

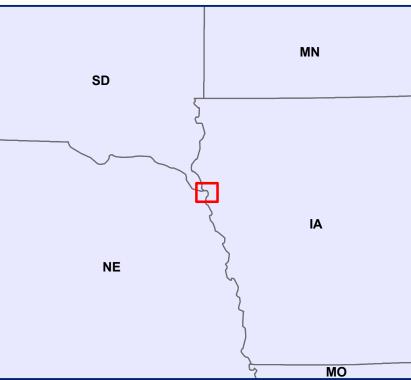






Author: CDC/NCCDPHP/DPH/ESB-GIS

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]
- <u>Validation of Multilevel Regression and Poststratification Methodology for Small Area Estimation of Health</u> 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 <a href="http://www.cdc.gov/500cities/">http://www.cdc.gov/500cities/</a>.

#### Contents

- 1. Introduction and Contents
- 2. Table: City data estimates for each measure
- 3. Unhealthy Behaviors
- 4. Map: Binge drinking prevalence among adults aged ≥18 years, 2014
- 5. Map: Current smoking among adults aged ≥18 years, 2014
- 6. Map: No leisure-time physical activity among adults aged ≥18 years, 2014
- 7. Map: Obesity among adults aged ≥18 years, 2014
- 8. Map: Sleeping less than 7 hours among adults aged ≥18 years, 2014
- 9. Health Outcomes
- 10. Map: Arthritis among adults aged ≥18 years, 2014
- 11. Map: Current asthma prevalence among adults aged ≥18 years, 2014
- 12. Map: High blood pressure among adults aged ≥18 years, 2013
- 13. Map: High cholesterol among adults aged ≥18 years who have been screened in the past 5 years, 2013
- 14. Map: Cancer among adults aged ≥18 years, 2014
- **15.** Map: Diagnosed diabetes among adults aged ≥18 years, 2014
- 16. Map: Chronic kidney disease among adults aged ≥18 years, 2014
- 17. Map: Chronic obstructive pulmonary disease among adults aged ≥18 years, 2014
- 18. Map: Coronary heart disease among adults aged ≥18 years, 2014
- 19. Map: Stroke among adults aged ≥18 years, 2014
- 20. Map: Mental health not good for ≥14 days among adults aged ≥18 years, 2014
- 21. Map: Physical health not good for ≥14 days among adults aged ≥18 years, 2014
- 22. Map: All teeth lost among adults aged ≥65 years, 2014
- 23. Use of Preventive Services
- 24. Map: Current lack of health insurance among adults aged 18-64 years, 2014
- 25. Map: Visits to doctor for routine checkup within the past year among adults aged ≥18 years, 2014
- 26. Map: Visits to dentist or dental clinic among adults aged ≥18 years, 2014
- 27. Map: Taking medicine for high blood pressure control among adults aged ≥18 years with high blood pressure, 2013
- 28. Map: Cholesterol screening among adults aged ≥18 years, 2013
- 29. Map: Mammography use among women aged 50-74 years, 2014
- 30. Map: Papanicolaou smear use among adult women aged 21-65 years, 2014
- 31. Map: Fecal occult blood test, sigmoidoscopy, or colonoscopy among adults aged 50-75 years, 2014
- 32. Map: Up-to-date on a core set of clinical preventive services (flu shot past year, pneumococcal shot ever, Map: colorectal cancer screening) among men aged ≥65 years, 2014
- 33. Map: Up-to-date on a core set of clinical preventive services (same as men plus mammogram past 2 years) among women aged ≥65 years, 2014

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).

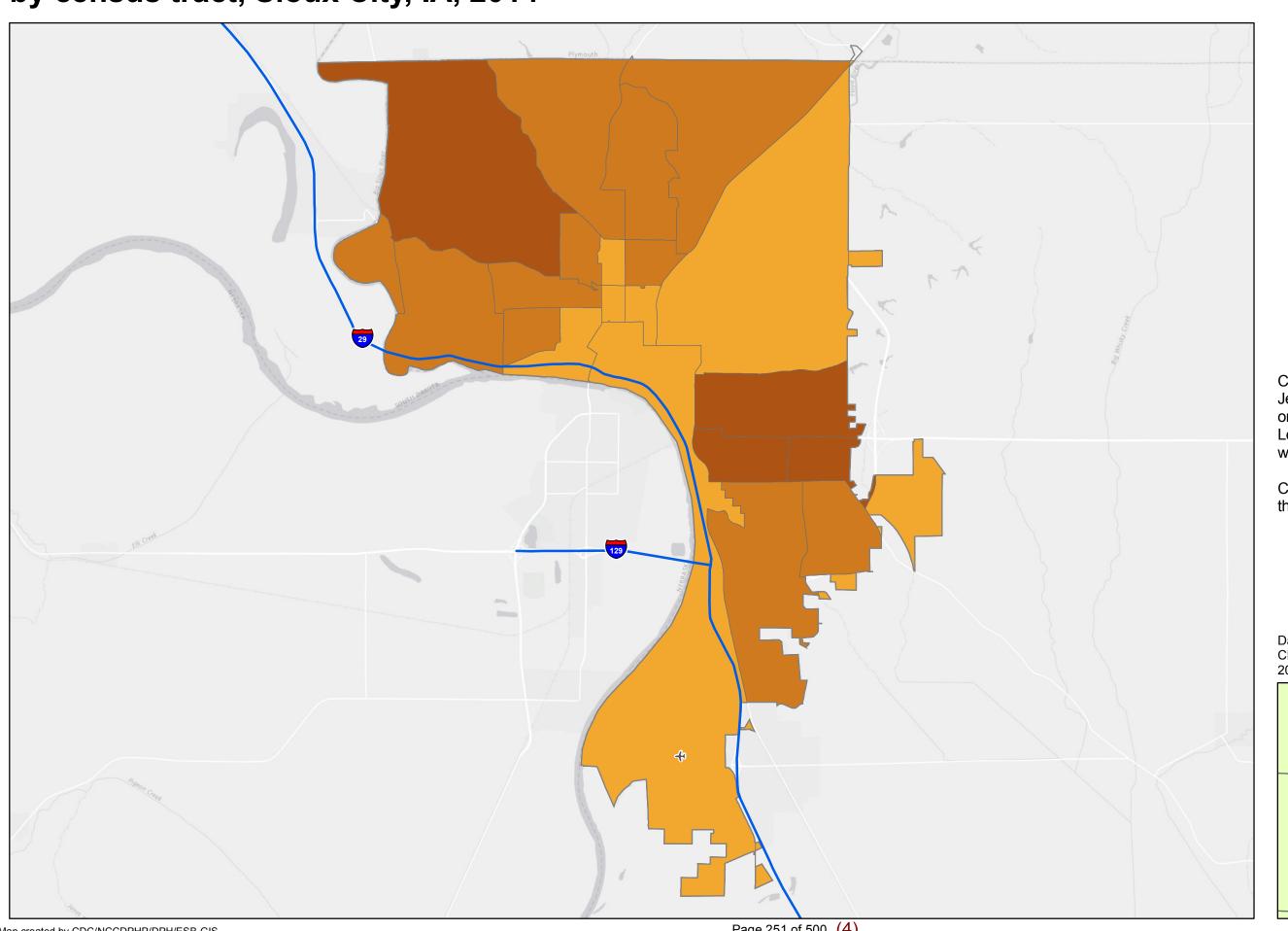
October 12, 2016

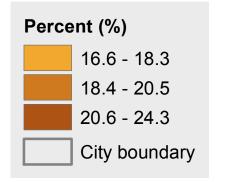
Moosuro		Crude			Age-Adjusted			State Age-Adjusted	US Age-Adjusted
	Measure	Prevalence	Low 95% CI H	ligh 95% CI	Prevalence Lo	ow 95% CI H	ligh 95% CI	Prevalence	Prevalence
Sioux City	IA	40.0	10.4	10.0	40.7	10.5	10.0	22.7	16.9
Binge drinking prevalence among adults aged >=18 years  Current smoking among adults aged >=18 years		19.6	19.4	19.8	19.7	19.5	19.8	22.7	16.8
Current smoking among adults aged >=18 years		22.4	21.8	23.1	22.8	22.1	23.4	19.3	17.7
No leisure-time physical activity among adults aged >=18 years		27.7	27.1	28.3	27.7	27.1	28.3	21.7	23.3
Obesity among adults aged >=18 years		34.8	34.5	35.1	35.5	35.2	35.9	31.0	28.7
Sleeping less than 7 hours among adults aged >=18 years		32.7	32.4	33.1	33.2	32.8	33.5	31.2	35.1
Arthritis among adults aged >=18 years		24.7	24.4	25.0	24.2	24.0	24.5	23.7	23.5
Current asthma prevalence among adults aged >=18 years		8.8	8.6	8.9	8.7	8.6	8.9	8.5	8.8
High blood pressure among adults aged >=18 years		30.7	30.5	31.0	30.3	30.1	30.6	29.0	30.2
High cholesterol among adults aged >=18 years who have been screened in the past 5 years		40.6	40.2	40.9	35.3	35.1	35.6	35.8	33.2
Cancer among adults aged >=18 years		6.0	6.0	6.1	5.9	5.9	6.0	6.0	5.9
Diagnosed diabetes among adults aged >=18 years		9.8	9.6	10.0	9.7	9.5	9.8	8.5	9.4
Chronic kidney disease among adults aged >=18 years		2.7	2.6	2.7	2.6	2.6	2.7	2.5	2.6
Chronic obstructive pulmonary disease among adults aged >=18 years		6.5	6.3	6.6	6.3	6.2	6.5	5.2	6.1
Coronary heart disease among adults aged >=18 years		6.2	6.1	6.4	6.0	5.9	6.2	5.5	6.0
Stroke among adults aged >=18 years		3.0	2.9	3.1	2.9	2.9	3.0	2.4	2.8
Mental health not good for >=14 days among adults aged >=18 years		10.8	10.6	11.0	10.8	10.6	11.1	9.2	11.5
Physical health not good for >=14 days among adults aged >=18 years		11.7	11.5	12.0	11.7	11.4	11.9	9.6	11.6
All teeth lost among adults aged >=65 years		16.8	15.5	18.2	16.5	15.4	17.8	15.0	15.4
Current lack of health insurance among adults aged 18-64 years		14.9	14.4	15.4	14.1	13.7	14.6	10.0	14.9
/isits to doctor for routine checkup within the past year among adults aged >=18 rears		71.2	70.9	71.4	70.9	70.7	71.1	69.2	68.7
/isits to dentist or dental clinic among adults aged >=18 years		63.2	62.4	64.1	62.9	62.1	63.7	69.2	64.1
aking medicine for high blood pressure control among adults aged >=18 years with igh blood pressure		76.9	76.7	77.2	60.6	60.4	60.9	58.8	58.2
holesterol screening among adults aged >=18 years		69.1	68.5	69.6	69.6	69.1	70.2	74.2	74.8
dammography use among women aged 50-74 years		77.0	76.1	77.8	77.0	76.1	77.8	80.5	75.5
apanicolaou smear use among adult women aged 21-65 years		79.4	78.8	80.0	80.3	79.7	80.9	85.0	81.1
Fecal occult blood test, sigmoidoscopy, or colonoscopy among adults aged 50-75 years		61.7	60.8	62.5	62.9	62.1	63.7	65.1	64.0
p to date on a core set of clinical preventive services (flu shot past year, neumococcal shot ever, colorectal cancer screening) among men aged >=65 years		41.6	40.0	43.2	38.4	36.9	40.0	37.9	32.9
Up to date on a core set of clinical preventive services (same as men plus nammogram past 2 years) among women aged >=65 years		43.0	41.6	44.5	33.7	32.5	35.0	34.7	30.7

Friday, October 14, 2016 Page 251 of 500

# Unhealthy Behaviors

## Binge drinking prevalence among adults aged ≥18 years by census tract, Sioux City, IA, 2014





## 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.



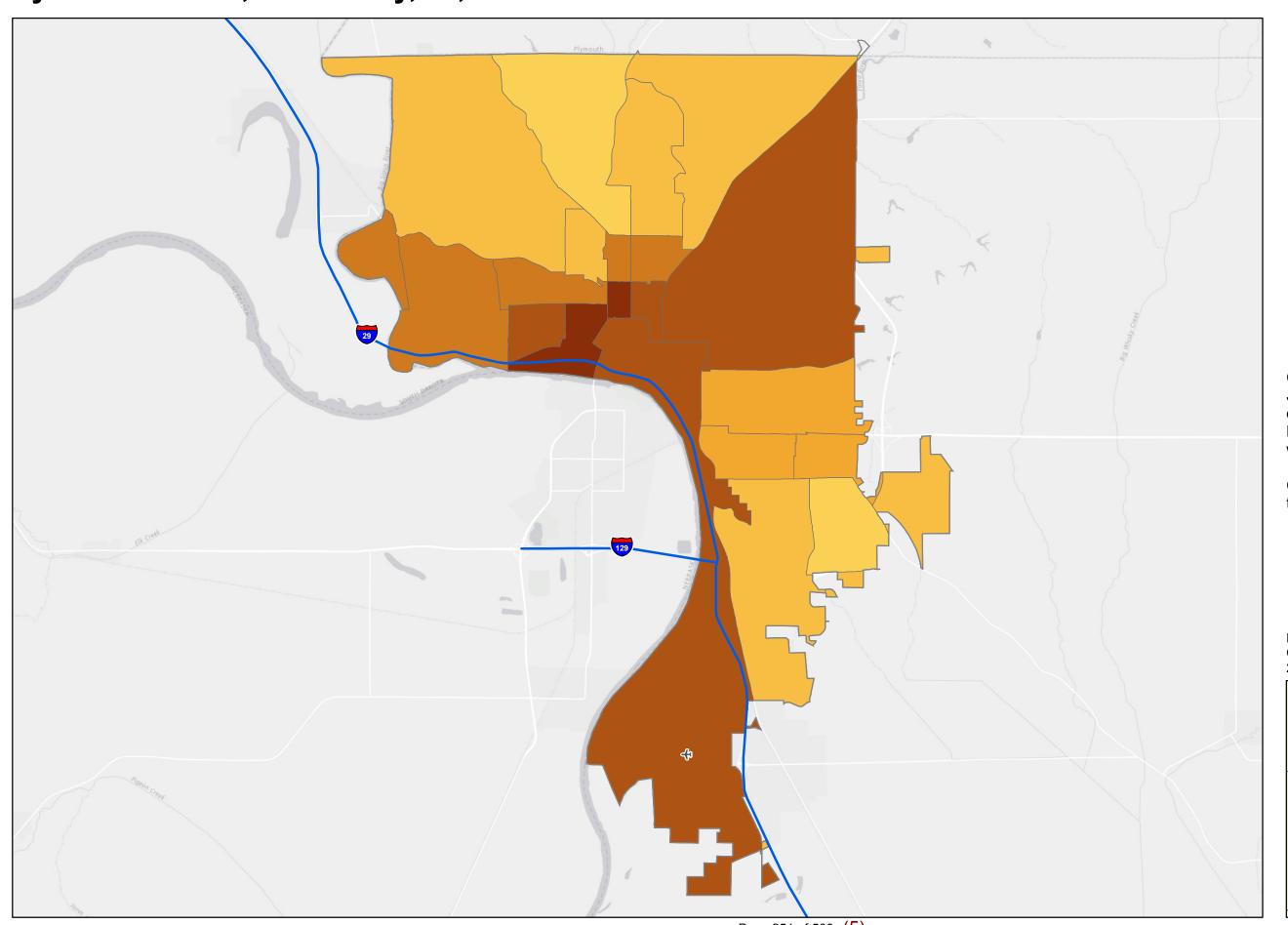
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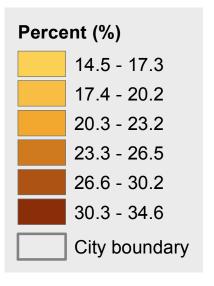


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Page 251 of 500 (4) Map created by CDC/NCCDPHP/DPH/ESB-GIS

## Current smoking among adults aged ≥18 years by census tract, Sioux City, IA, 2014

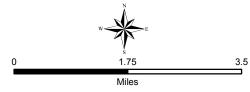




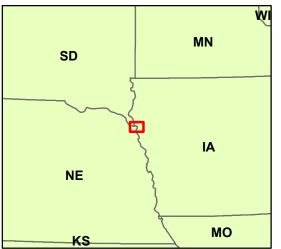
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Census tracts with population less than 50 were excluded from the map.



