



Understanding Scale

Map Activities

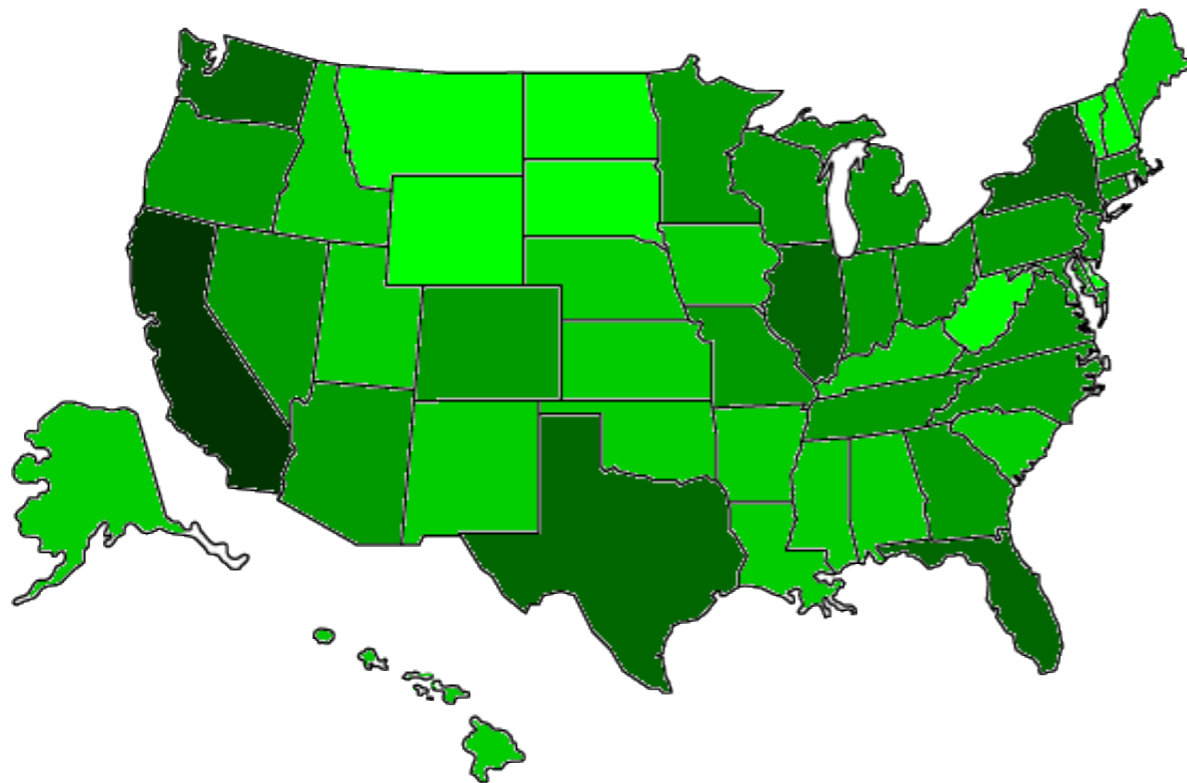
Where in the World are all the Starbucks?



-  More Than 2000
-  500 - 1,000
-  100 - 499
-  25 - 99
-  Less Than 25
- None (white)

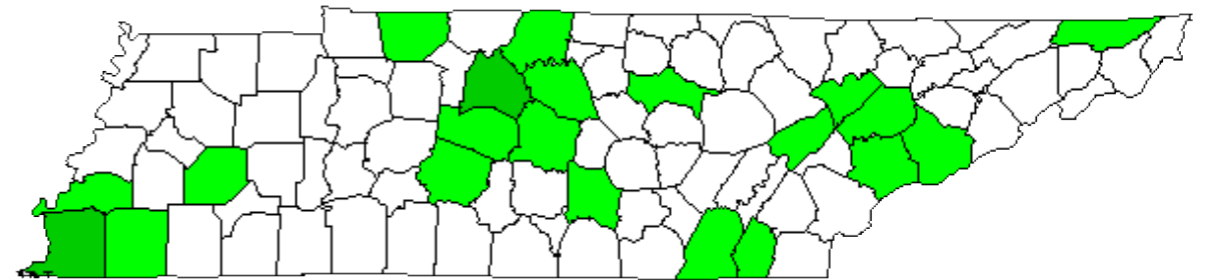


The United States, 2008



Where will the next Starbucks be?

Tennessee, 2008



Source: starbucks.com

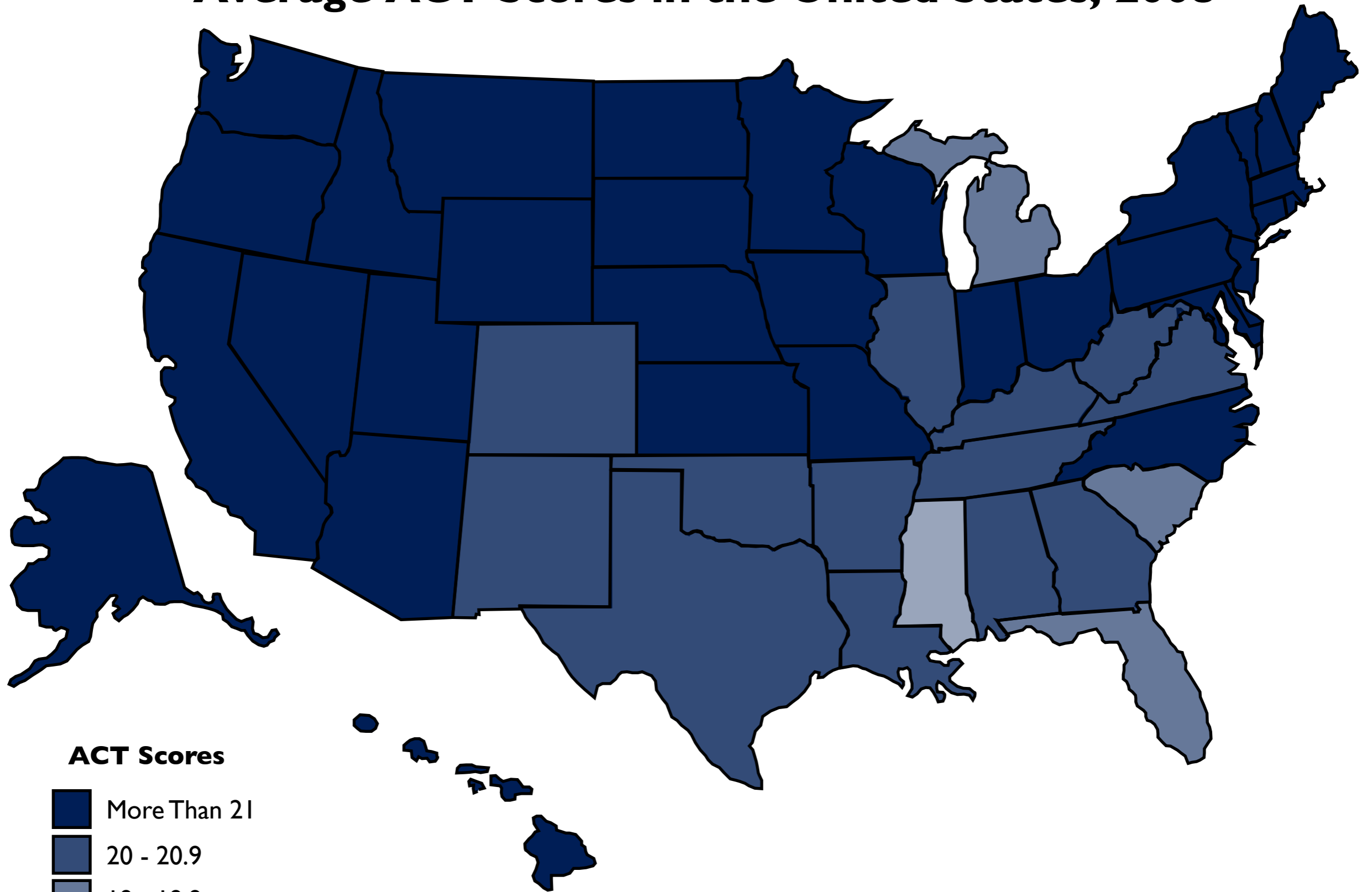
Name: _____

Date: _____ Period: _____

Analysis Questions

- 1. **Where** in the world are the world's Starbucks and **why** are they in those specific countries?
- 2. How does the **Starbucks World, USA, and TN Map** illustrate the importance of understanding **scale**?
- 3. Why are so many of the Starbucks found along Poplar Avenue and Germantown Road?
- 5. What type(s) of diffusion can be seen on the United States map?
- 6. Why are there so few Starbucks in: a. Africa, b. Northern Europe, c. South Asia?

