

GR5702

# Exploratory Data Analysis and Visualization

Prof. Joyce Robbins

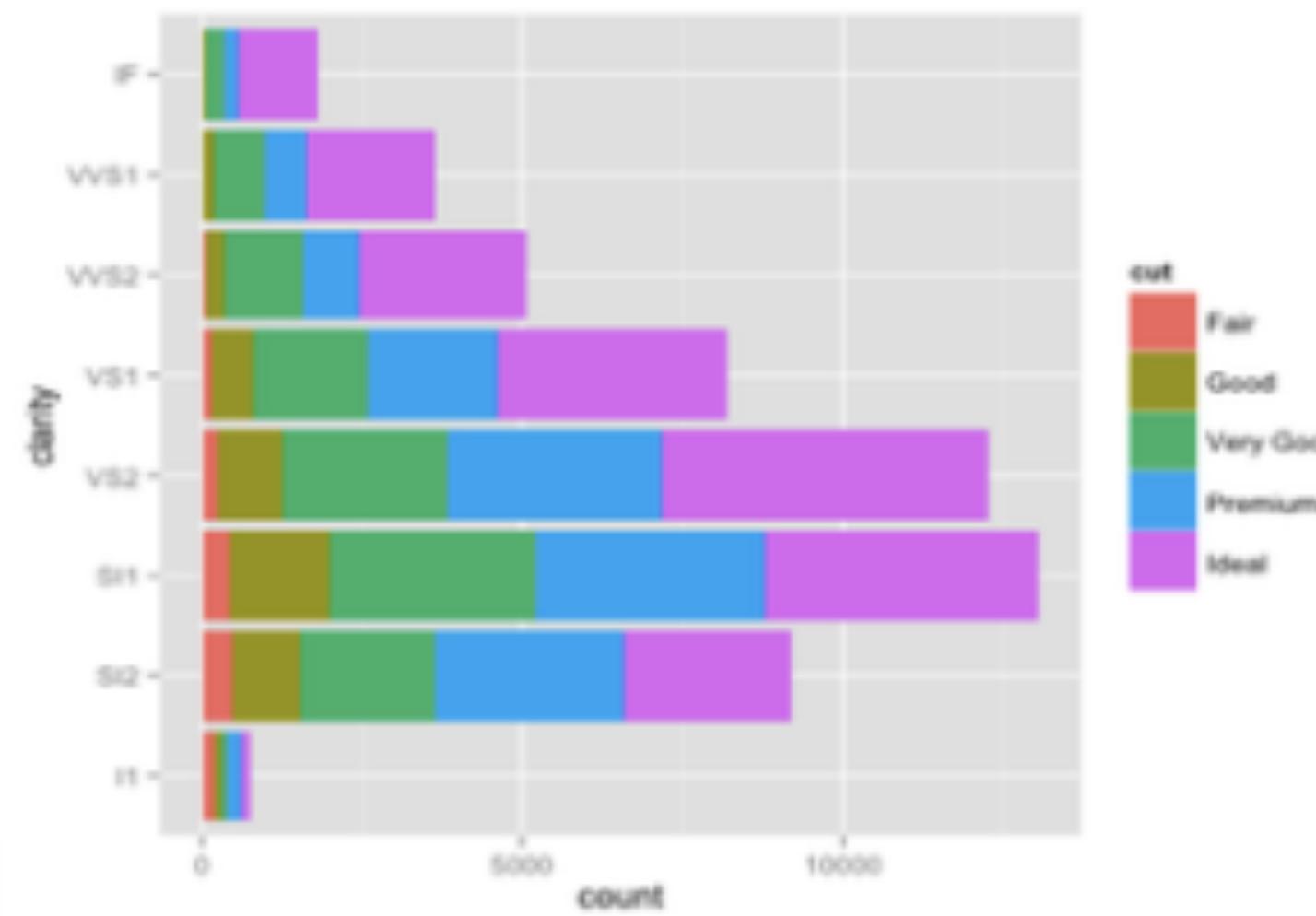
April 4, 2017



Myfanwy  
@Voovarb



guys. GUYS. I'm diving in Palau this week and I've found the  
[#ggplot2](#) fish. [#rstats](#)