Data sources: CDC BRFSS 2014, US Census Bureau 2010 Census, ACS 2010-2014,

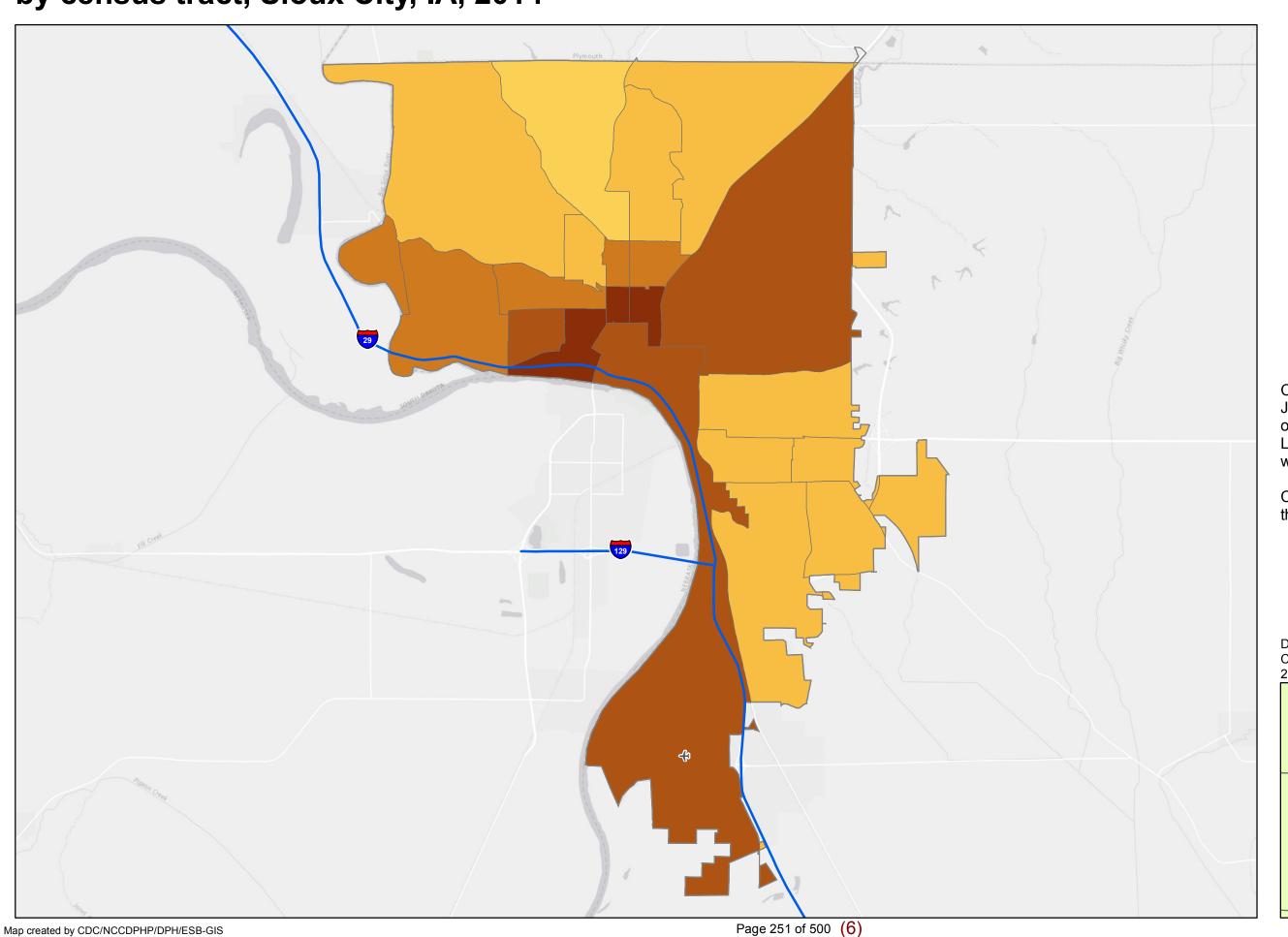


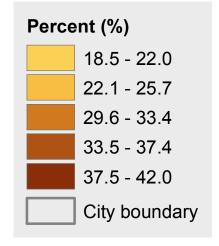
Date: 3/23/2016

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

Page 251 of 500 (5)

## No leisure-time physical activity among adults aged ≥18 years by census tract, Sioux City, IA, 2014

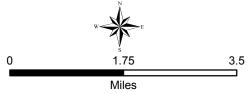




## Classification:

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 map.

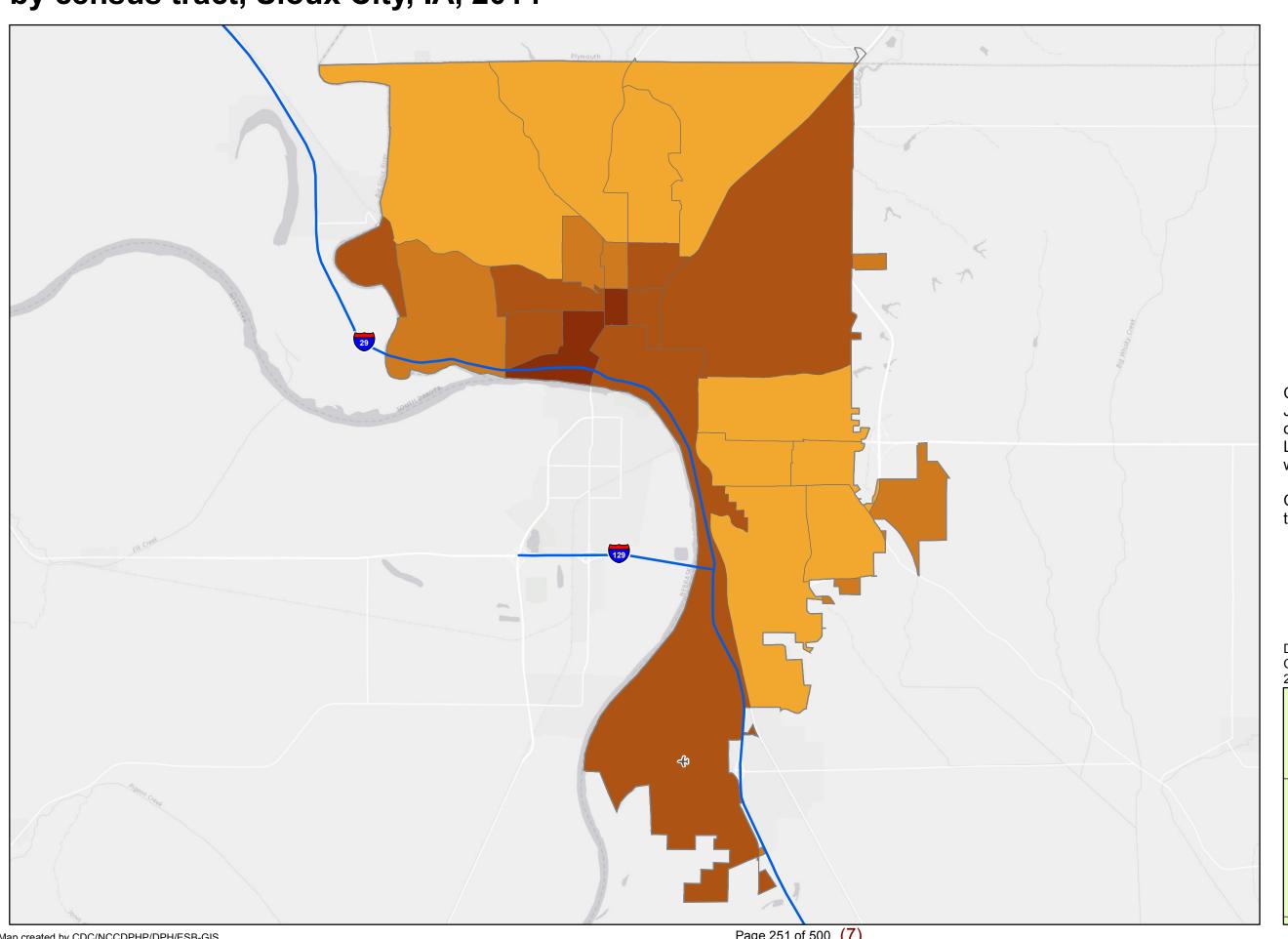


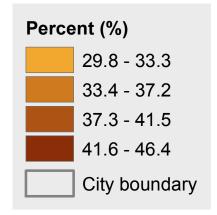
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Date: 3/24/2016

## Obesity among adults aged ≥18 years by census tract, Sioux City, IA, 2014

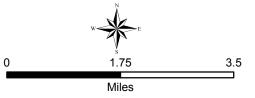




## Classification:

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

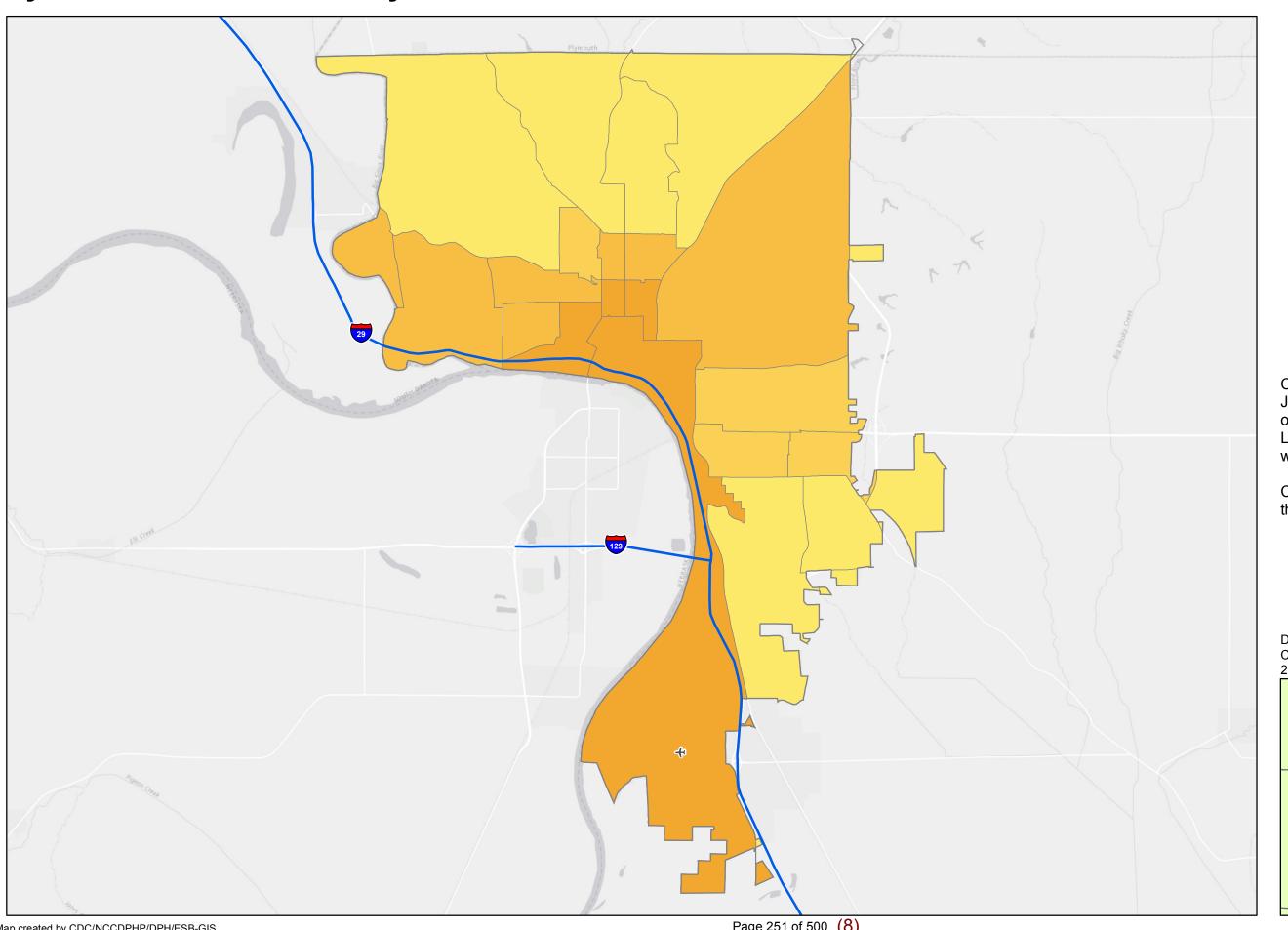


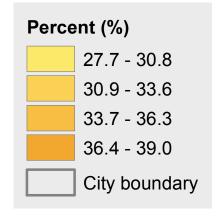
Data sources: CDC BRFSS 2014, US Census Bureau 2010 Census, ACS 2010-2014,



Page 251 of 500 (7) Map created by CDC/NCCDPHP/DPH/ESB-GIS

## Sleeping less than 7 hours among adults aged ≥18 years by census tract, Sioux City, IA, 2014





## 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 map.



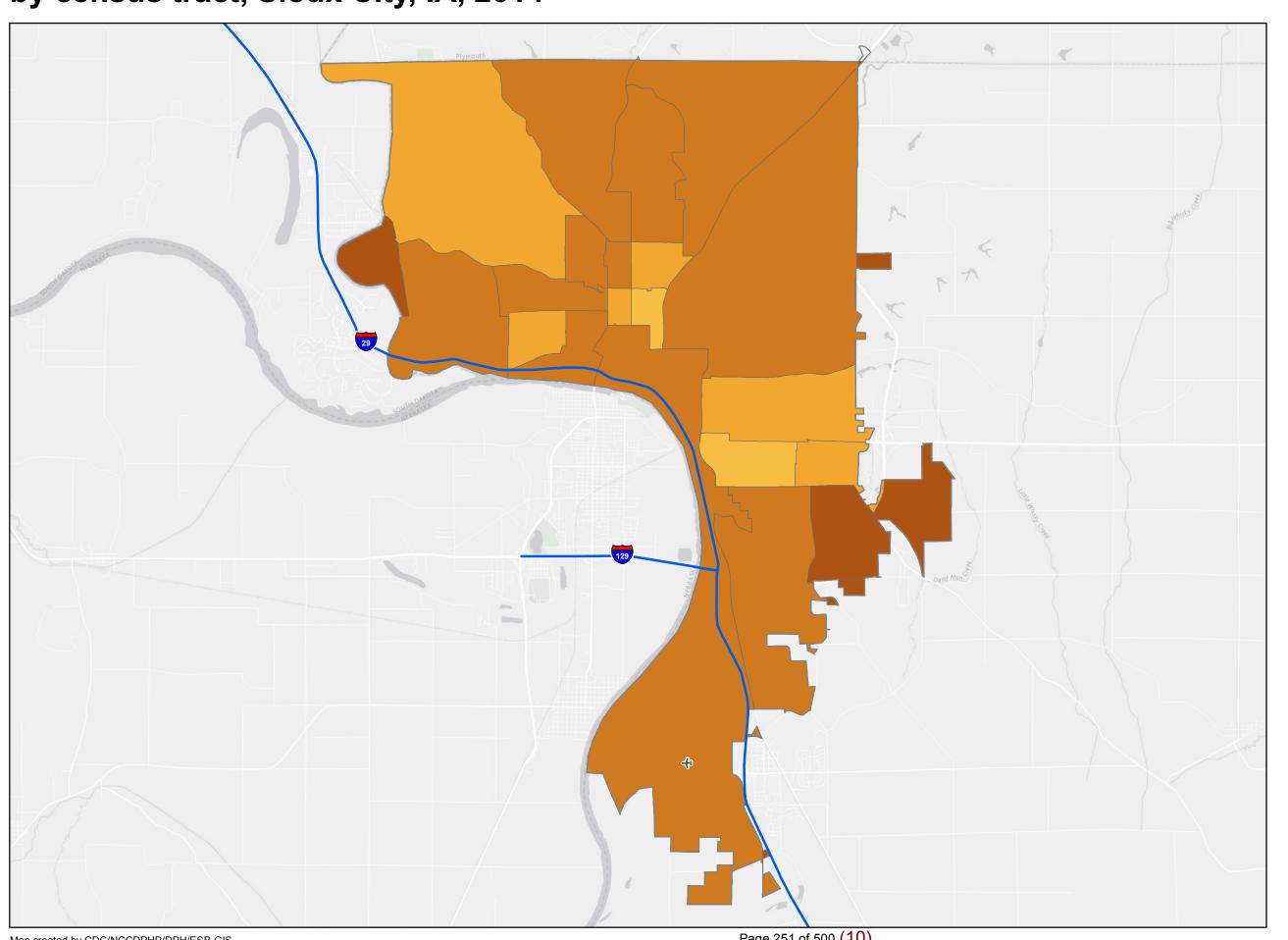
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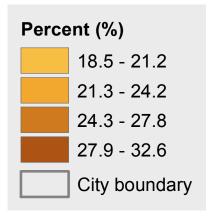