Average ACT Scores in the United States, 2008

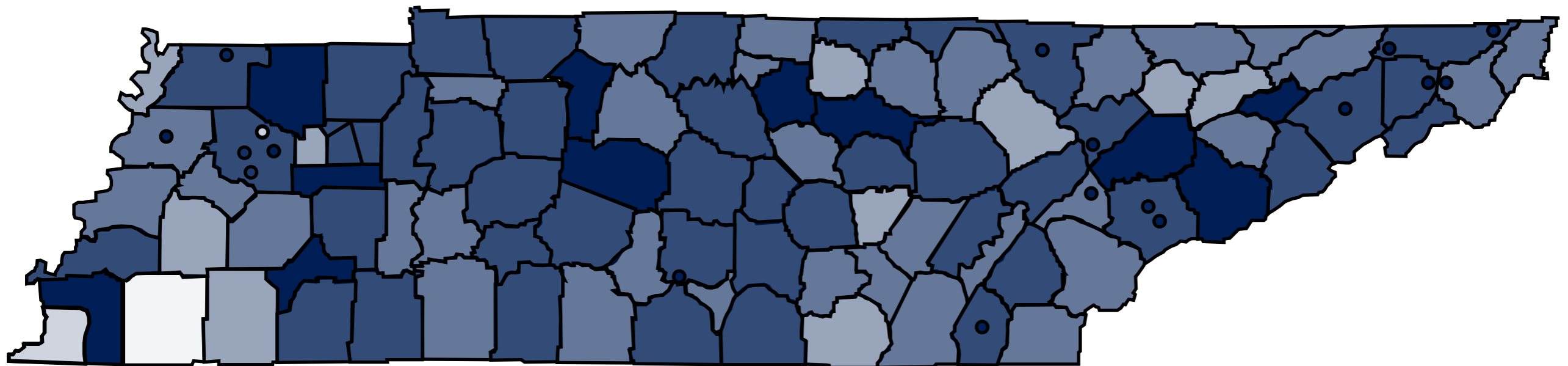


ACT Scores

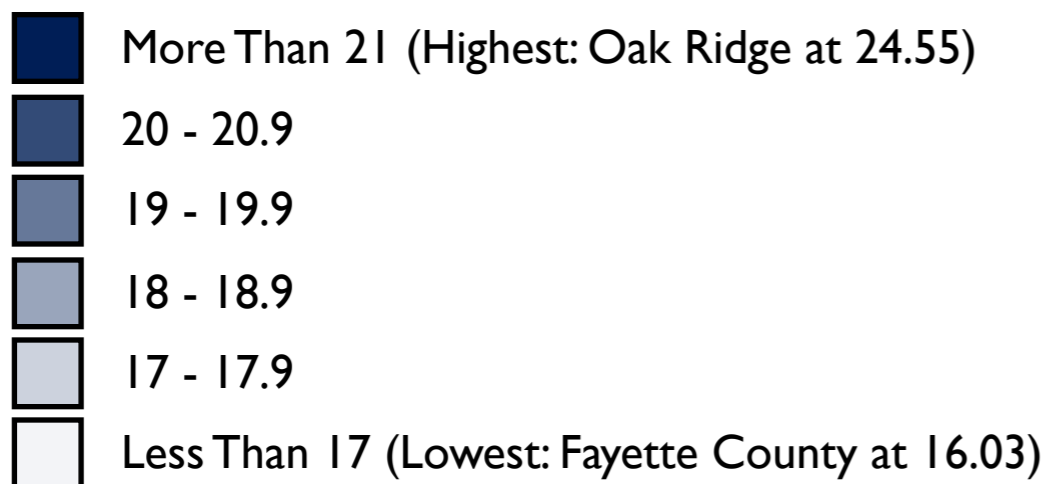
- More Than 21
- 20 - 20.9
- 19 - 19.9
- 18 - 18.9
- 17 - 17.9
- Less Than 17

No states below 18.9 (Mississippi)

Average ACT Scores in Tennessee Counties and Special School Districts, 2008



ACT Scores



Average ACT Scores in Shelby County, 2008

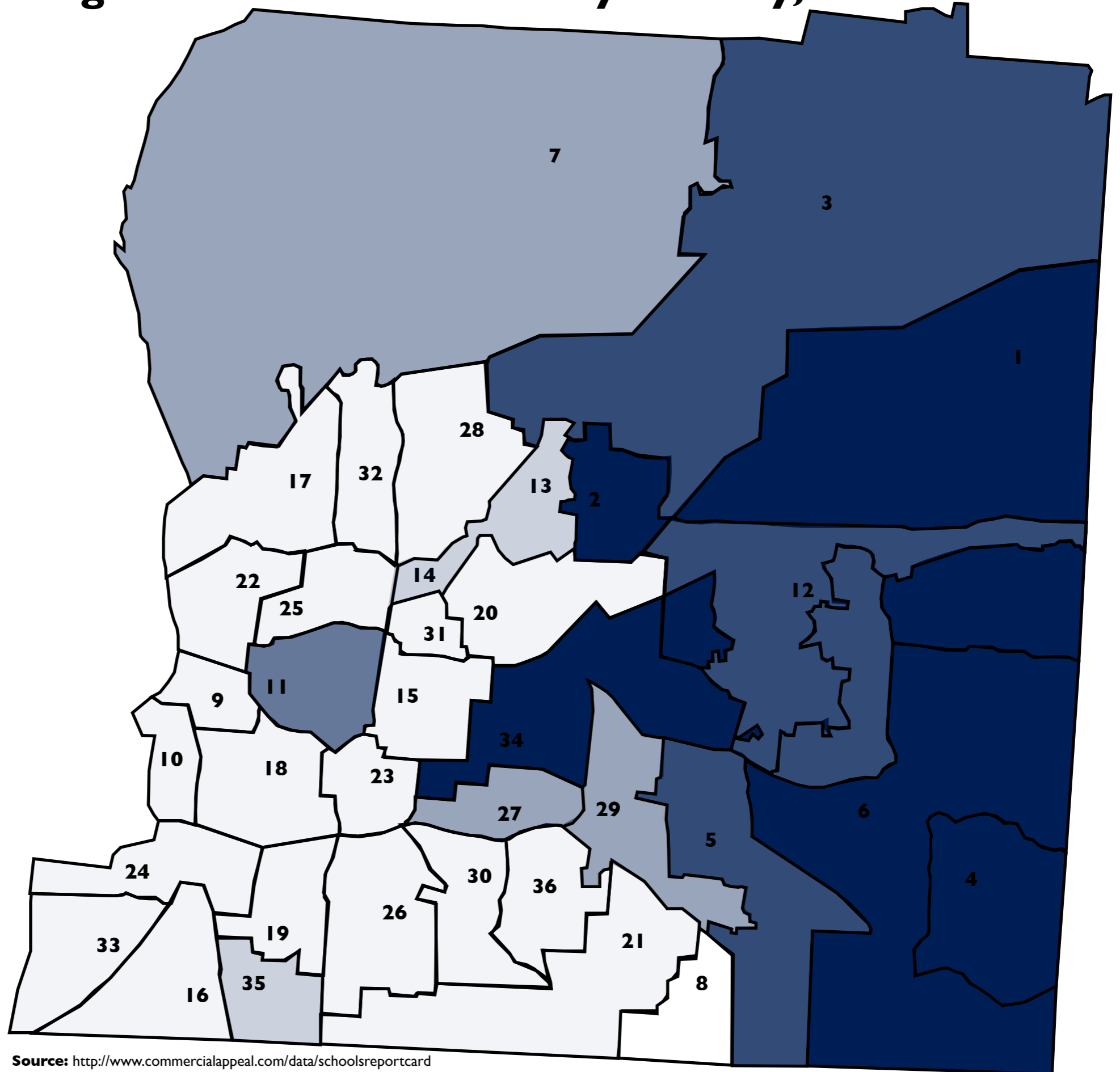
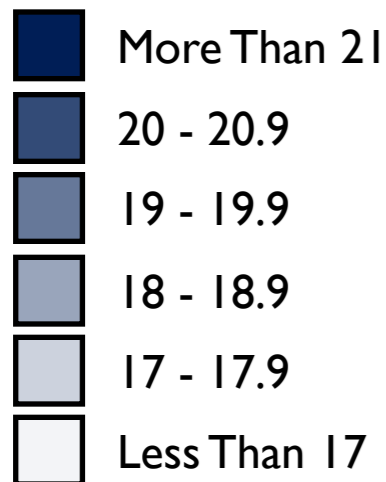
Shelby County Schools

- 1- Arlington: 21.2
- 2- Bartlett: 21.3
- 3- Bolton: 20.5
- 4- Collierville: 23.5
- 5- Germantown: 20.3
- 6- Houston: 23.3
- 7- Millington Central: 18.6
- 8- Southwind: No Scores