9:26 AM · Mar 25, 2015

---

112 RETWEETS

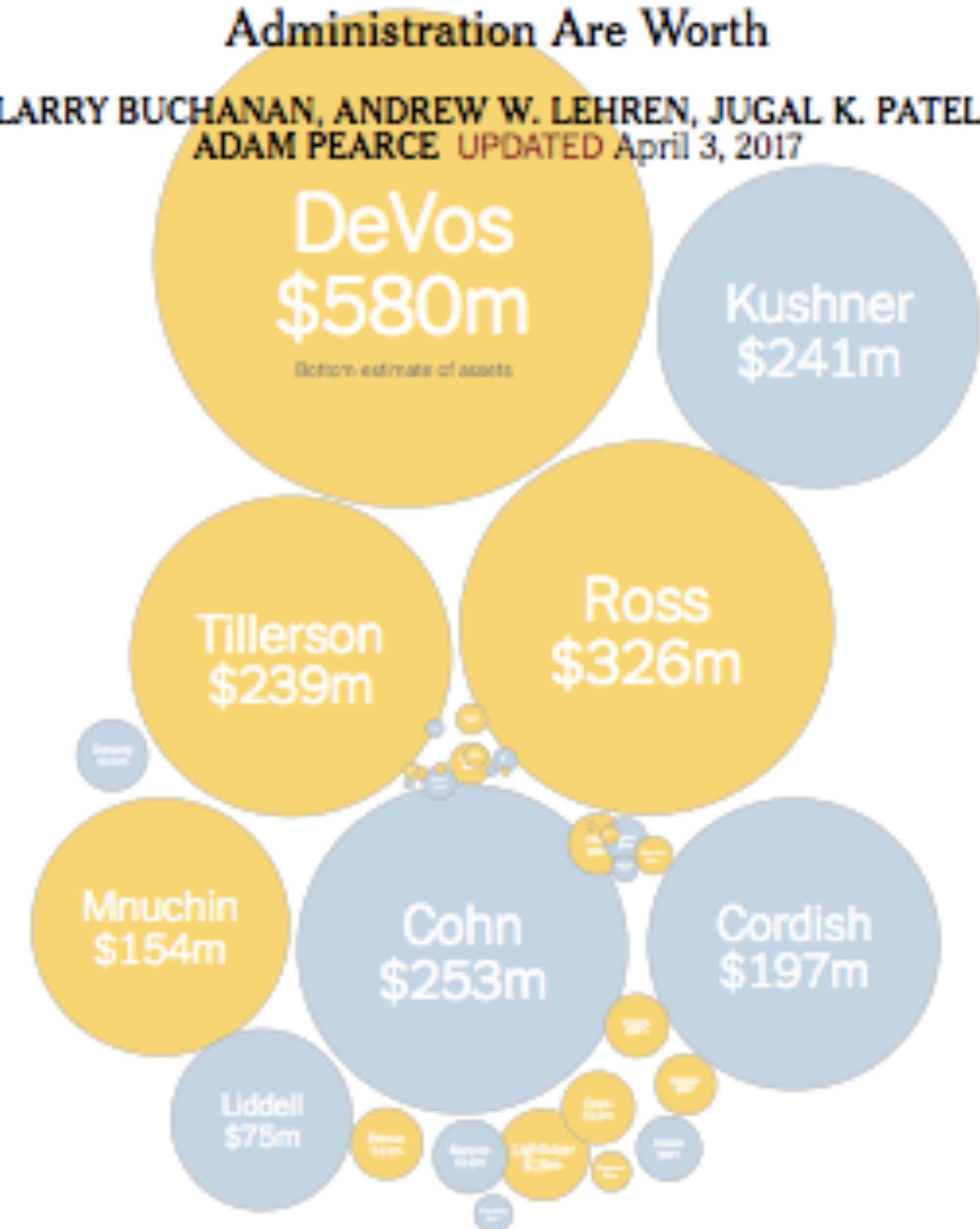
237 LIKES

---

## How Much People in the Trump

### Administration Are Worth

By LARRY BUCHANAN, ANDREW