Page 251 of 500 (8) Map created by CDC/NCCDPHP/DPH/ESB-GIS

## Health Outcomes

## Arthritis among adults aged ≥18 years by census tract, Sioux City, IA, 2014





## 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.

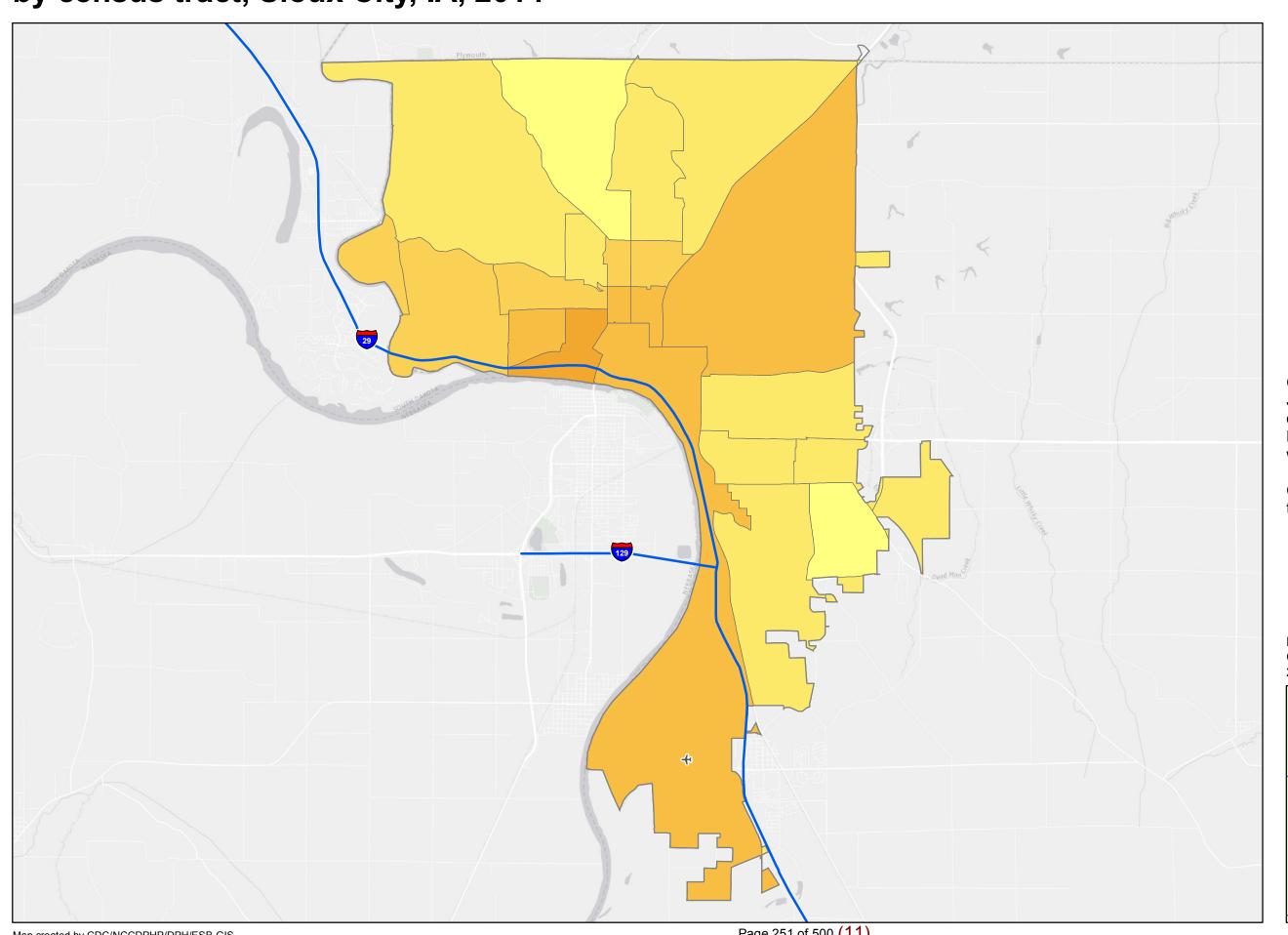


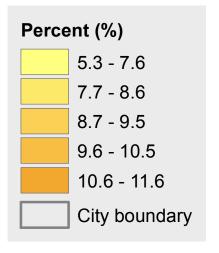
Data sources: CDC BRFSS 2014, US Census Bureau 2010 Census, ACS 2010-2014.



Page 251 of 500 (10) Map created by CDC/NCCDPHP/DPH/ESB-GIS Date: 2/9/2017

## Current asthma prevalence among adults aged ≥18 years by census tract, Sioux City, IA, 2014





## 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.



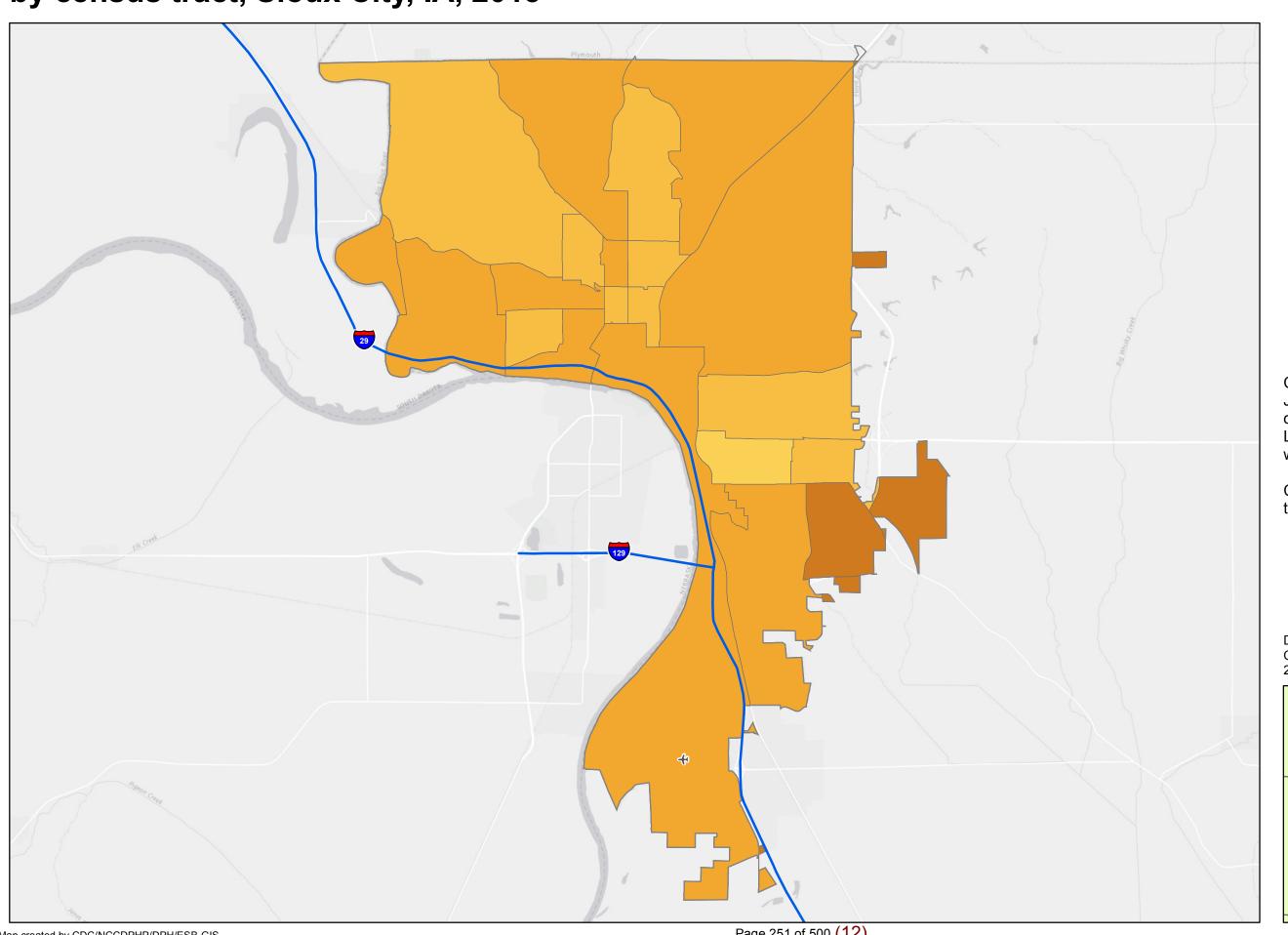
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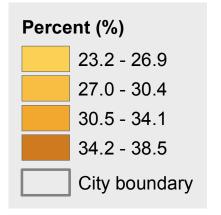


Date: 10/14/2016

Page 251 of 500 (11) Map created by CDC/NCCDPHP/DPH/ESB-GIS

## High blood pressure among adults aged ≥18 years by census tract, Sioux City, IA, 2013





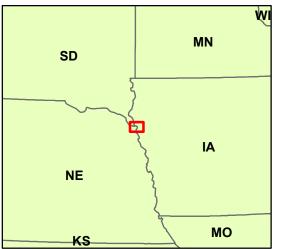
## Classification:

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

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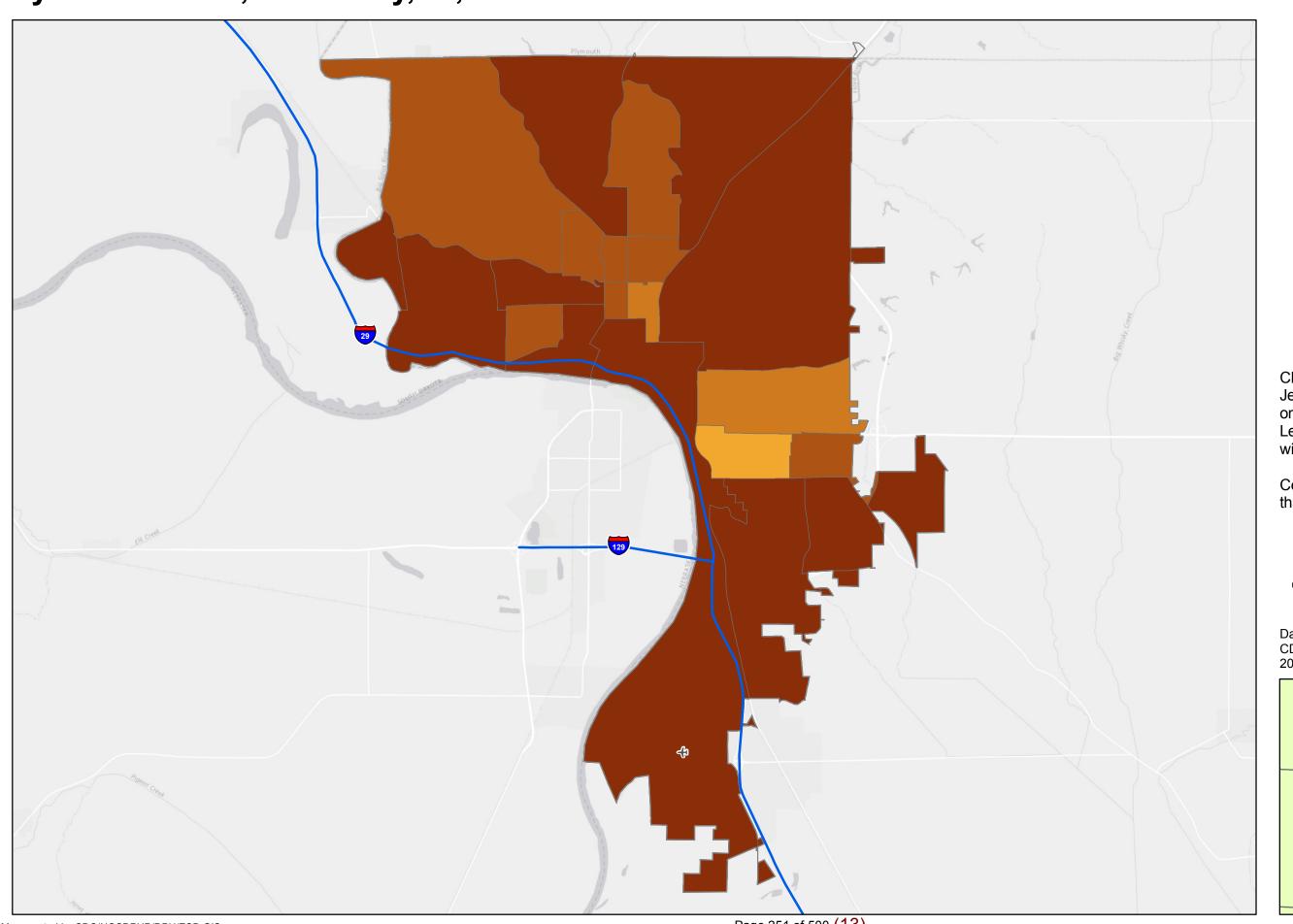


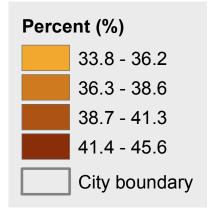
Data sources: CDC BRFSS 2013, US Census Bureau 2010 Census, ACS 2009-2013.



Page 251 of 500 (12) Map created by CDC/NCCDPHP/DPH/ESB-GIS Date: 4/1/2016

## High cholesterol among adults aged ≥18 years who have been screened in the past five years by census tract, Sioux City, IA, 2013





#### 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 2013, US Census Bureau 2010 Census, ACS 2009-2013.

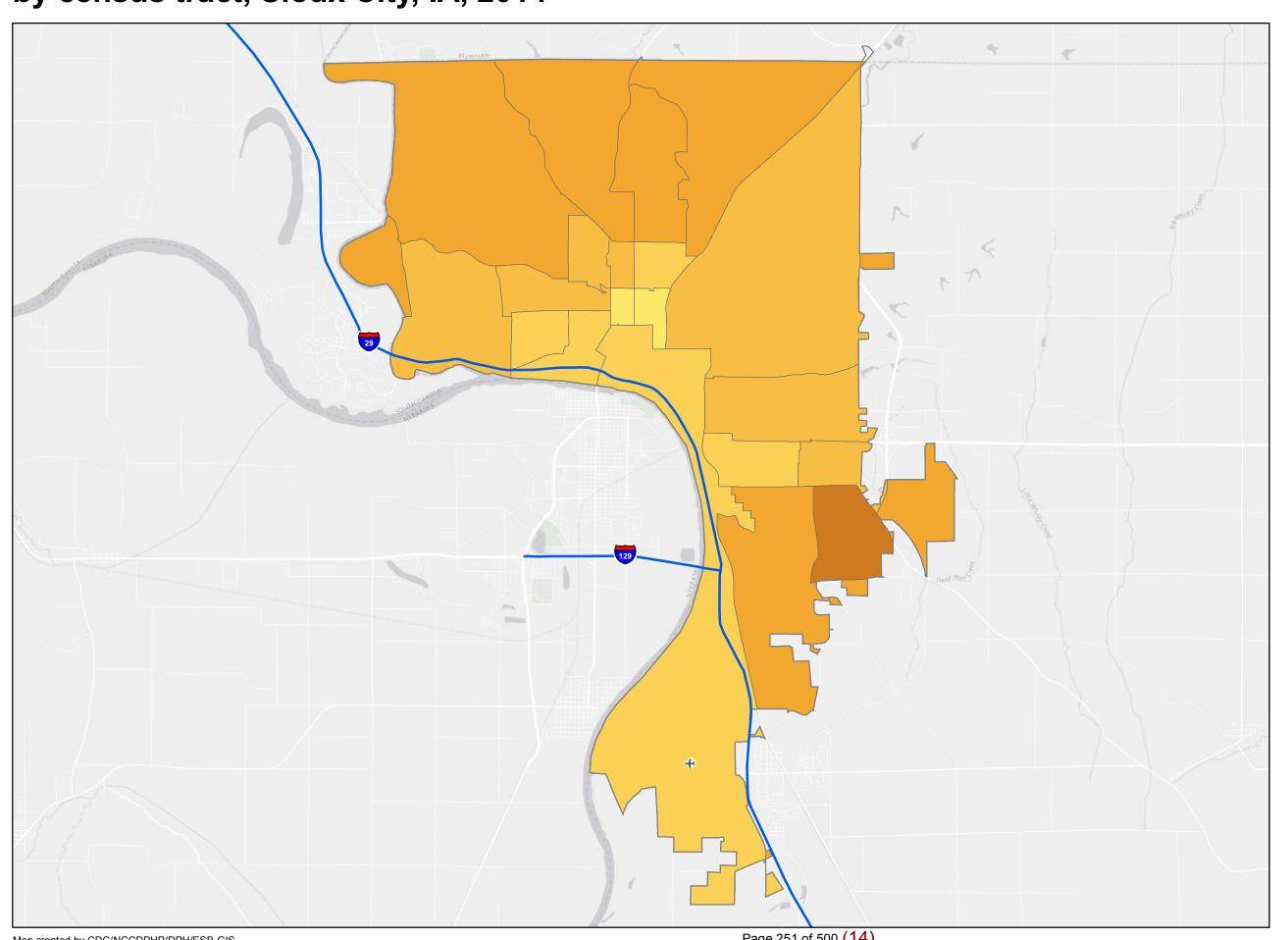


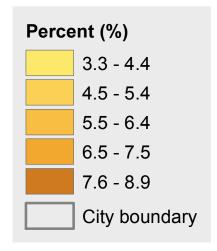
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Page 251 of 500 (13)

Date: 5/2/2016

## Cancer among adults aged ≥18 years by census tract, Sioux City, IA, 2014

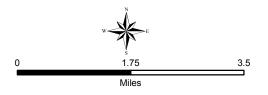




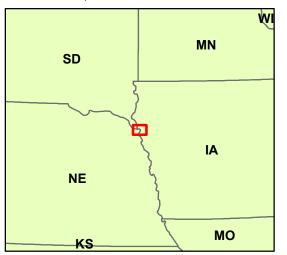
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Jenks natural breaks (9 classes) based on data for all 500 cities' census tracts. Legend depicts only those data classes within this map extent.