Memphis City Schools

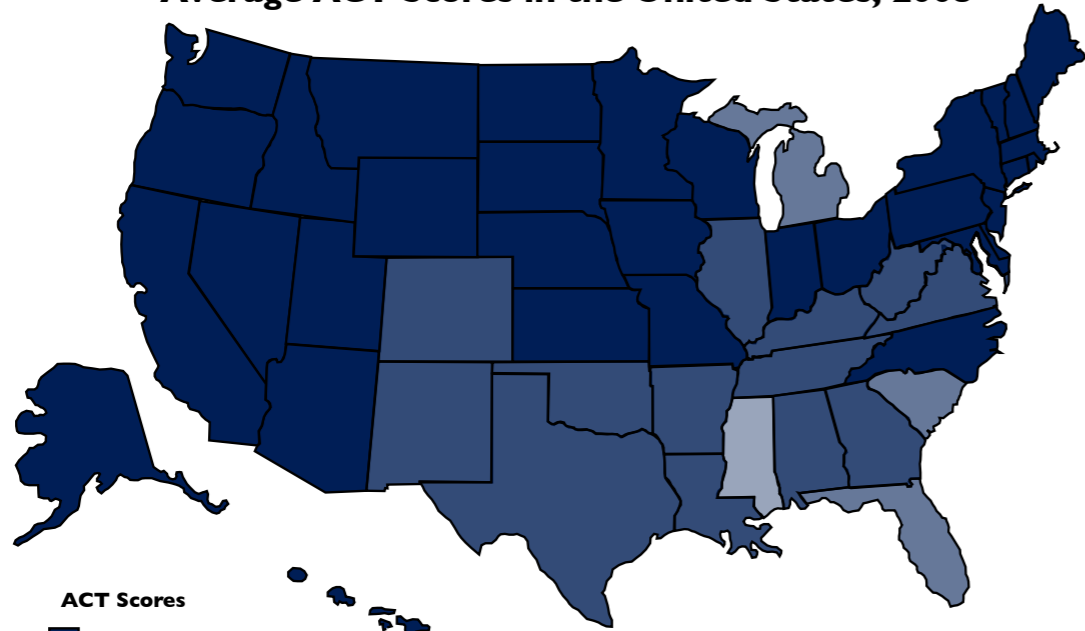
- 9- Booker T. Washington: 14.6
- 10- Carver: 15.3
- 11- Central: 19.3
- 12- Cordova: 20.7
- 13- Craigmont: 16.6
- 14- Douglas: No Scores
- 15- East: 15.7
- 16- Fairley: 15.2
- 17- Frayser: 15.6
- 18- Hamilton: 15.3
- 19- Hillcrest: 15.6
- 20- Kingsbury: 16.4
- 21- Kirby: 16.6
- 22- Manassas: 14.5
- 23- Melrose: 15.7
- 24- Mitchell: 14.9
- 25- Northside: 15.0
- 26- Oakhaven: 15.4
- 27- Overton: 18.8
- 28- Raleigh-Egypt: 16.0
- 29- Ridgeway: 18.4
- 30- Sheffield: 15.1
- 31- Treadwell: 16.5
- 32- Trezevant: 14.7
- 33- Westwood: 15.4
- 34- White Station: 23.7
- 35- Whitehaven: 17.1
- 36- Wooddale: 16.2

ACT Scores

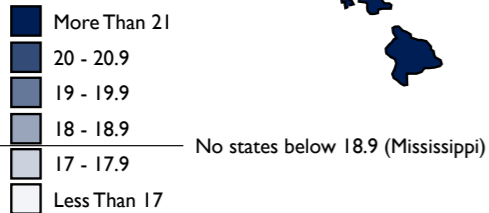


Source: <http://www.commercialappeal.com/data/schoolsreportcard>

Average ACT Scores in the United States, 2008

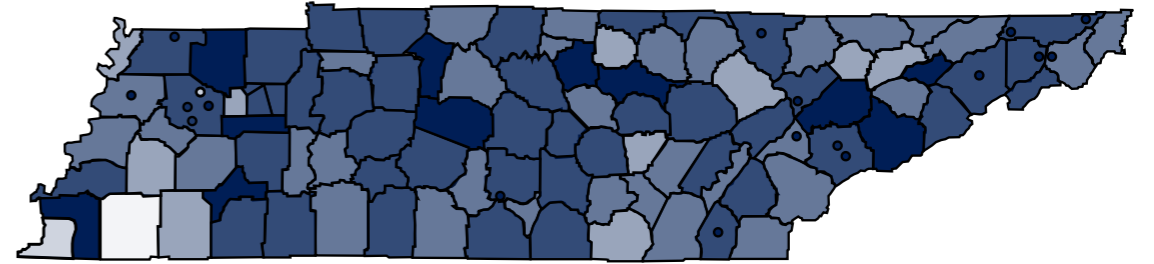


ACT Scores

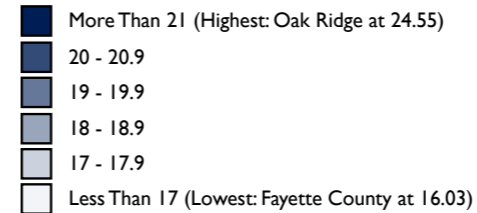


Source: College Board Web site

Average ACT Scores in Tennessee Counties and Special School Districts, 2008



ACT Scores

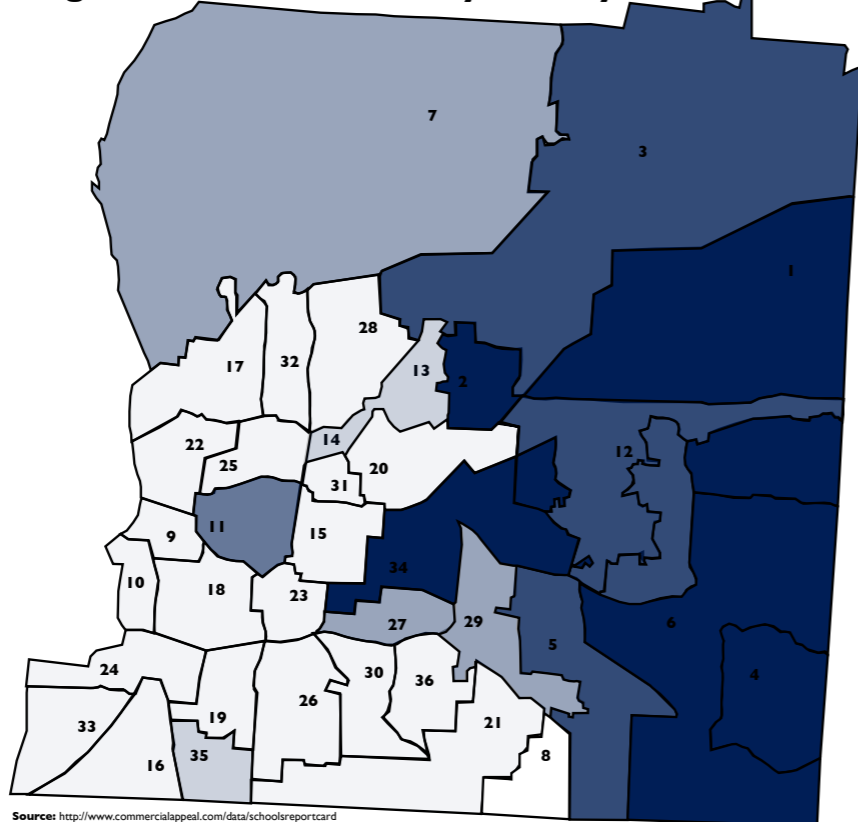


Source: College Board Web site

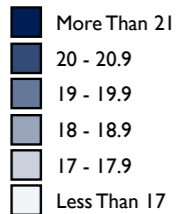
Average ACT Scores in Shelby County, 2008

Shelby County Schools
 1- Arlington: 21.2
 2- Bartlett: 21.3
 3- Bolton: 20.5
 4- Collierville: 23.5
 5- Germantown: 20.3
 6- Houston: 23.3
 7- Millington Central: 18.6
 8- Southwind: No Scores

Memphis City Schools
 9- Booker T. Washington: 14.6
 10- Carver: 15.3
 11- Central: 19.3
 12- Cordova: 20.7
 13- Craigmont: 16.6
 14- Douglas: No Scores
 15- East: 15.7
 16- Fairley: 15.2
 17- Frayser: 15.6
 18- Hamilton: 15.3
 19- Hillcrest: 15.6
 20- Kingsbury: 16.4
 21- Kirby: 16.6
 22- Manassas: 14.5
 23- Melrose: 15.7
 24- Mitchell: 14.9
 25- Northside: 15.0
 26- Oakhaven: 15.4
 27- Overton: 18.8
 28- Raleigh-Egypt: 16.0
 29- Ridgeway: 18.4
 30- Sheffield: 15.1
 31- Treadwell: 16.5
 32- Trezevant: 14.7
 33- Westwood: 15.4
 34- White Station: 23.7
 35- Whitehaven: 17.1
 36- Wooddale: 16.2



ACT Scores



Source: <http://www.commercialappeal.com/data/schoolsreportcard>

Discuss how scale impacts one's understanding of each of the three maps.

Discuss 3 patterns found on the maps.