W. LEHREN, JUGAL K. PATEL and ADAM PEARCE UPDATED April 3, 2017

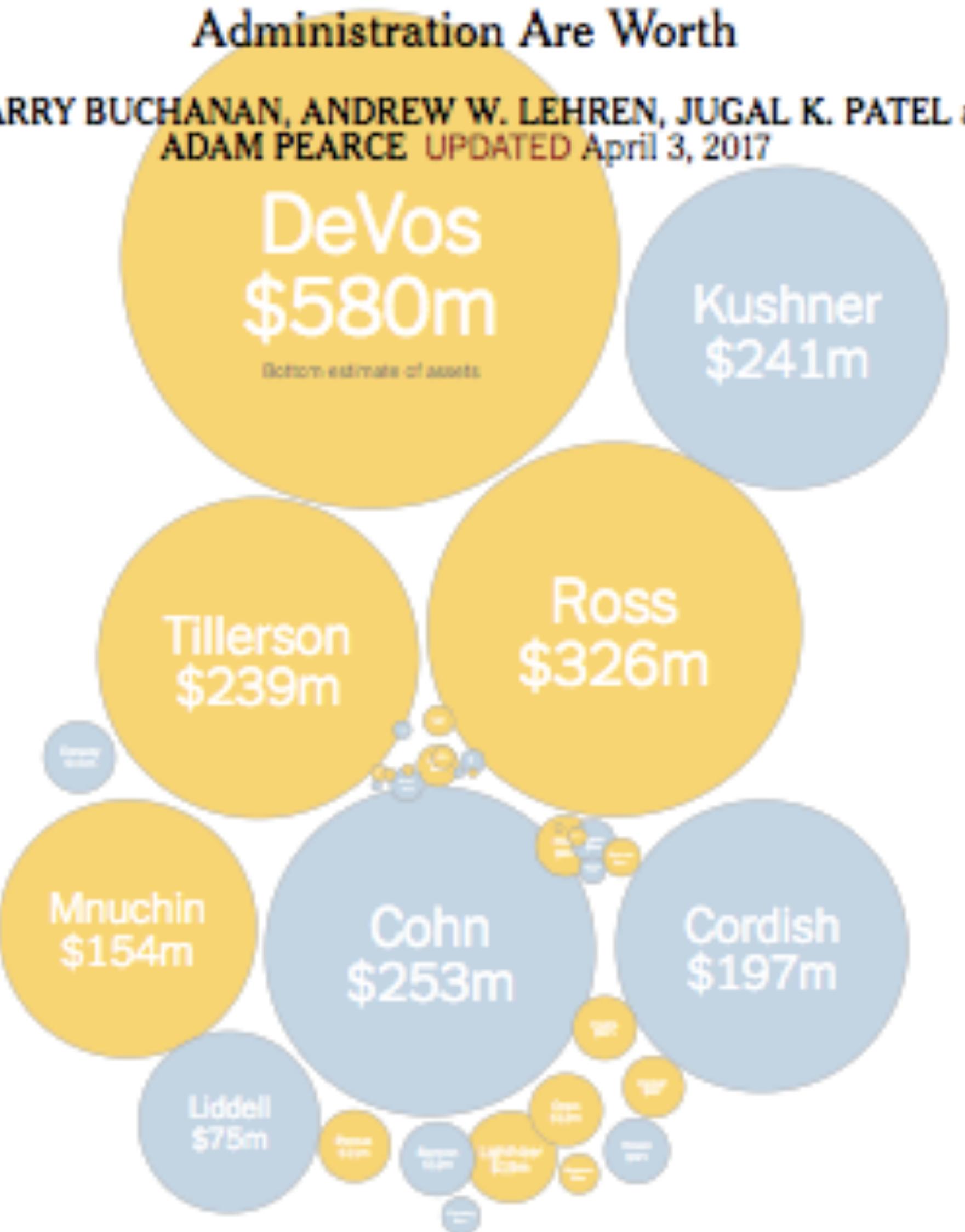


# How Much People in the Trump Administration Are Worth