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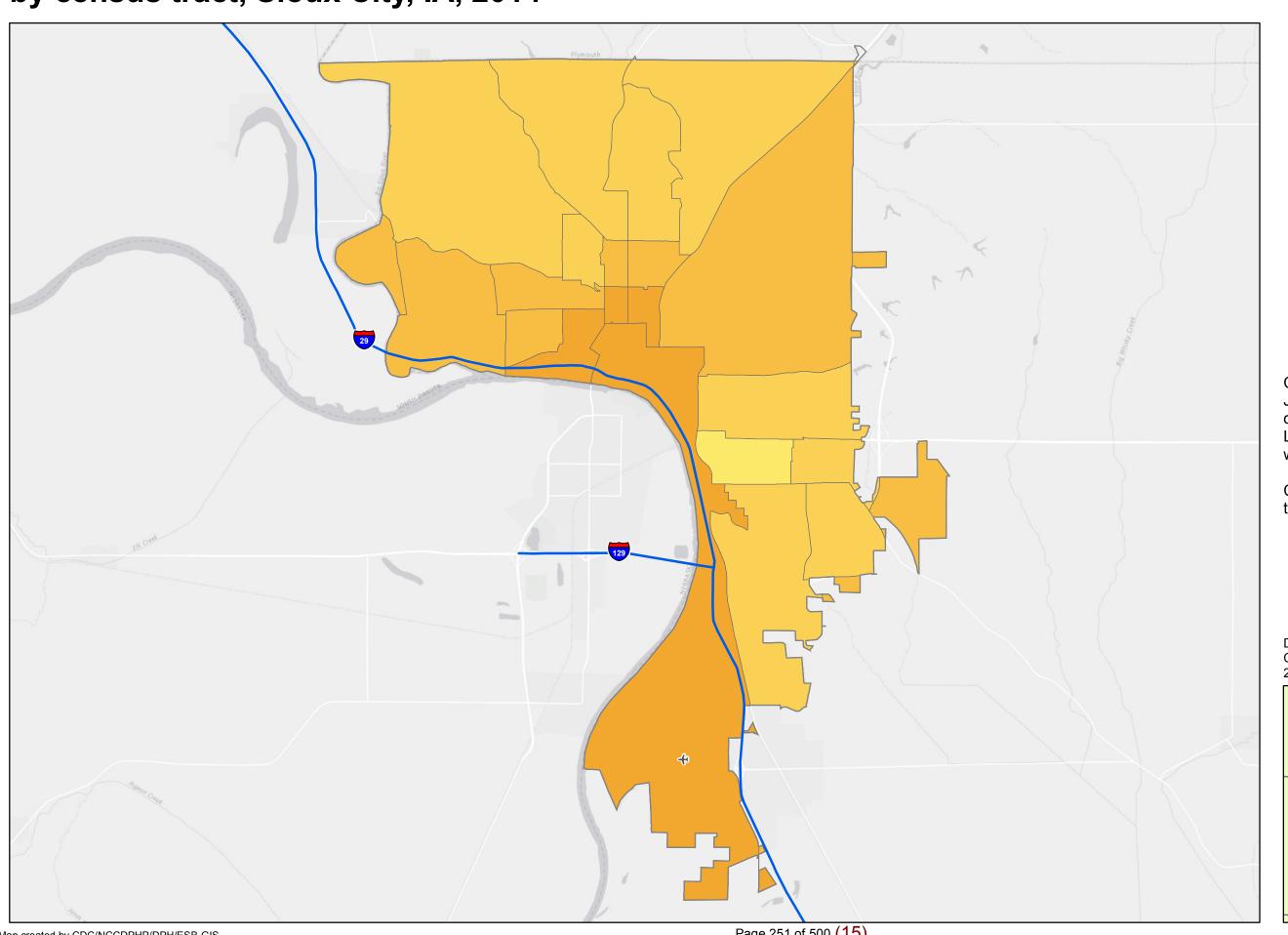


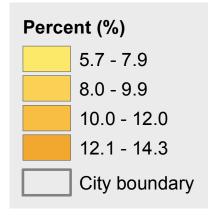
Data sources: CDC BRFSS 2014, US Census Bureau 2010 Census, ACS 2010-2014.



Page 251 of 500 (14) Map created by CDC/NCCDPHP/DPH/ESB-GIS Date: 2/14/2017

## Diagnosed diabetes among adults aged ≥18 years by census tract, Sioux City, IA, 2014





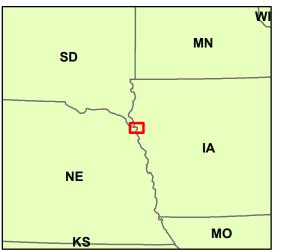
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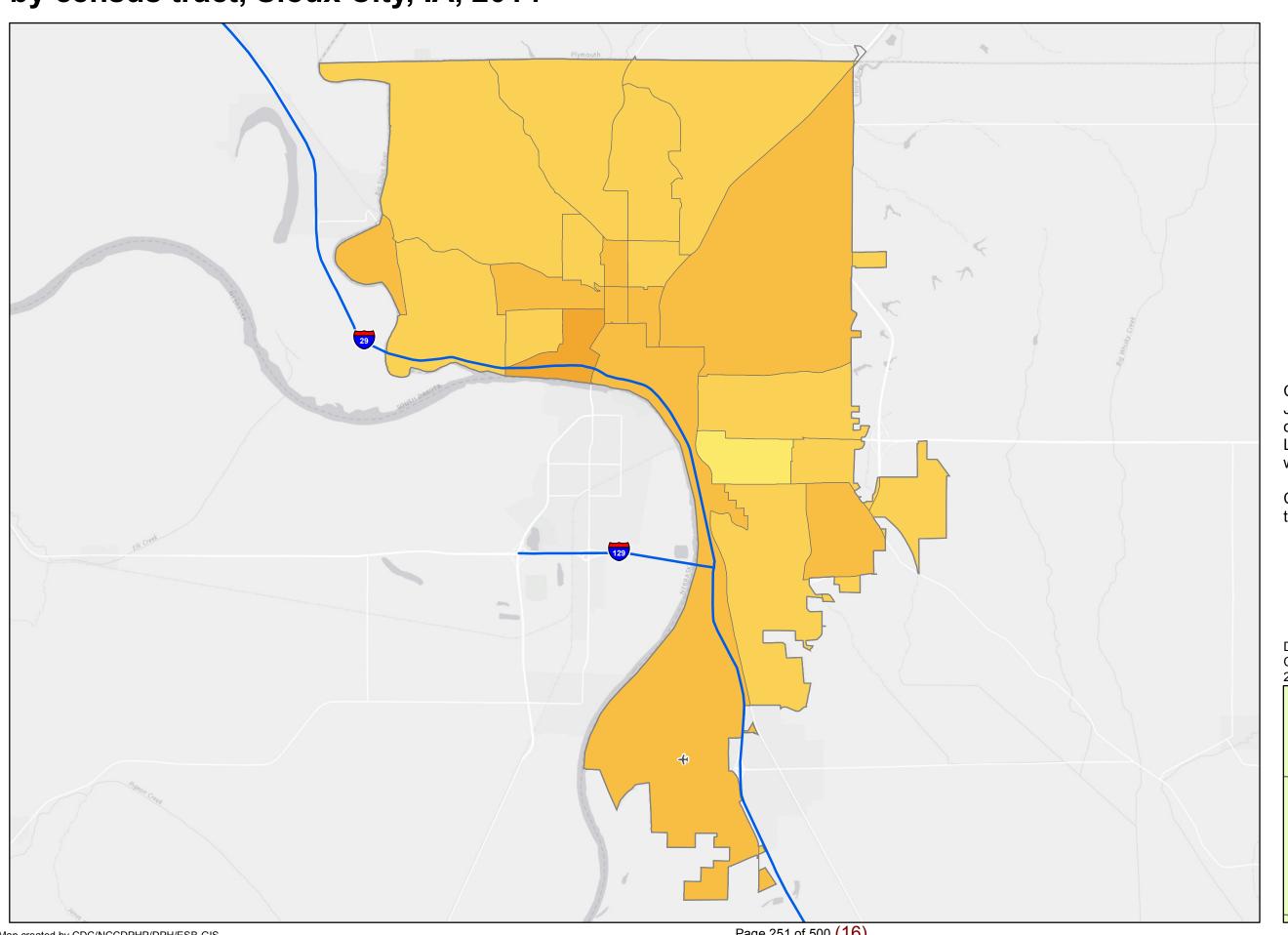
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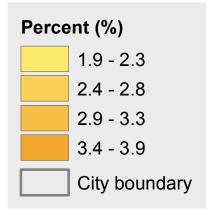


Date: 3/24/2016

Page 251 of 500 (15) Map created by CDC/NCCDPHP/DPH/ESB-GIS

## Chronic kidney disease among adults aged ≥18 years by census tract, Sioux City, IA, 2014

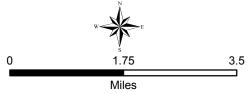




## Classification:

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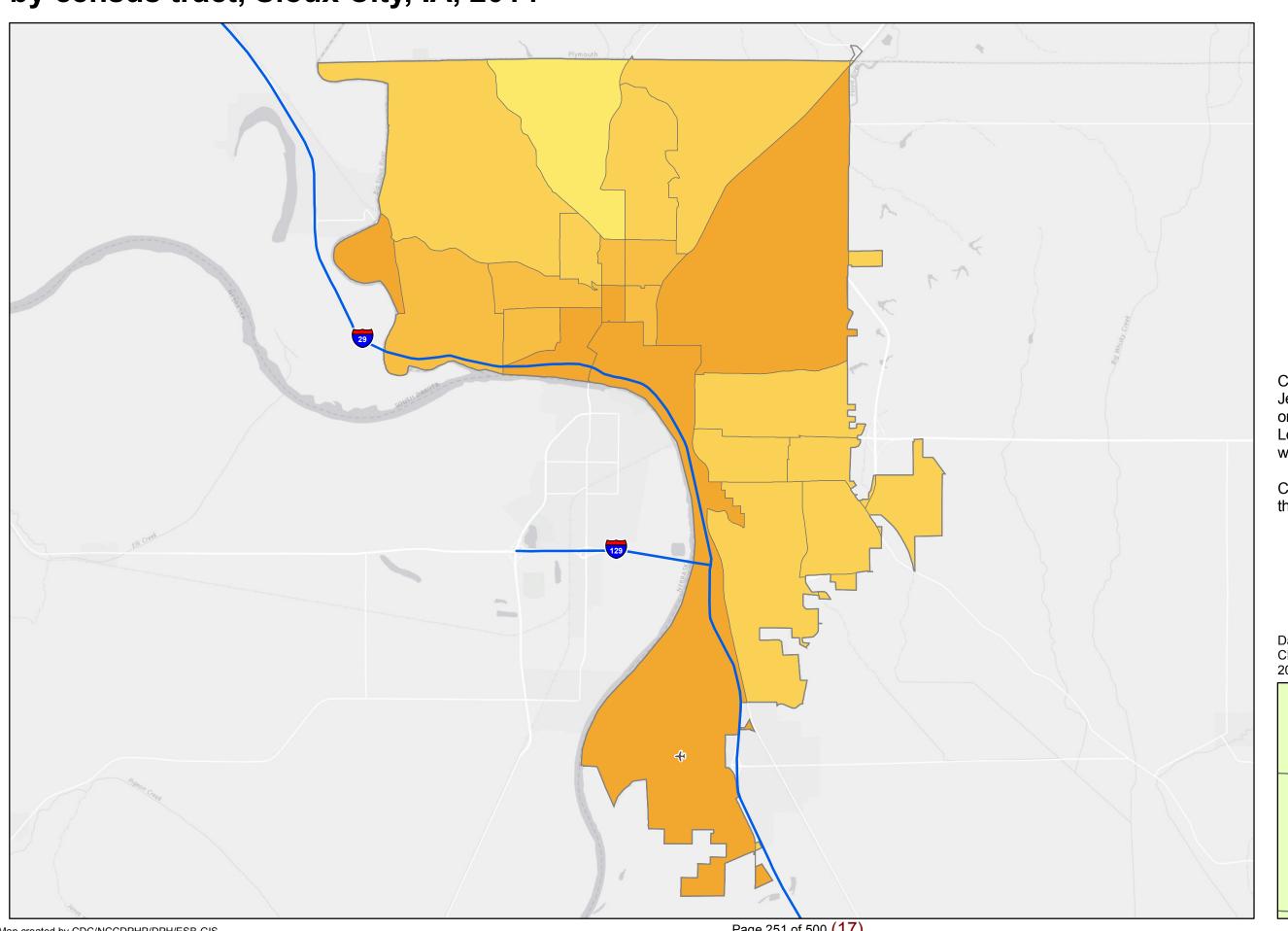
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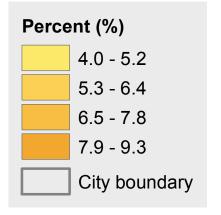