Shelby County's Economically Disadvantaged Students, 2008

ECONOMICALLY DISADVANTAGED SCHOOLS, 2008

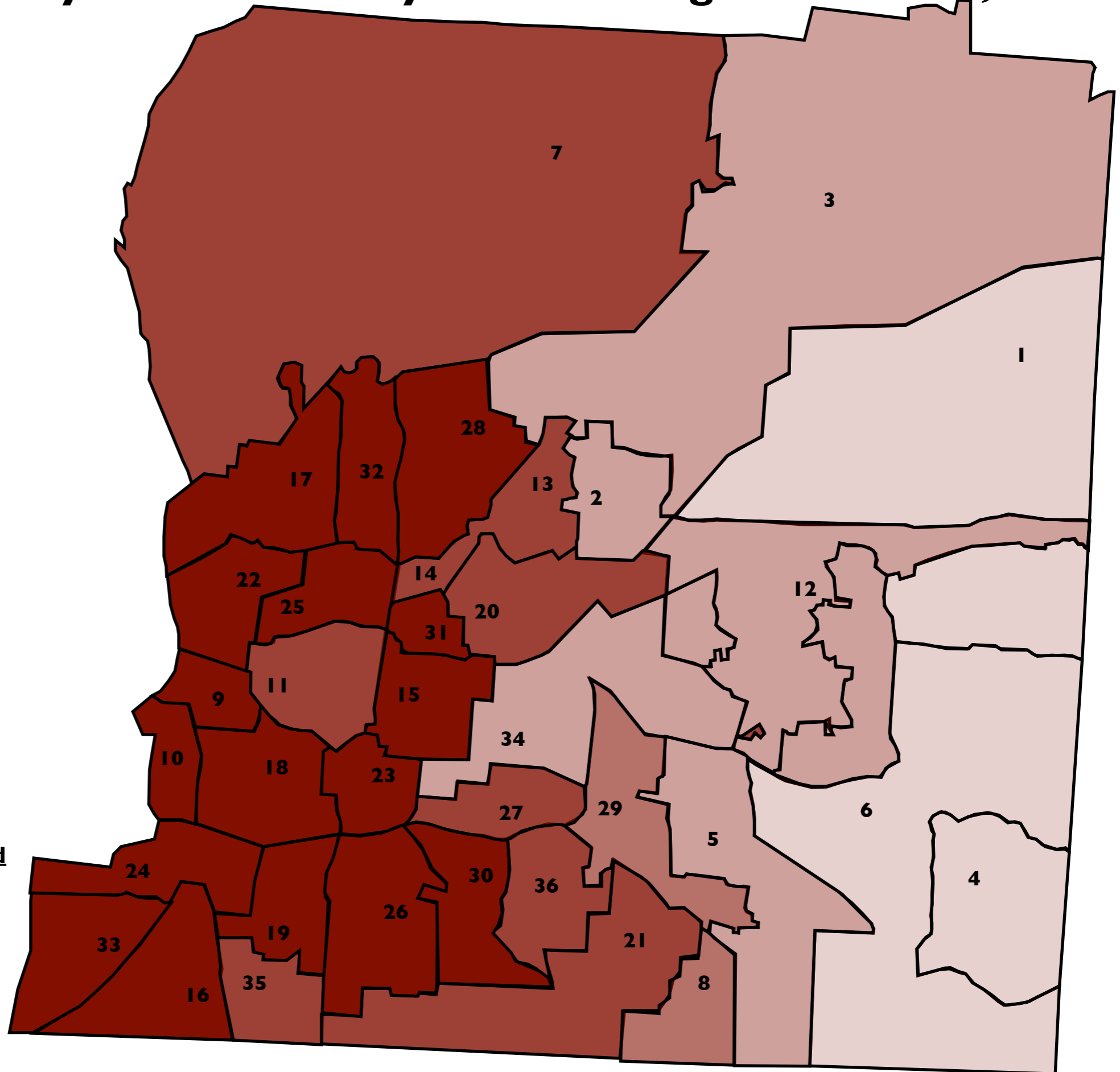
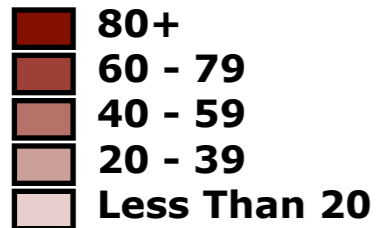
Shelby County Schools - 30.1

- 1- Arlington - 11.1
- 2- Bartlett - 24.5
- 3- Bolton - 26.2
- 4- Collierville - 10.3
- 5- Germantown - 23.6
- 6- Houston - 12.5
- 7- Millington Central - 73.4
- 8- Southwind - 53.4

Memphis City Schools - 79.6

- 9- Booker T. Washington - 93.4
- 10- Carver - 90.8
- 11- Central - 60.5
- 12- Cordova - 29.2
- 13- Craigmont - 68.4
- 14- Douglas - N/A
- 15- East - 85.0
- 16- Fairley - 81.9
- 17- Frayser - 86.3
- 18- Hamilton - 83.2
- 19- Hillcrest - 88.6
- 20- Kingsbury - 76.7
- 21- Kirby - 71.4
- 22- Manassas - 91.0
- 23- Melrose - 83.1
- 24- Mitchell - 82.8
- 25- Northside - 87.9
- 26- Oakhaven - 87.7
- 27- Overton - 67.5
- 28- Raleigh-Egypt - 80.7
- 29- Ridgeway - 54.0
- 30- Sheffield - 86.8
- 31- Treadwell - 90.2
- 32- Trezevant - 90.3
- 33- Westwood - 88.7
- 34- White Station - 30.1
- 35- Whitehaven - 62.2
- 36- Wooddale - 77.1

% Students Disadvantaged



AIDS Statistics for USA's 50 States

Estimated number of adults and adolescents living with an AIDS diagnosis or a diagnosis of HIV infection at the end of 2008, and reported AIDS diagnosis rates in 2009, by state and dependent area

Area of residence	Living with a diagnosis of HIV Infection	Living with an AIDS diagnosis	AIDS diagnoses in 2009 per 100,000 population
Alabama	10,316	4,335	5.0
Alaska	607	343	2.7
Arizona	11,815	5,415	9.0
Arkansas	4,976	2,410	6.8
California	-	67,708	10.2
Colorado	10,678	4,552	6.2
Connecticut	10,930	6,999	9.7
Delaware	-	1,841	18.0

AIDS Statistics for USA's 50 States

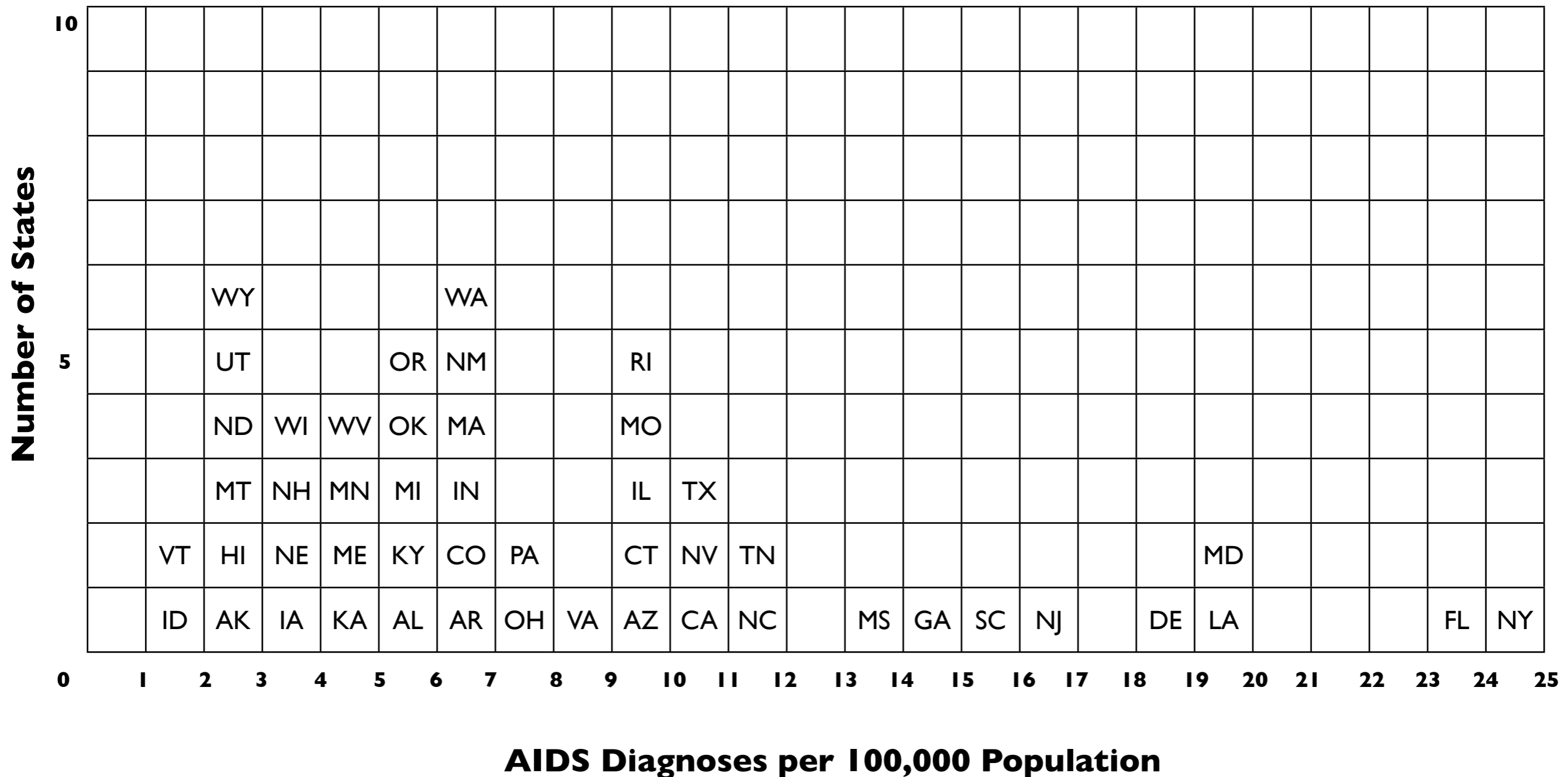
Estimated number of adults and adolescents living with an AIDS diagnosis or a diagnosis of HIV infection at the end of 2008, and reported AIDS diagnosis rates in 2009, by state and dependent area