Date: 3/24/2016

Page 251 of 500 (16) Map created by CDC/NCCDPHP/DPH/ESB-GIS

## Chronic obstructive pulmonary disease among adults aged ≥18 years by census tract, Sioux City, IA, 2014

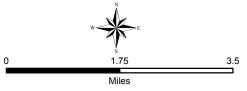




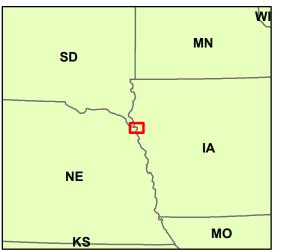
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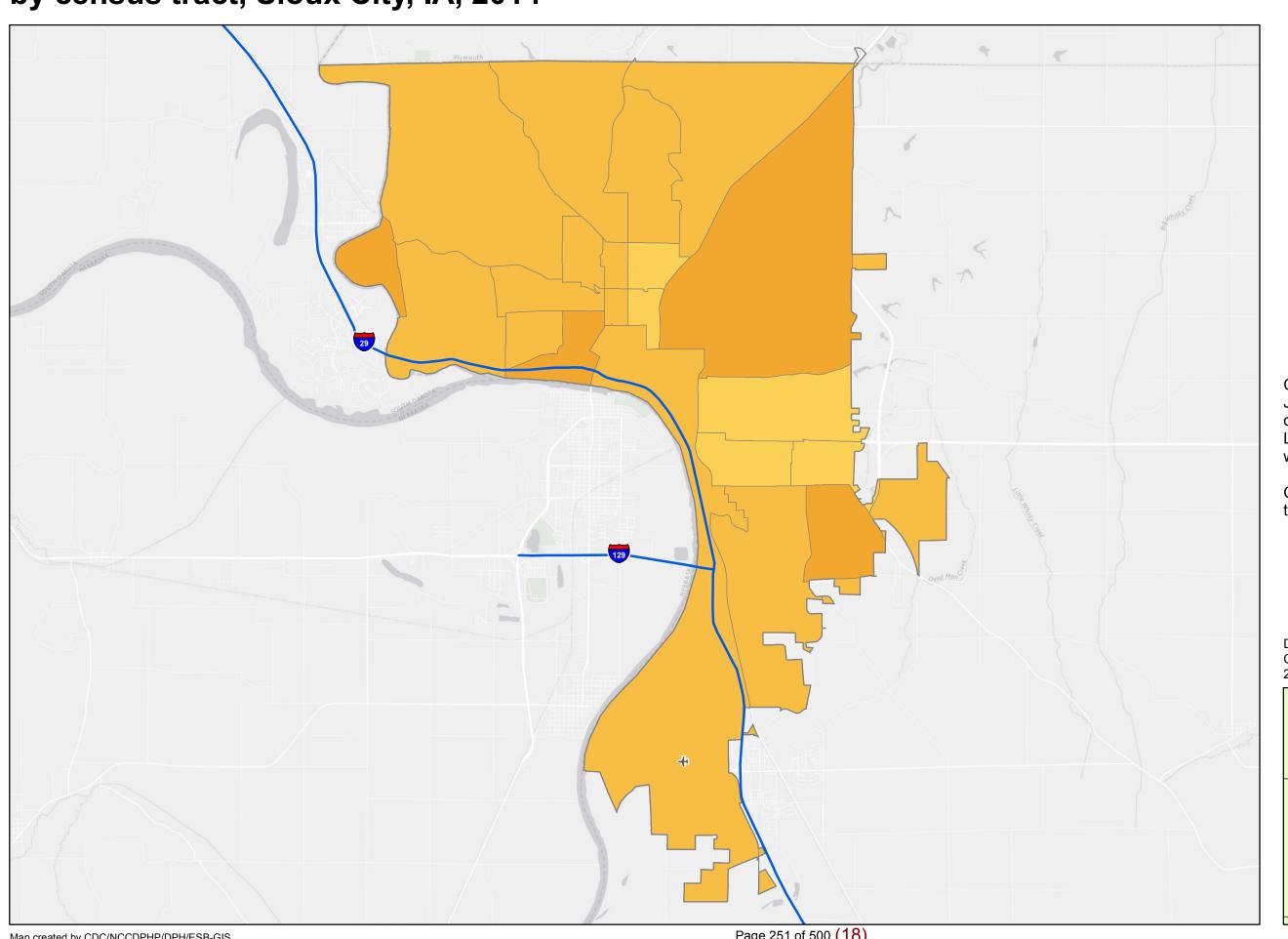
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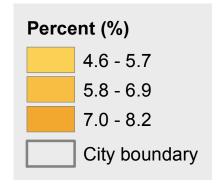


Date: 3/13/2016

Page 251 of 500 (17) Map created by CDC/NCCDPHP/DPH/ESB-GIS

## Coronary heart disease among adults aged ≥18 years by census tract, Sioux City, IA, 2014

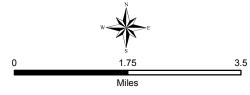




## Classification:

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.



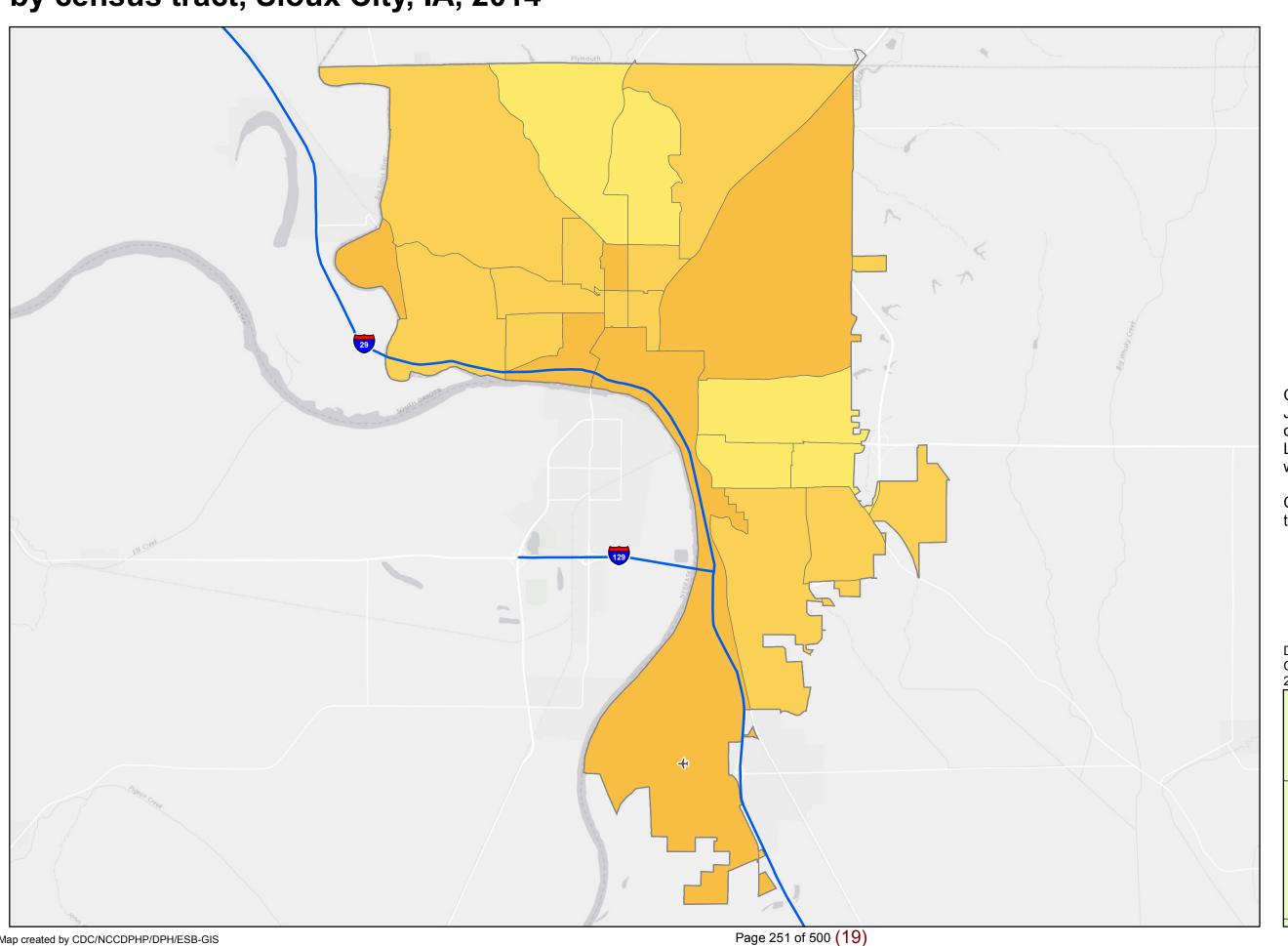
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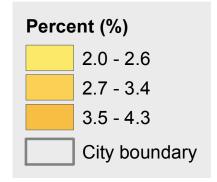


Date: 2/15/2017

Page 251 of 500 (18) Map created by CDC/NCCDPHP/DPH/ESB-GIS

## Stroke among adults aged ≥18 years by census tract, Sioux City, IA, 2014





## 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 map.



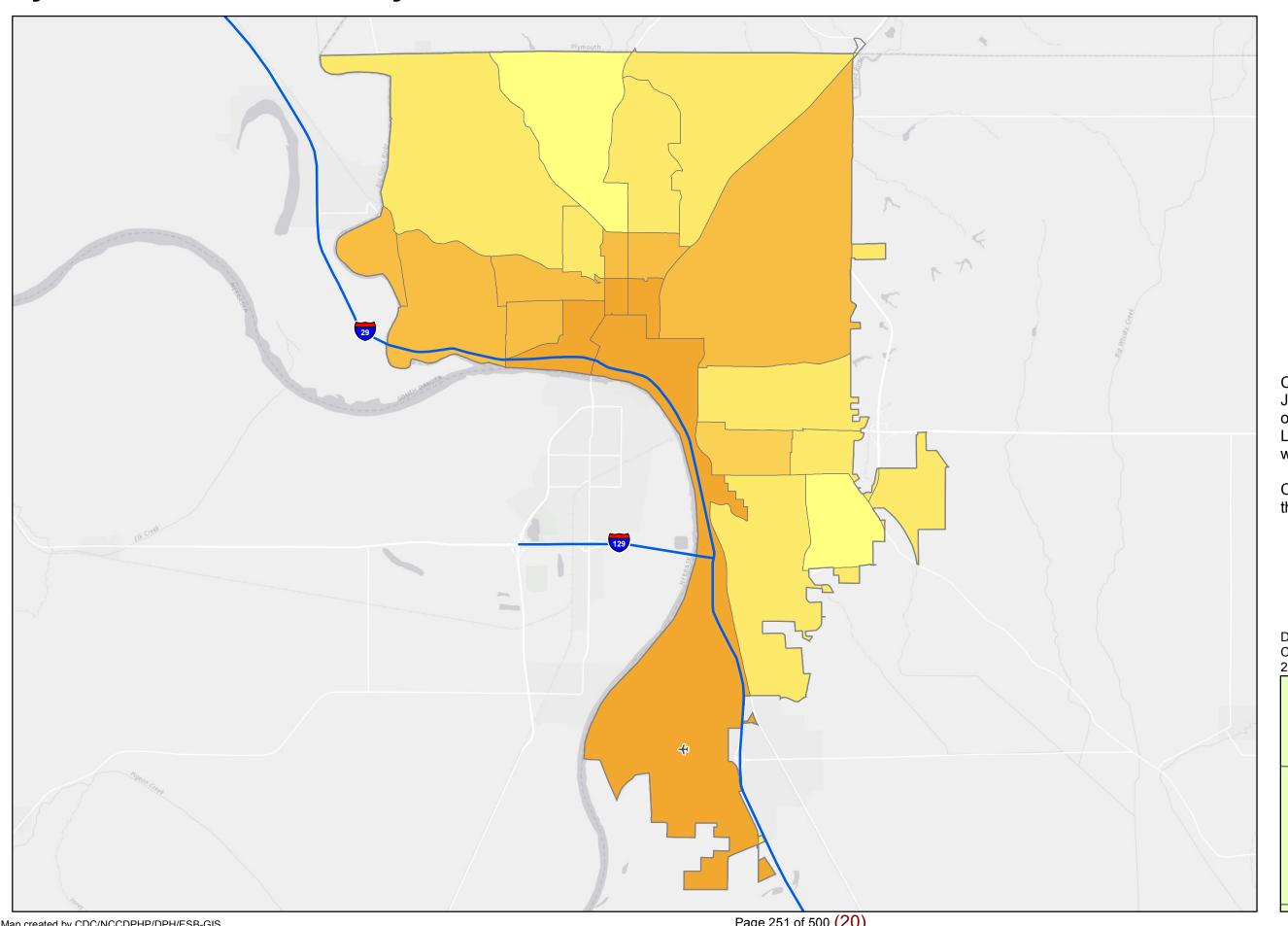
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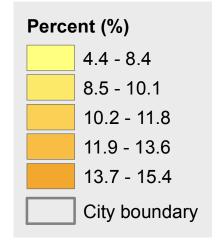


Date: 3/29/2016

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

## Mental health not good for ≥14 days among adults aged ≥18 years by census tract, Sioux City, IA, 2014





## 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 map.

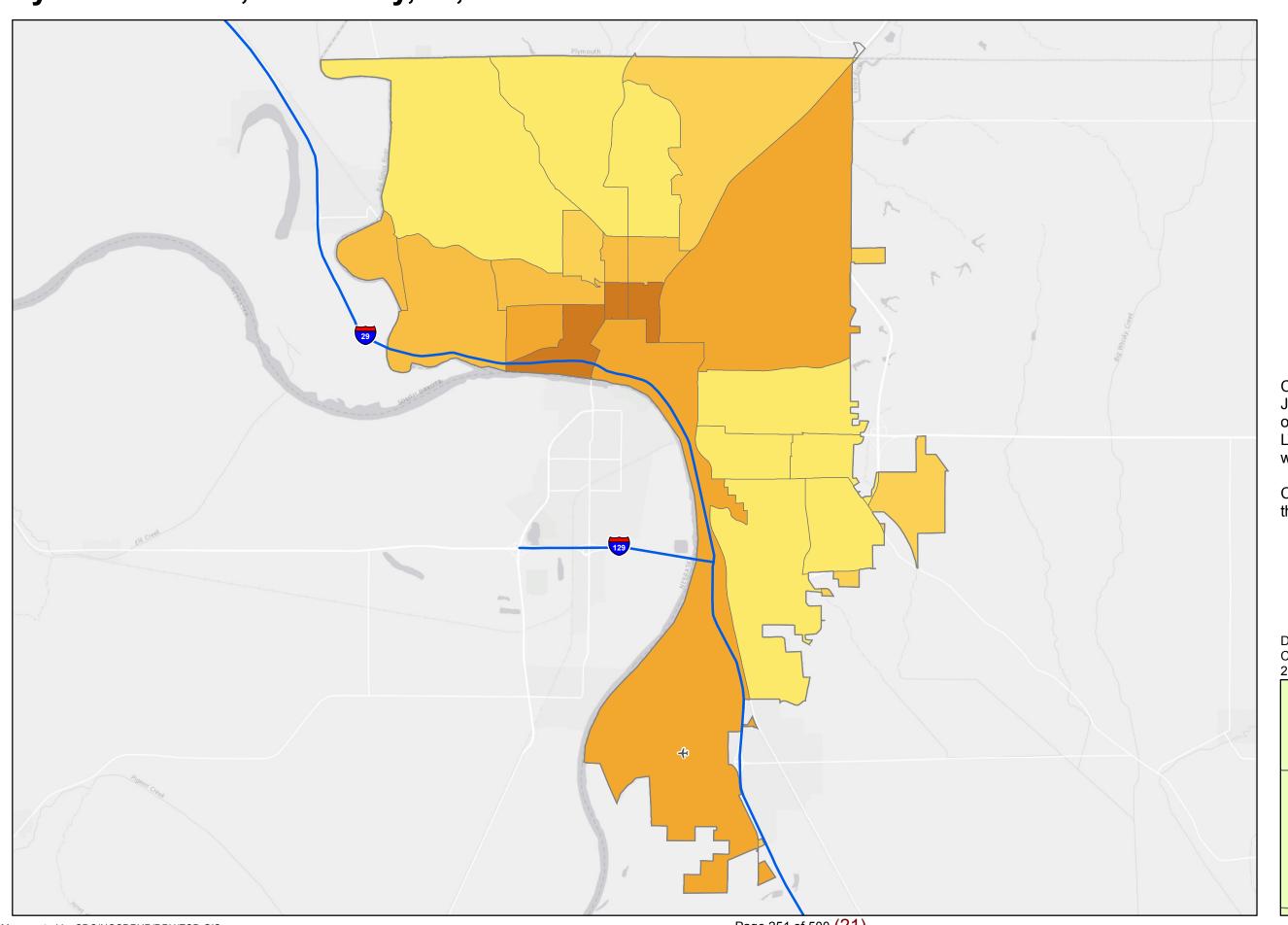


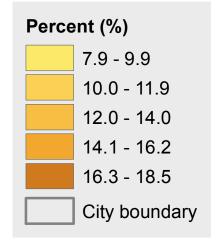
Data sources: CDC BRFSS 2014, US Census Bureau 2010 Census, ACS 2010-2014,



Page 251 of 500 (20) Map created by CDC/NCCDPHP/DPH/ESB-GIS Date: 3/25/2016

## Physical health not good for ≥14 days among adults aged ≥18 years by census tract, Sioux City, IA, 2014

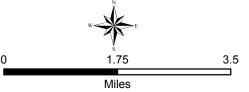




## Classification:

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 map.