Area of residence	Living with a diagnosis of HIV Infection	Living with an AIDS diagnosis	AIDS diagnoses in 2009 per 100,000 population
Alabama	10,316	4,335	5.0
Alaska	607	343	2.7
Arizona	11,815	5,415	9.0
Arkansas	4,976	2,410	6.8
California	-	67,708	10.2
Colorado	10,678	4,552	6.2
Connecticut	10,930	6,999	9.7
Delaware	-	1,841	18.0

Histogram for AIDS Diagnoses in 2009 per 100,000

1. Use the completed histogram to determine between 4 to 6 categories for the data.
2. Use the blank USA map to construct a choropleth map for the statistics.

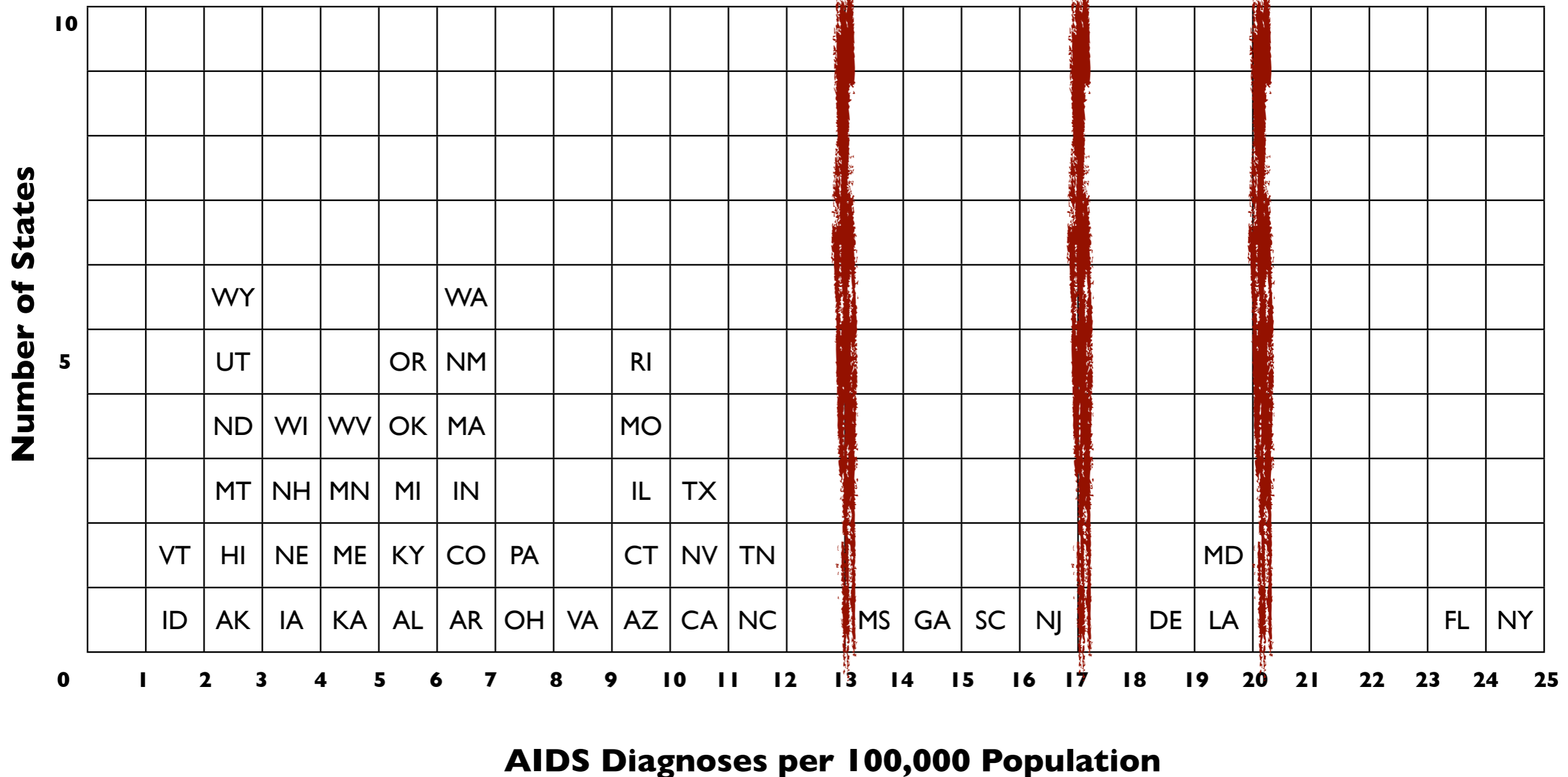
Histogram for the number of Starbucks per state in the USA



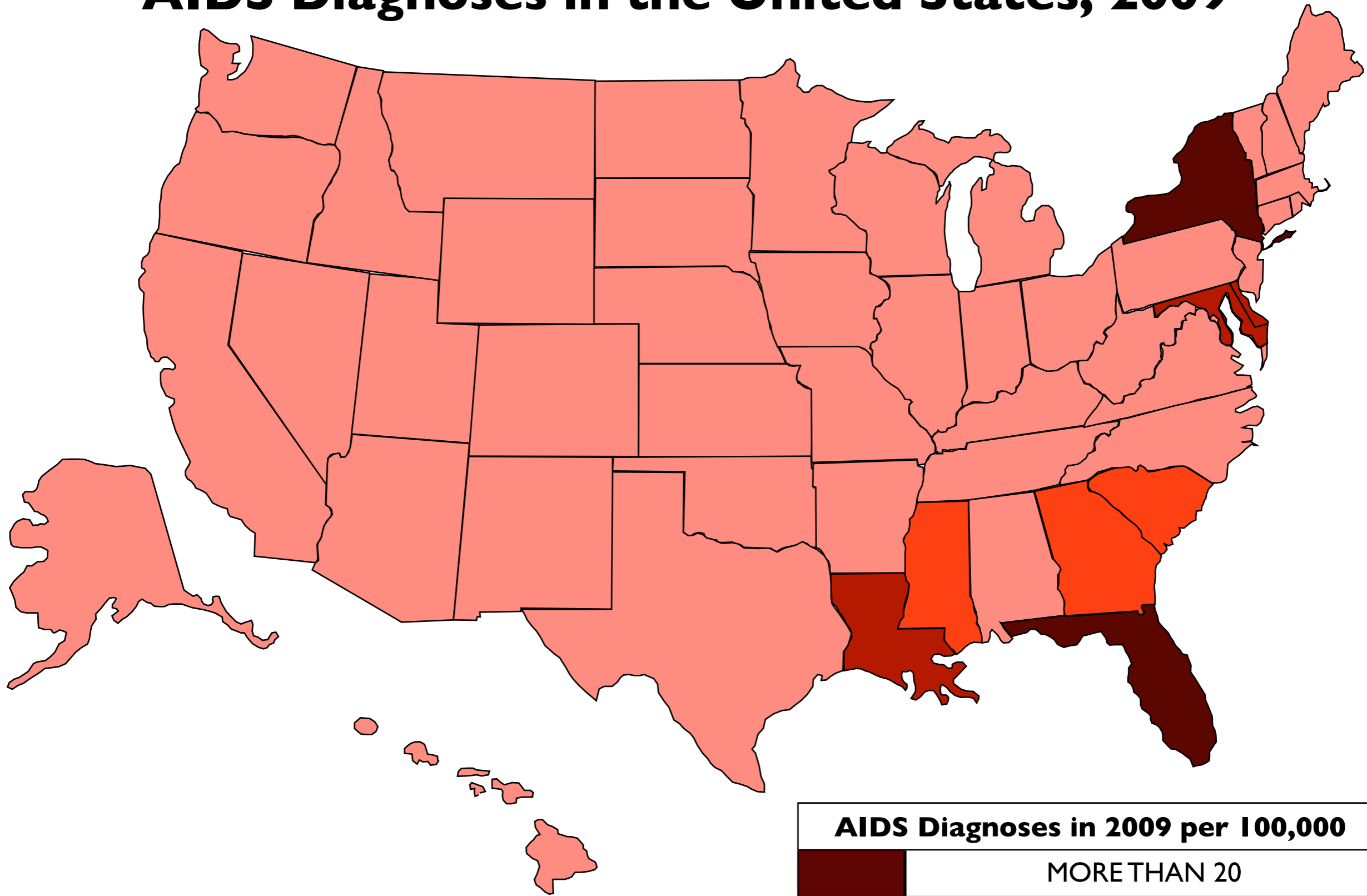
Histogram for AIDS Diagnoses in 2009 per 100,000





1. Use the completed histogram to determine between 4 to 6 categories for the data.
2. Use the blank USA map to construct a choropleth map for the statistics.

Histogram for the number of Starbucks per state in the USA



AIDS Diagnoses in the United States, 2009

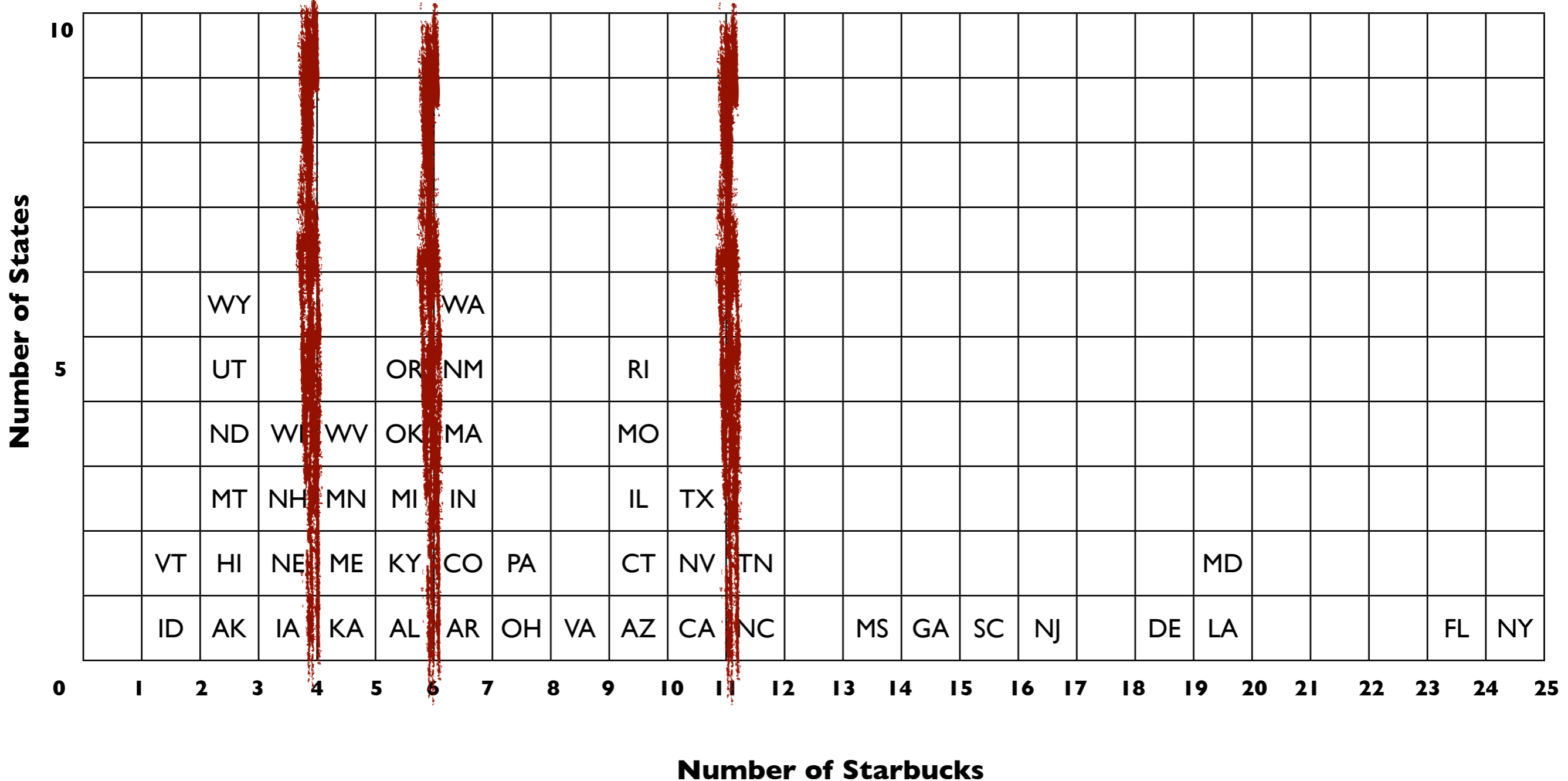


AIDS Diagnoses in 2009 per 100,000	
	MORE THAN 20
	17-20
	13-17
	LESS THAN 13

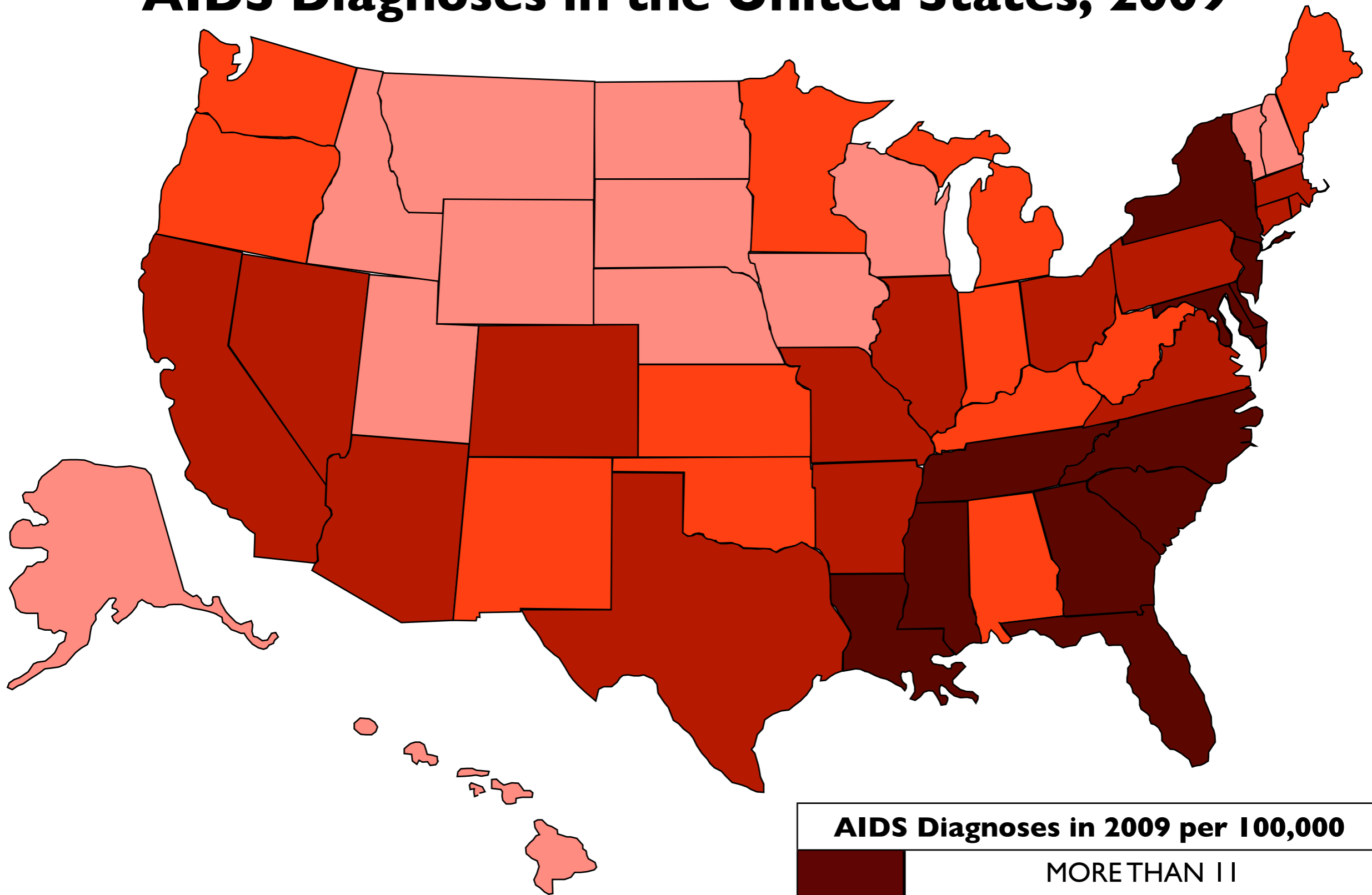
Histogram for AIDS Diagnoses in 2009 per 100,000





1. Use the completed histogram to determine between 4 to 6 categories for the data.
2. Use the blank USA map to construct a choropleth map for the statistics.