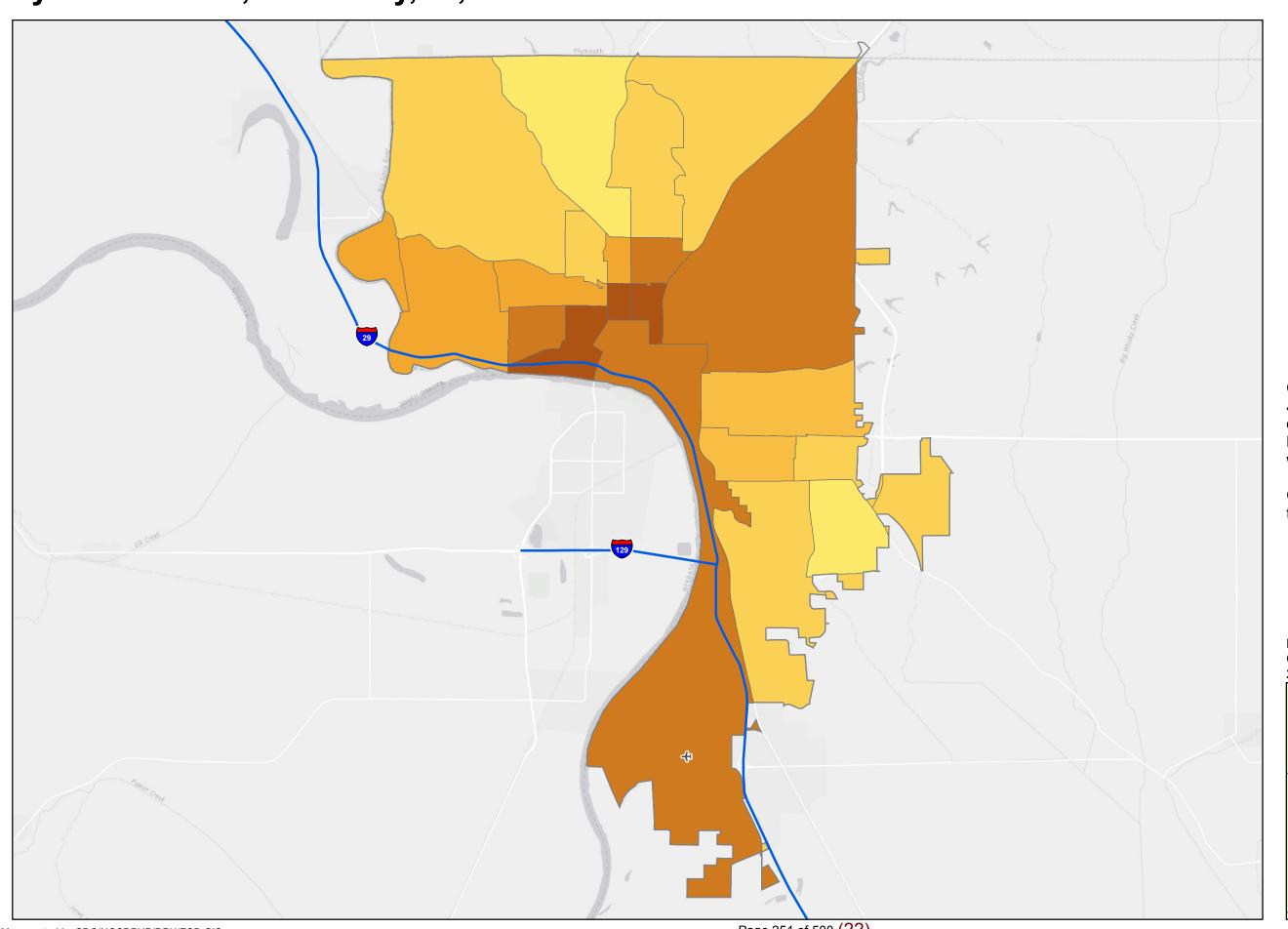


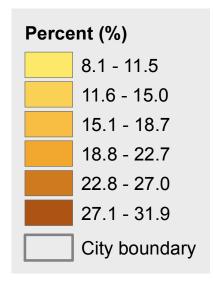
Data sources: CDC BRFSS 2014, US Census Bureau 2010 Census, ACS 2010-2014,



Page 251 of 500 (21) Map created by CDC/NCCDPHP/DPH/ESB-GIS

## All teeth lost among adults aged ≥65 years by census tract, Sioux City, IA, 2014





## 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 map.



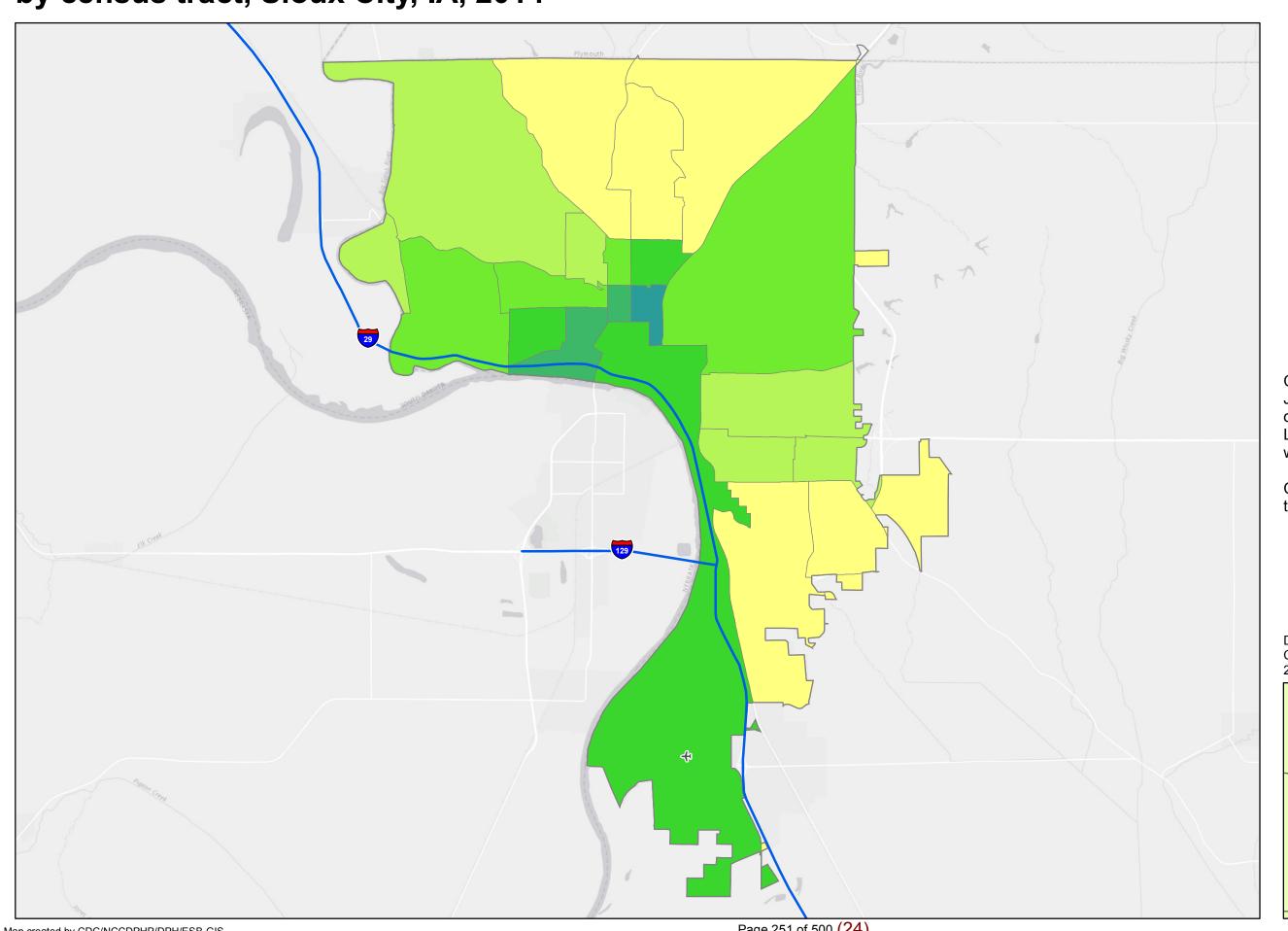
Data sources: CDC BRFSS 2014, US Census Bureau 2010 Census, ACS 2010-2014,

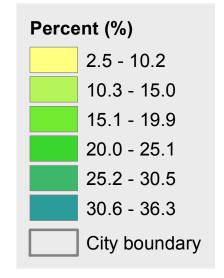


Page 251 of 500 (22) Map created by CDC/NCCDPHP/DPH/ESB-GIS

## Use of Preventive Services

## Current lack of health insurance among adults aged 18-64 years by census tract, Sioux City, IA, 2014

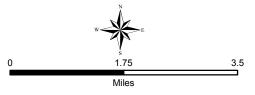




## Classification:

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.

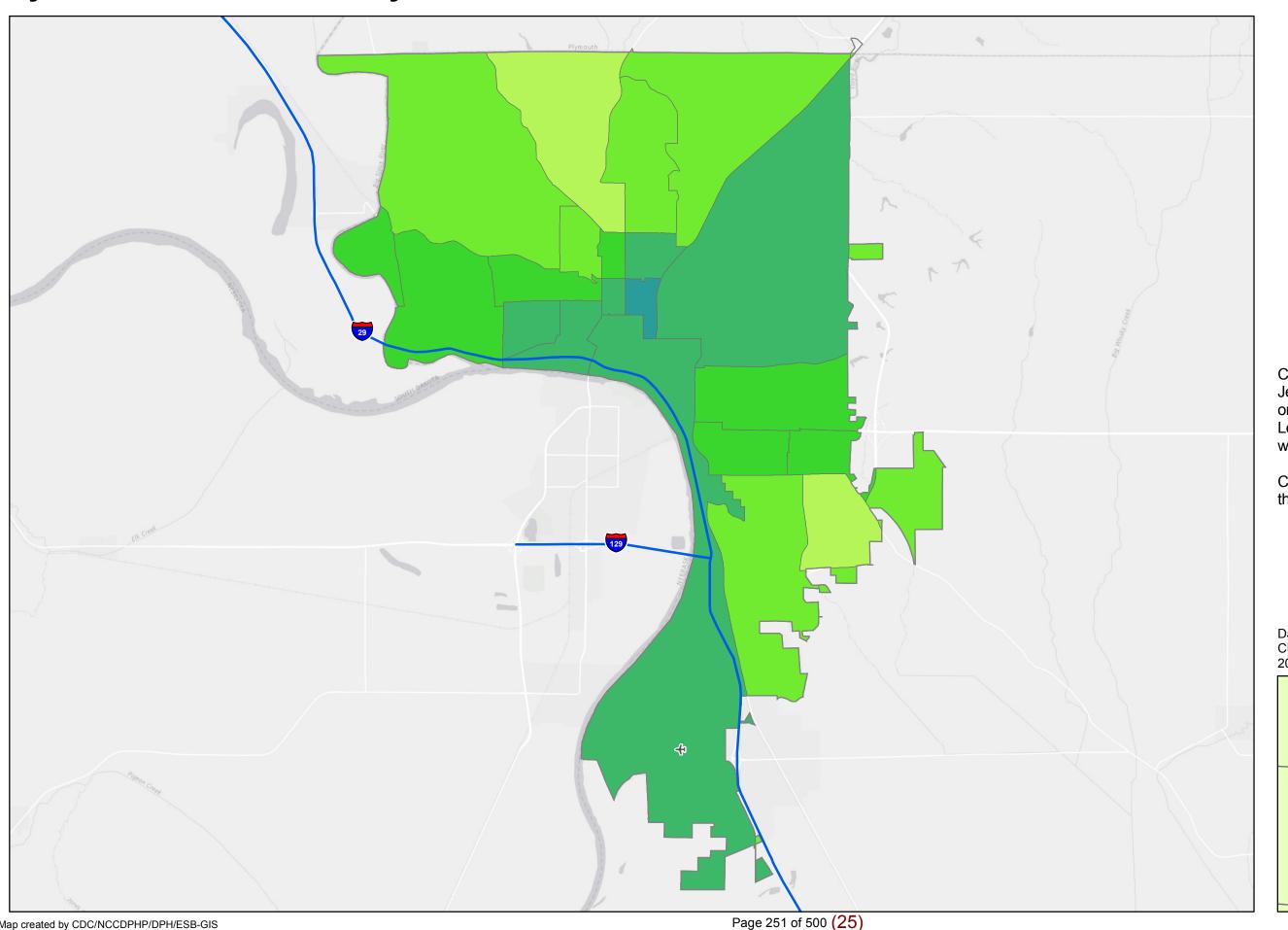


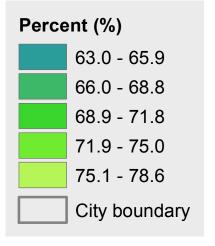
Data sources: CDC BRFSS 2014, US Census Bureau 2010 Census, ACS 2010-2014,



Page 251 of 500 (24) Map created by CDC/NCCDPHP/DPH/ESB-GIS Date: 3/15/2016

## Visits to doctor for routine checkup within the past year among adults aged ≥18 years by census tract, Sioux City, IA, 2014

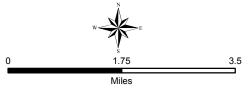




#### Classification:

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.



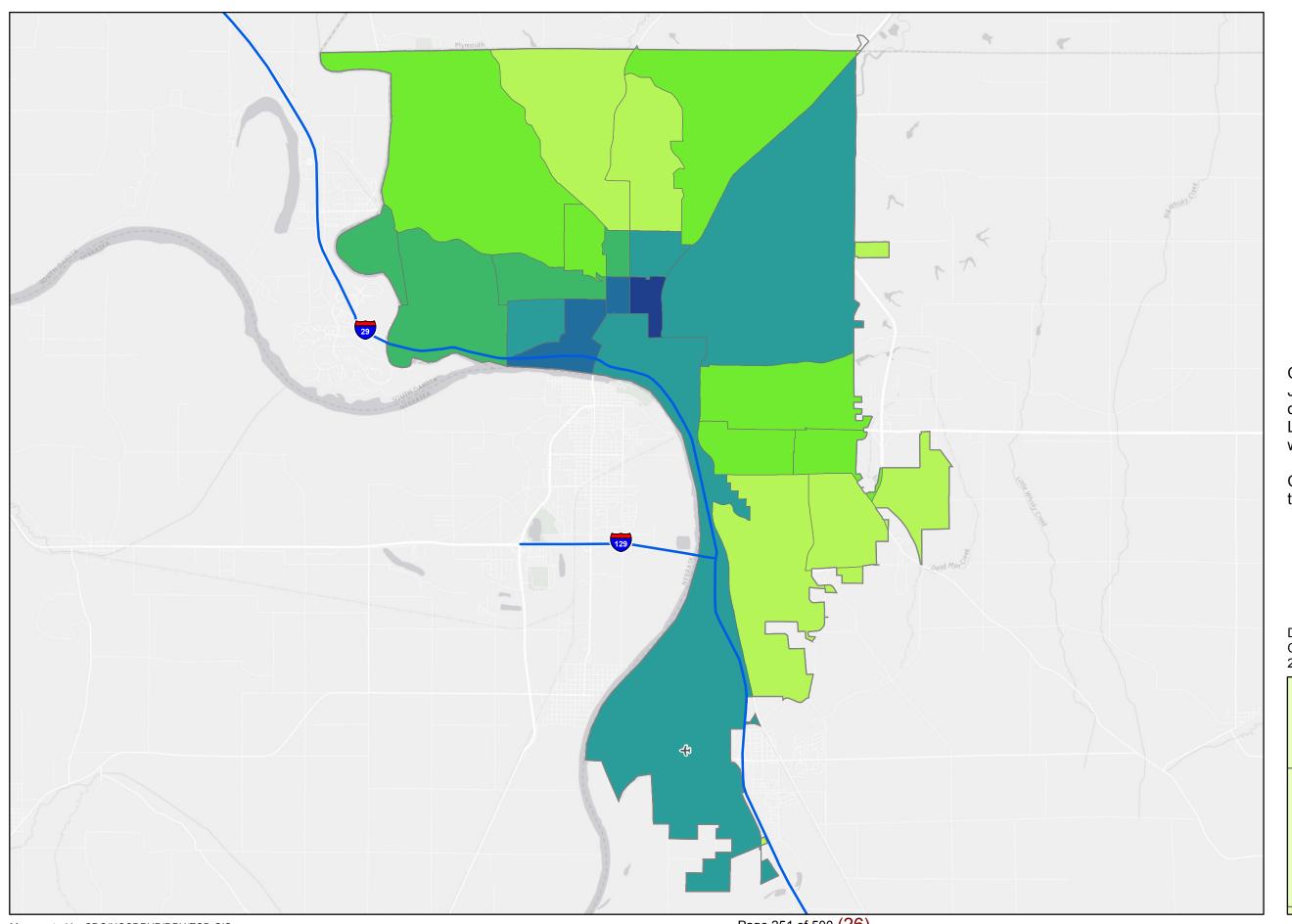
Data sources: CDC BRFSS 2014, US Census Bureau 2010 Census, ACS 2010-2014,