Histogram for the number of Starbucks per state in the USA



AIDS Diagnoses in the United States, 2009

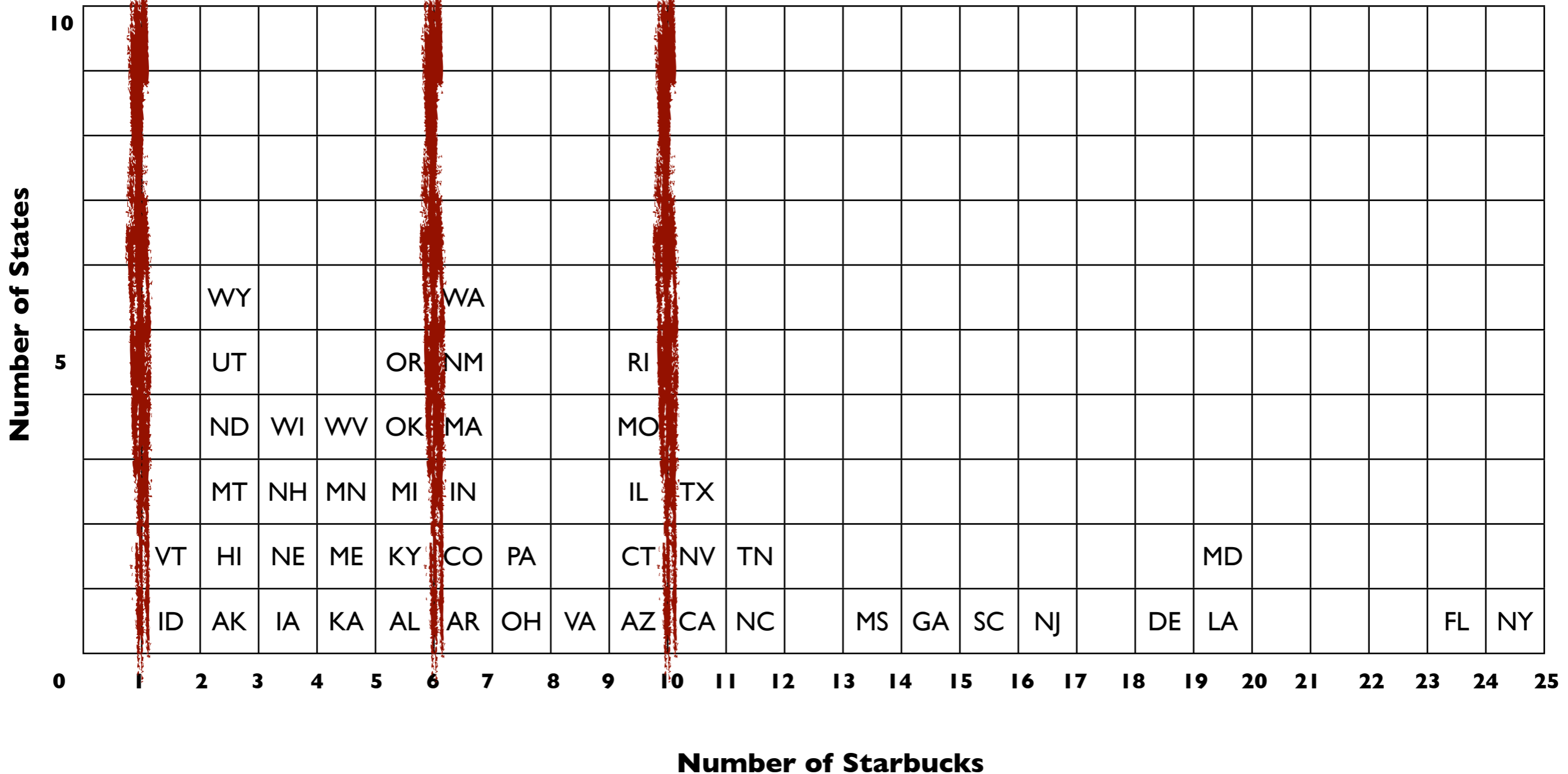


AIDS Diagnoses in 2009 per 100,000	
	MORE THAN 11
	6.5-11
	4-6.5
	LESS THAN 4

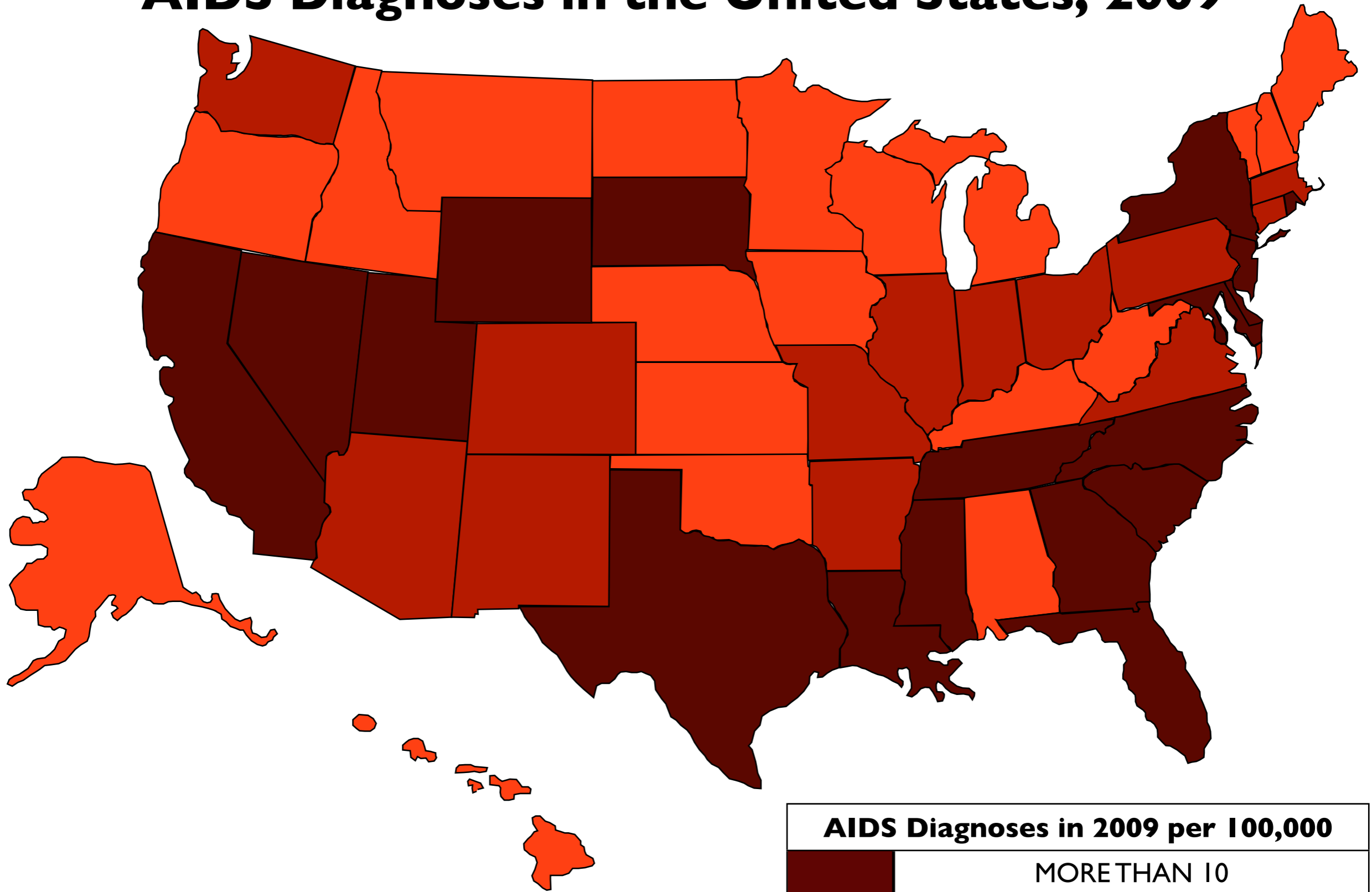
Histogram for AIDS Diagnoses in 2009 per 100,000

1. Use the completed histogram to determine between 4 to 6 categories for the data.
2. Use the blank USA map to construct a choropleth map for the statistics.

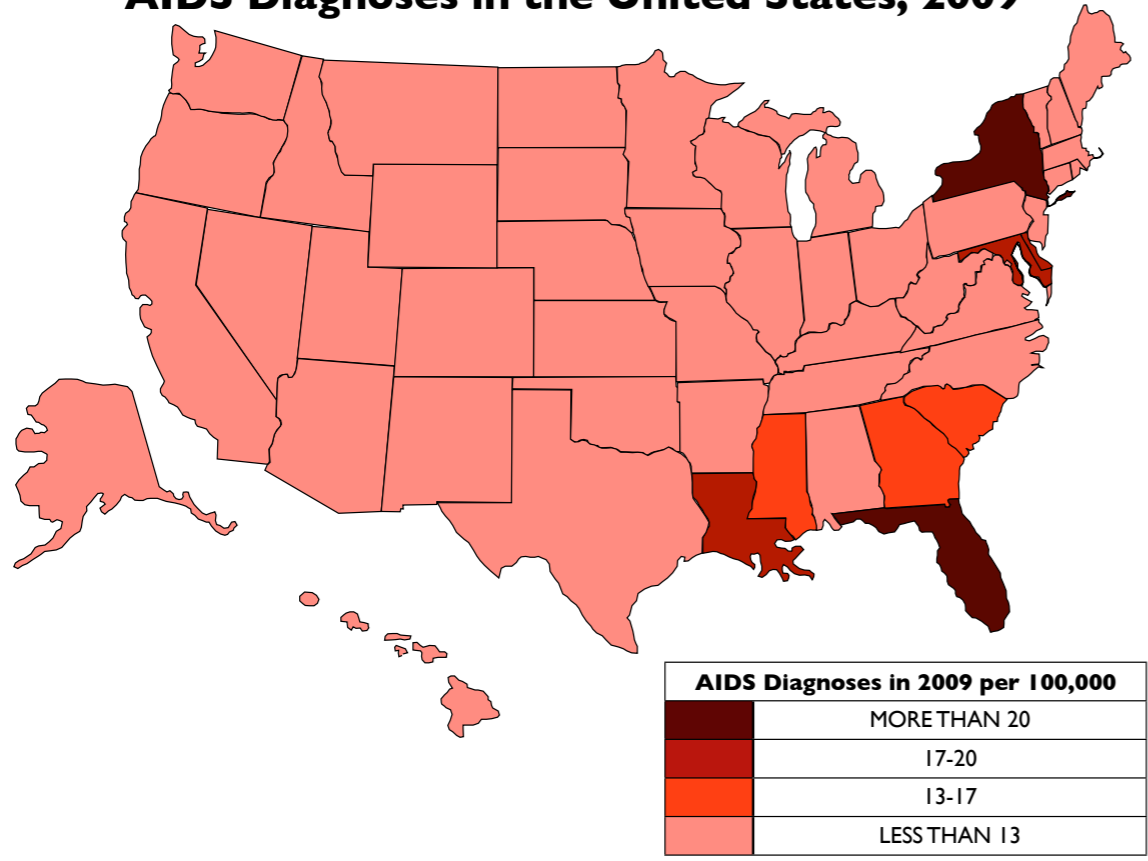
Histogram for the number of Starbucks per state in the USA



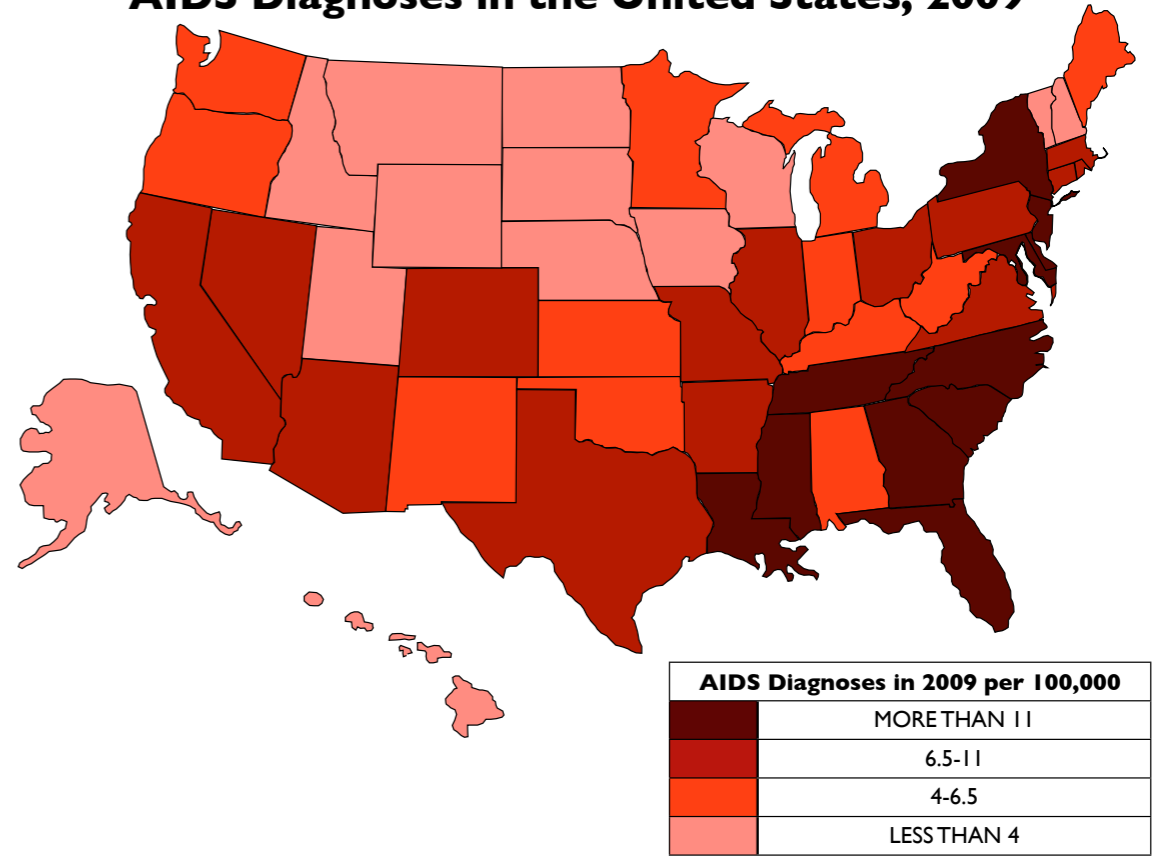
AIDS Diagnoses in the United States, 2009



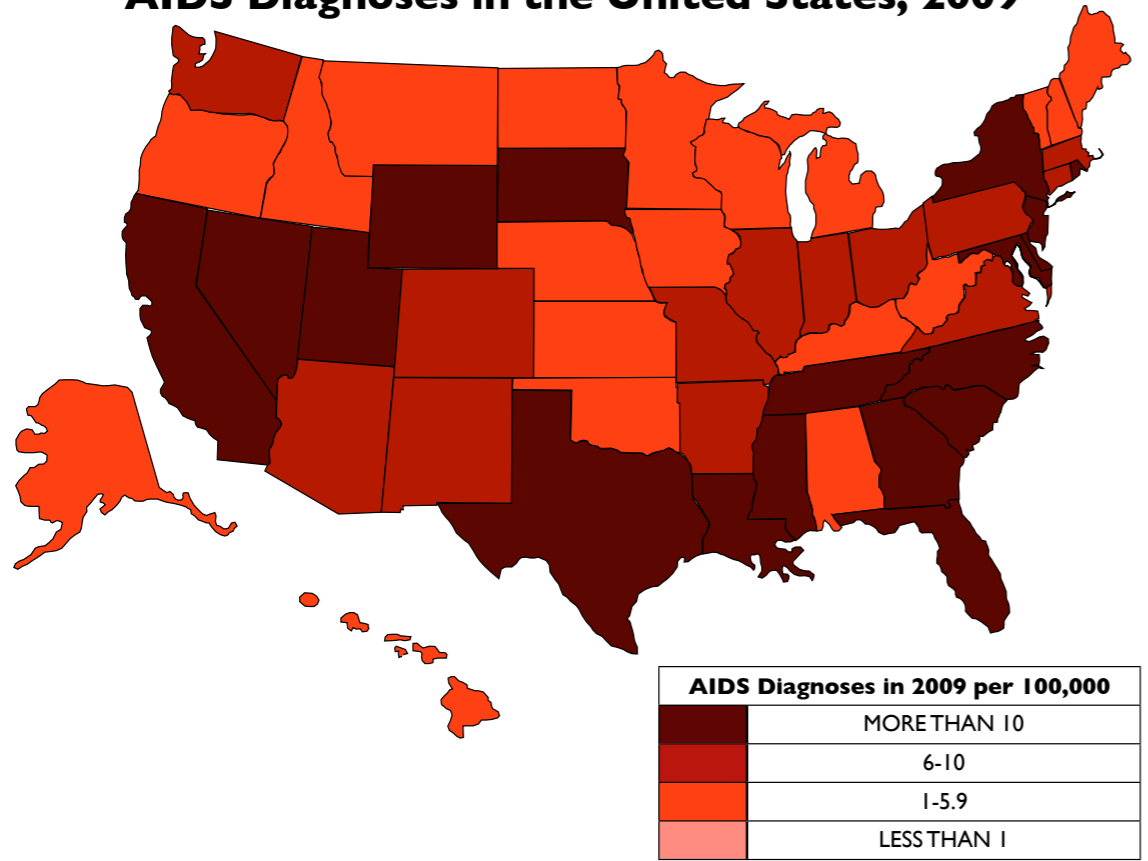
AIDS Diagnoses in the United States, 2009



AIDS Diagnoses in the United States, 2009



AIDS Diagnoses in the United States, 2009



**Same Statistics
Three Different Maps
Which one is better?**