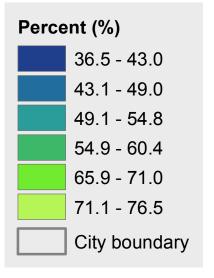


Map created by CDC/NCCDPHP/DPH/ESB-GIS

Date: 3/18/2016

## Visits to dentist or dental clinic among adults aged ≥18 years by census tract, Sioux City, IA, 2014

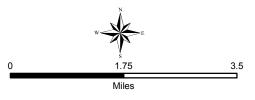




## Classification:

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 2014, US Census Bureau 2010 Census, ACS 2010-2014,

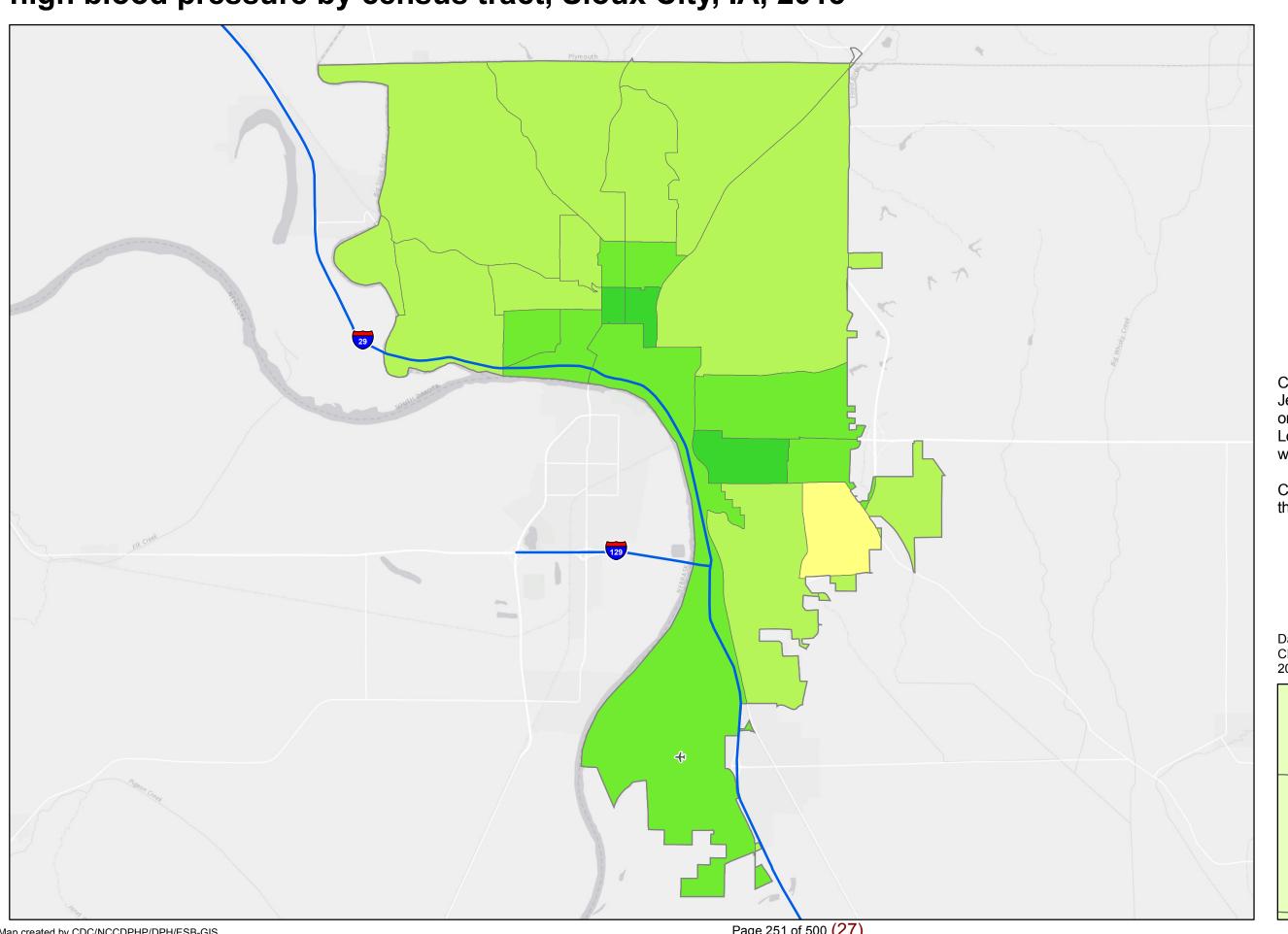


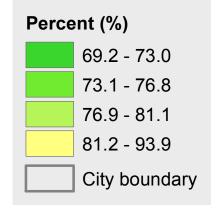
Map created by CDC/NCCDPHP/DPH/ESB-GIS

Page 251 of 500 (26)

Date: 10/15/2016

## Taking medicine for high blood pressure control among adults aged ≥18 years with high blood pressure by census tract, Sioux City, IA, 2013

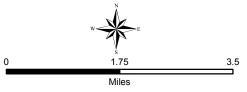




#### Classification:

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.



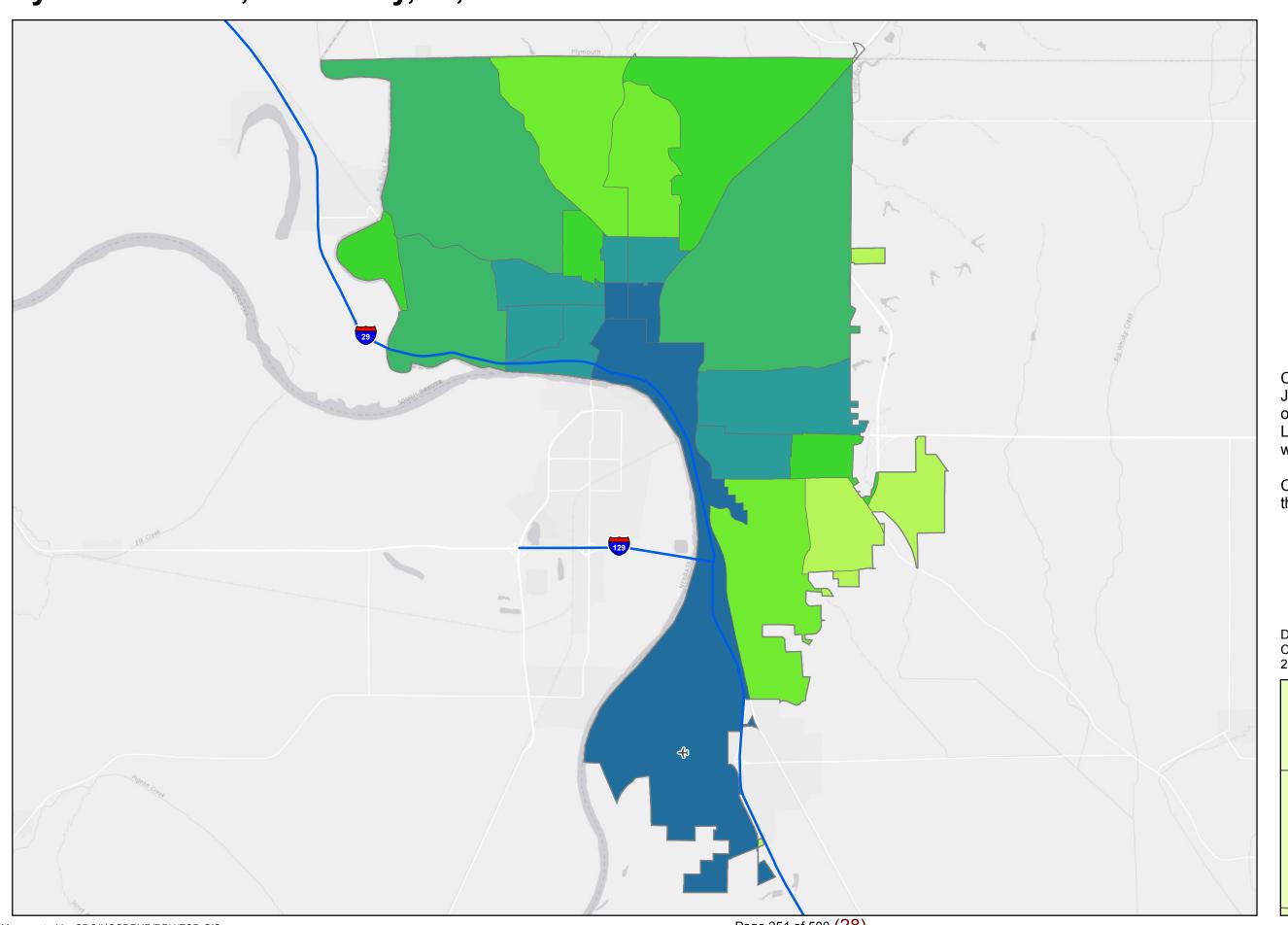
#### Data sources: CDC BRFSS 2013, US Census Bureau 2010 Census, ACS 2009-2013.

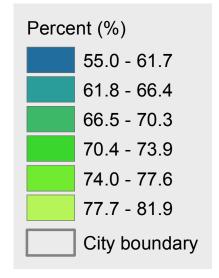


Date: 5/3/2016

Page 251 of 500 (27) Map created by CDC/NCCDPHP/DPH/ESB-GIS

## Cholesterol screening among adults aged ≥18 years by census tract, Sioux City, IA, 2013





## 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 2013, US Census Bureau 2010 Census, ACS 2009-2013.

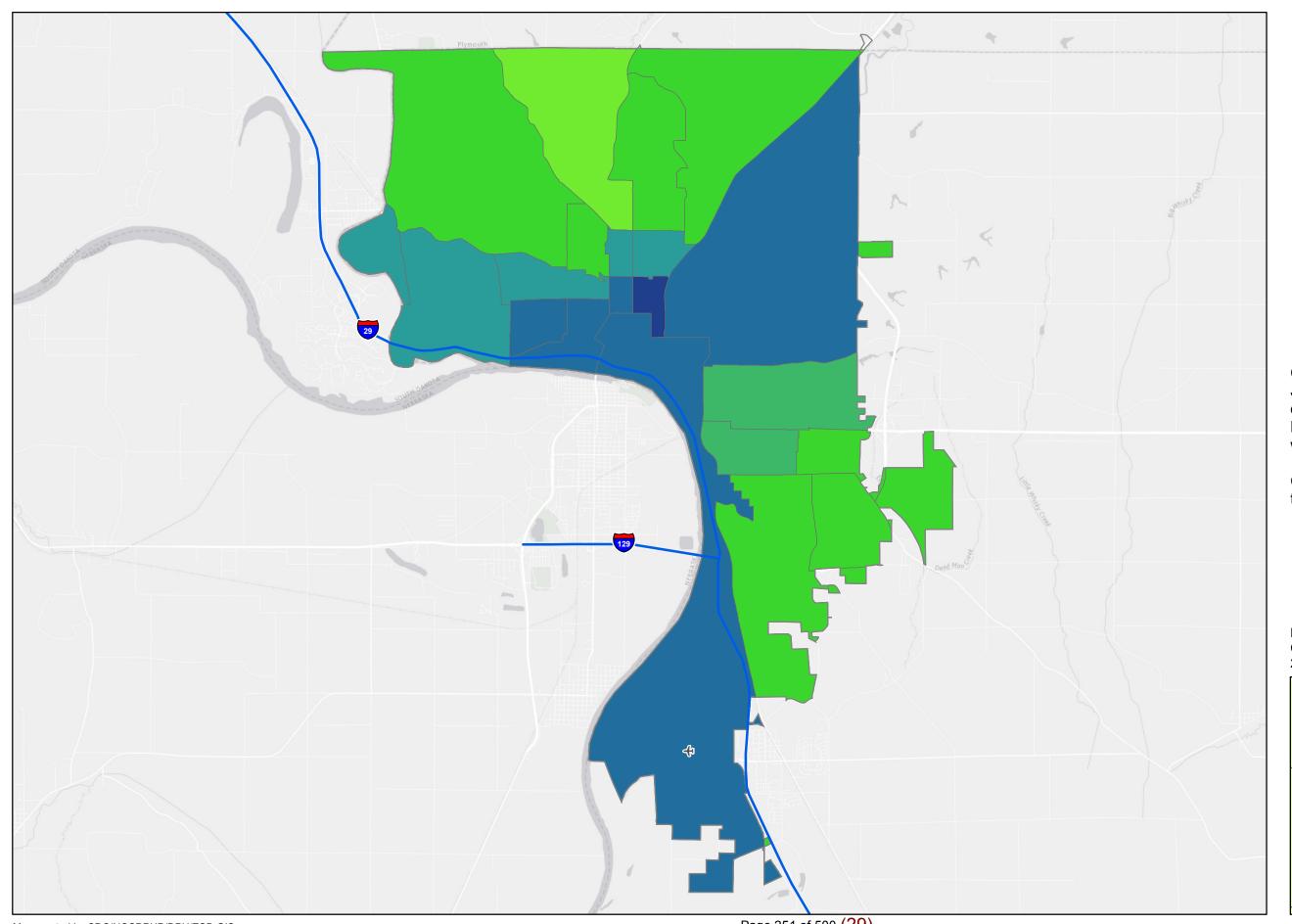


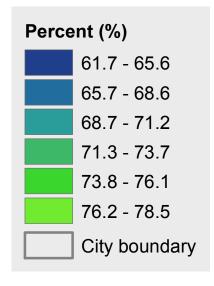
Map created by CDC/NCCDPHP/DPH/ESB-GIS

Page 251 of 500 (28)

Date: 5/3/2016

## Mammography use among women aged 50-74 years by census tract, Sioux City, IA, 2014

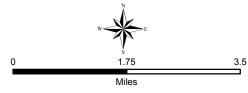




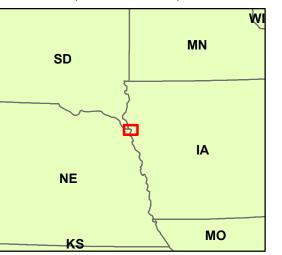
## Classification:

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.

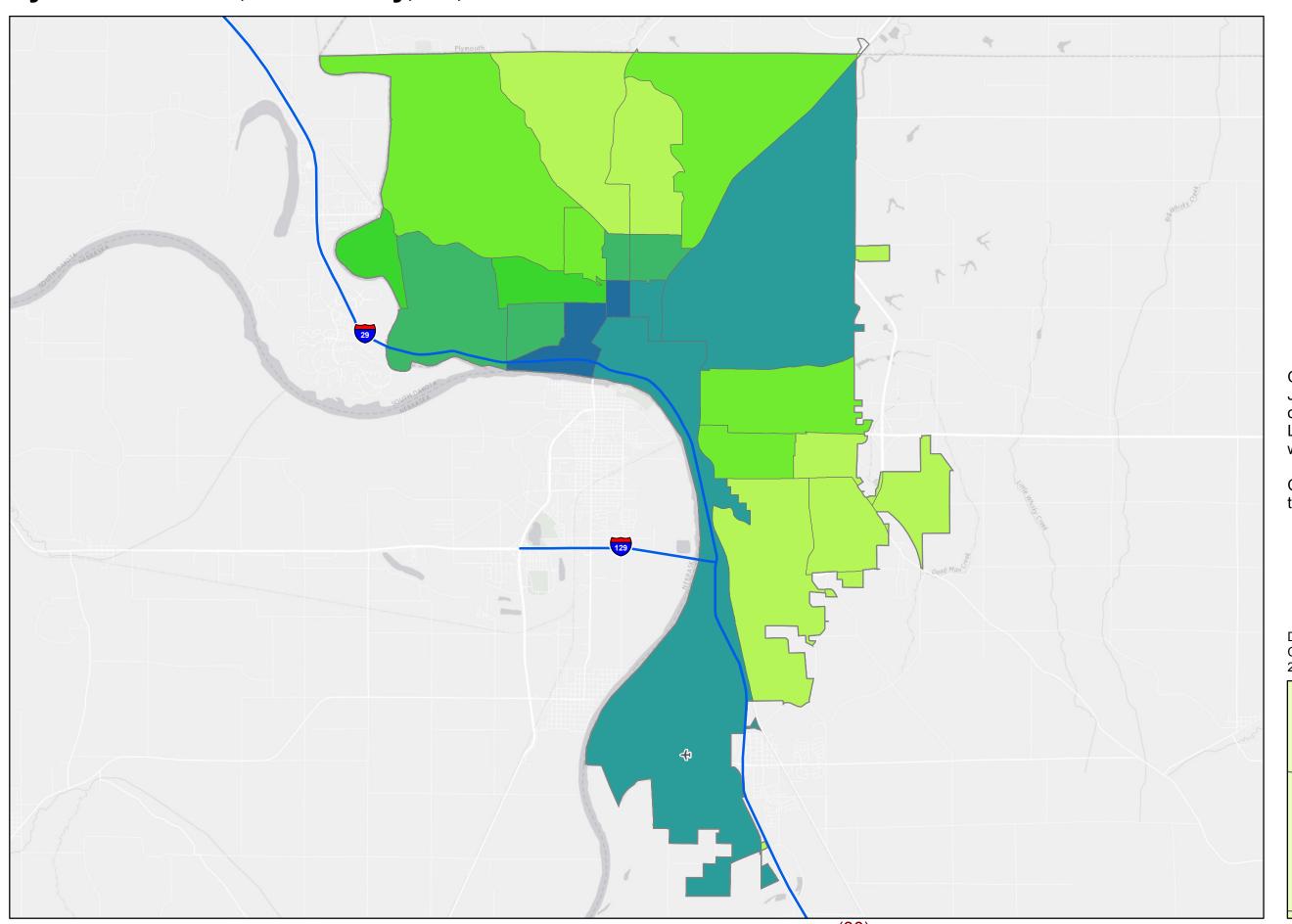


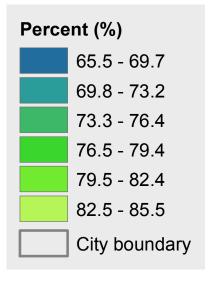
Data sources: CDC BRFSS 2014, US Census Bureau 2010 Census, ACS 2010-2014,



Map created by CDC/NCCDPHP/DPH/ESB-GIS Page 251 of 500 (29)

## Papanicolaou smear use among adult women aged 21-65 years by census tract, Sioux City, IA, 2014

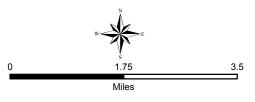




## Classification:

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.



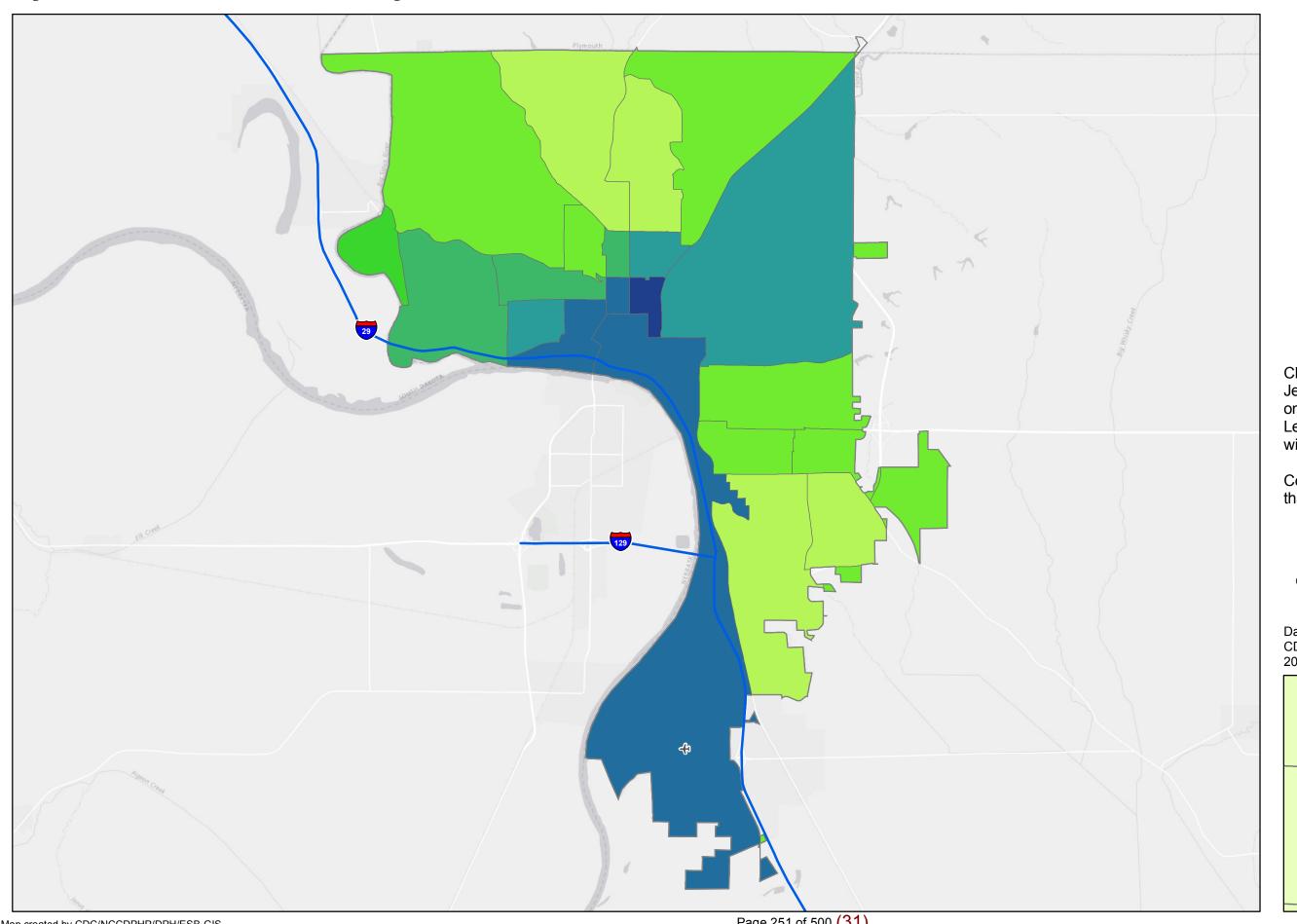
Data sources: CDC BRFSS 2014, US Census Bureau 2010 Census, ACS 2010-2014,

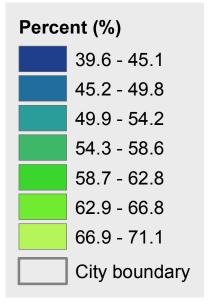


Date: 7/5/2016

Map created by CDC/NCCDPHP/DPH/ESB-GIS
Page 251 of 500 (30)

## Fecal occult blood test, sigmoidoscopy, or colonoscopy among adults aged 50-75 years by census tract, Sioux City, IA, 2014

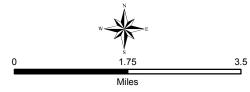




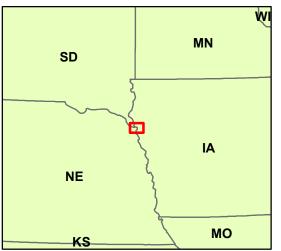
### Classification:

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.



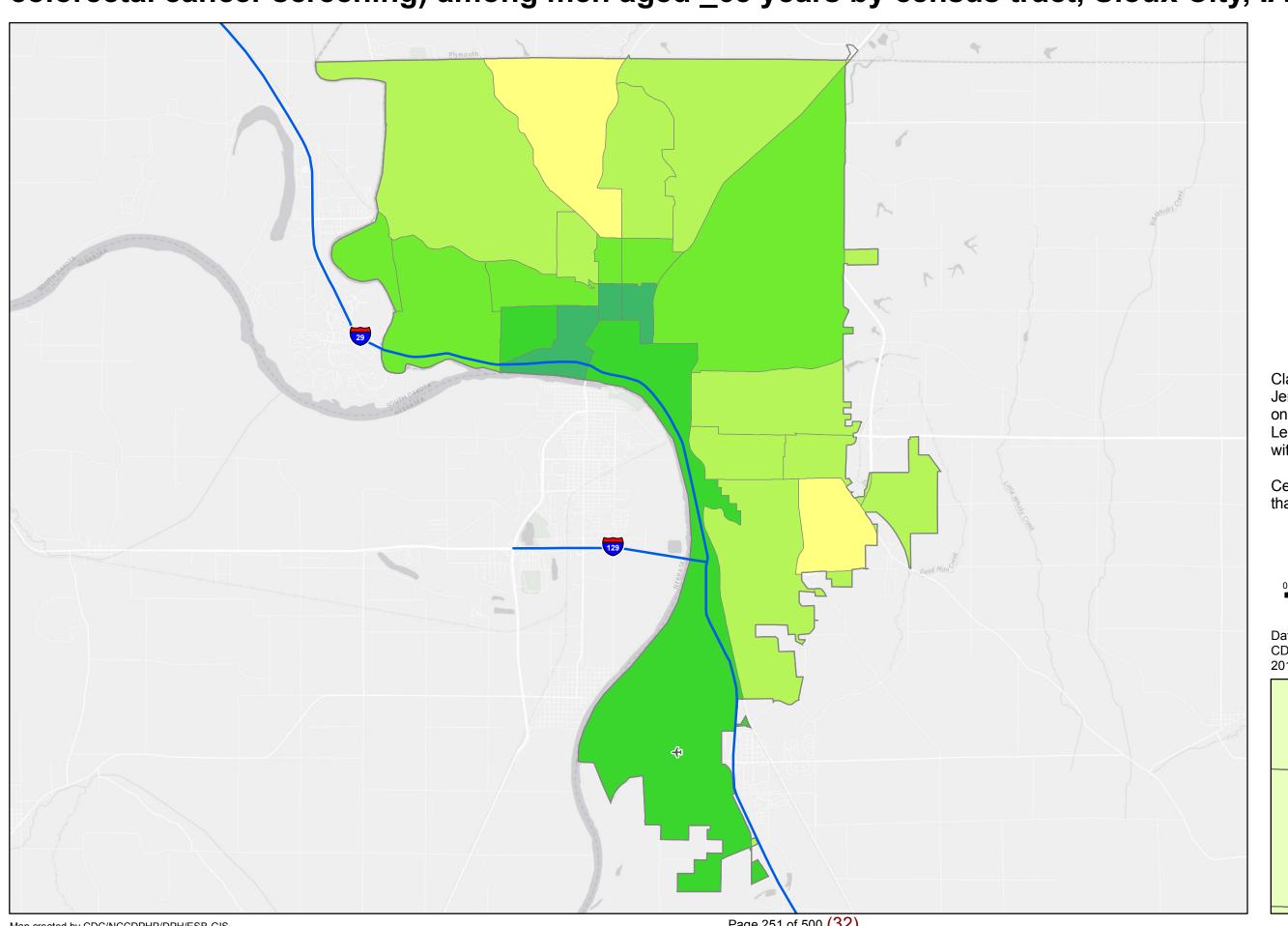
Data sources: CDC BRFSS 2014, US Census Bureau 2010 Census, ACS 2010-2014,

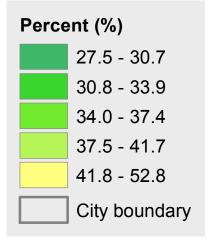


Date: 5/4/2016

Page 251 of 500 (31) Map created by CDC/NCCDPHP/DPH/ESB-GIS

## 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, Sioux City, IA, 2014

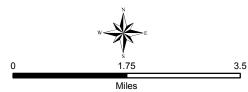




#### Classification:

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.



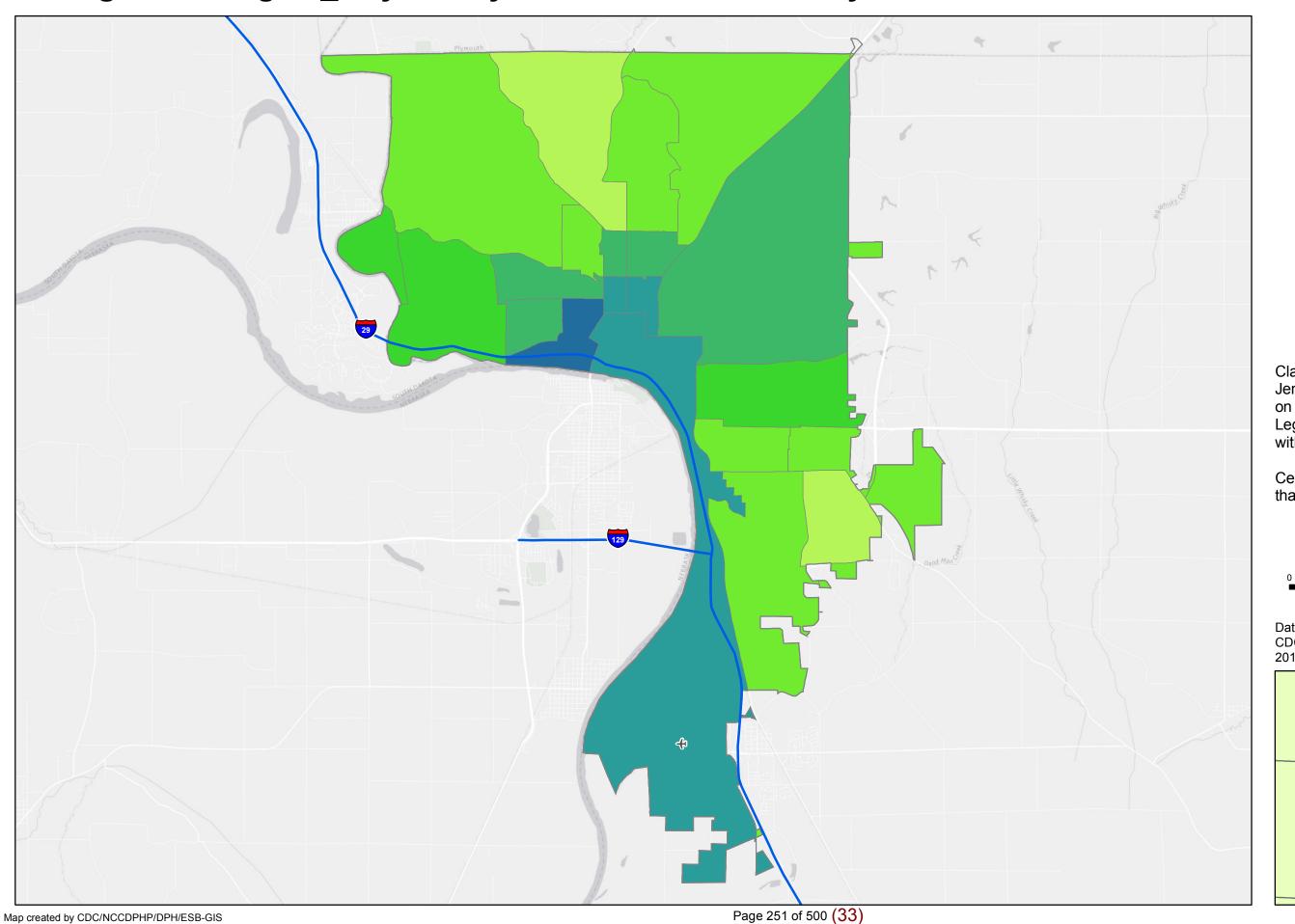
Data sources: CDC BRFSS 2014, US Census Bureau 2010 Census, ACS 2010-2014,

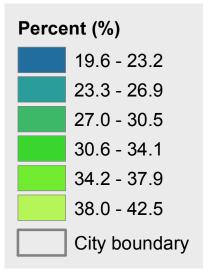


Date: 7/1/2016

Page 251 of 500 (32) Map created by CDC/NCCDPHP/DPH/ESB-GIS

## 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, Sioux City, IA, 2014

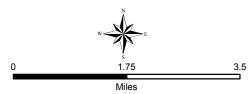




#### Classification:

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 2014, US Census Bureau 2010 Census, ACS 2010-2014,