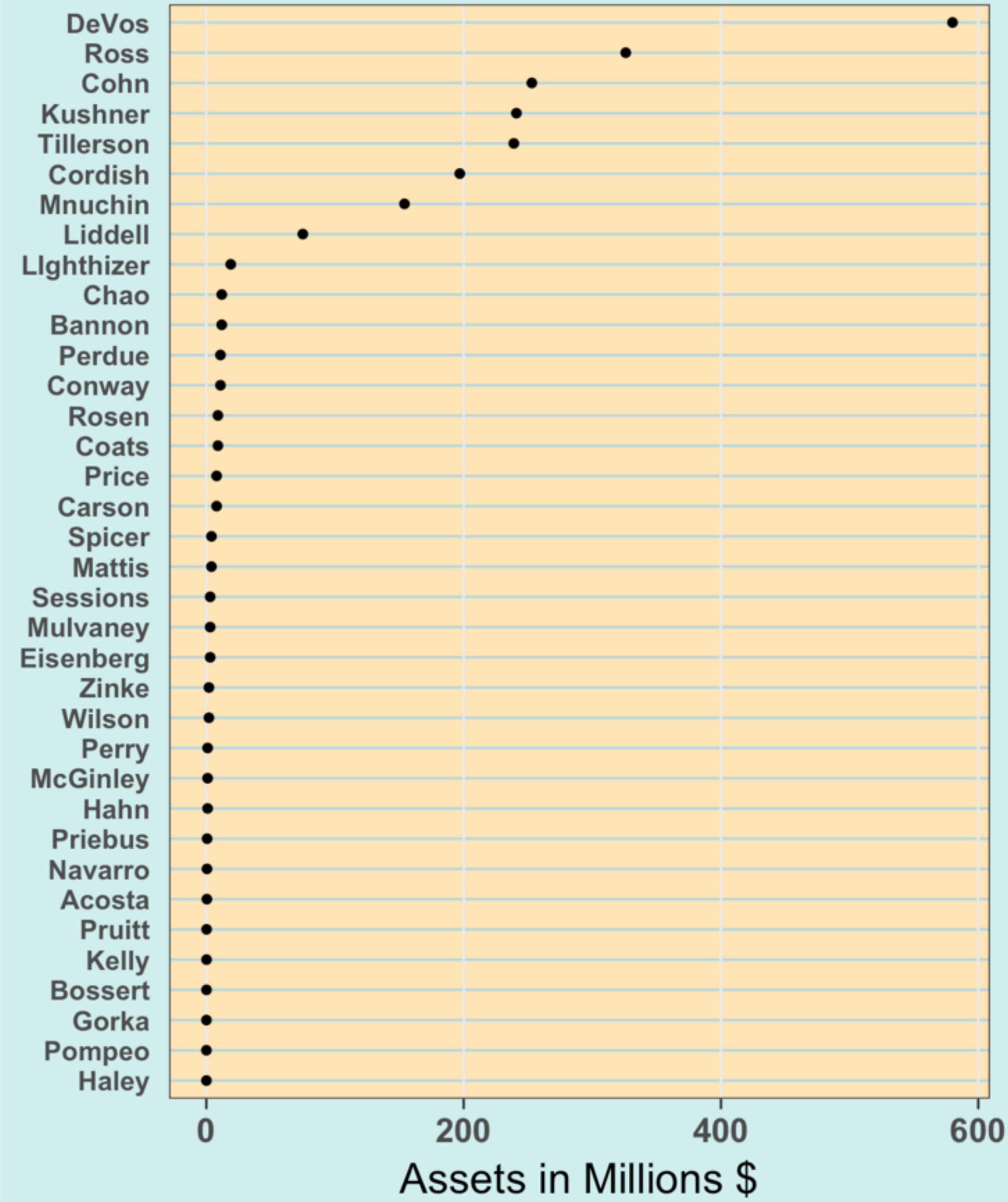
By LARRY BUCHANAN, ANDREW W. LEHREN, JUGAL K. PATEL and ADAM PEARCE | UPDATED April 3, 2017

# How Much People in the Trump Administration Are Worth

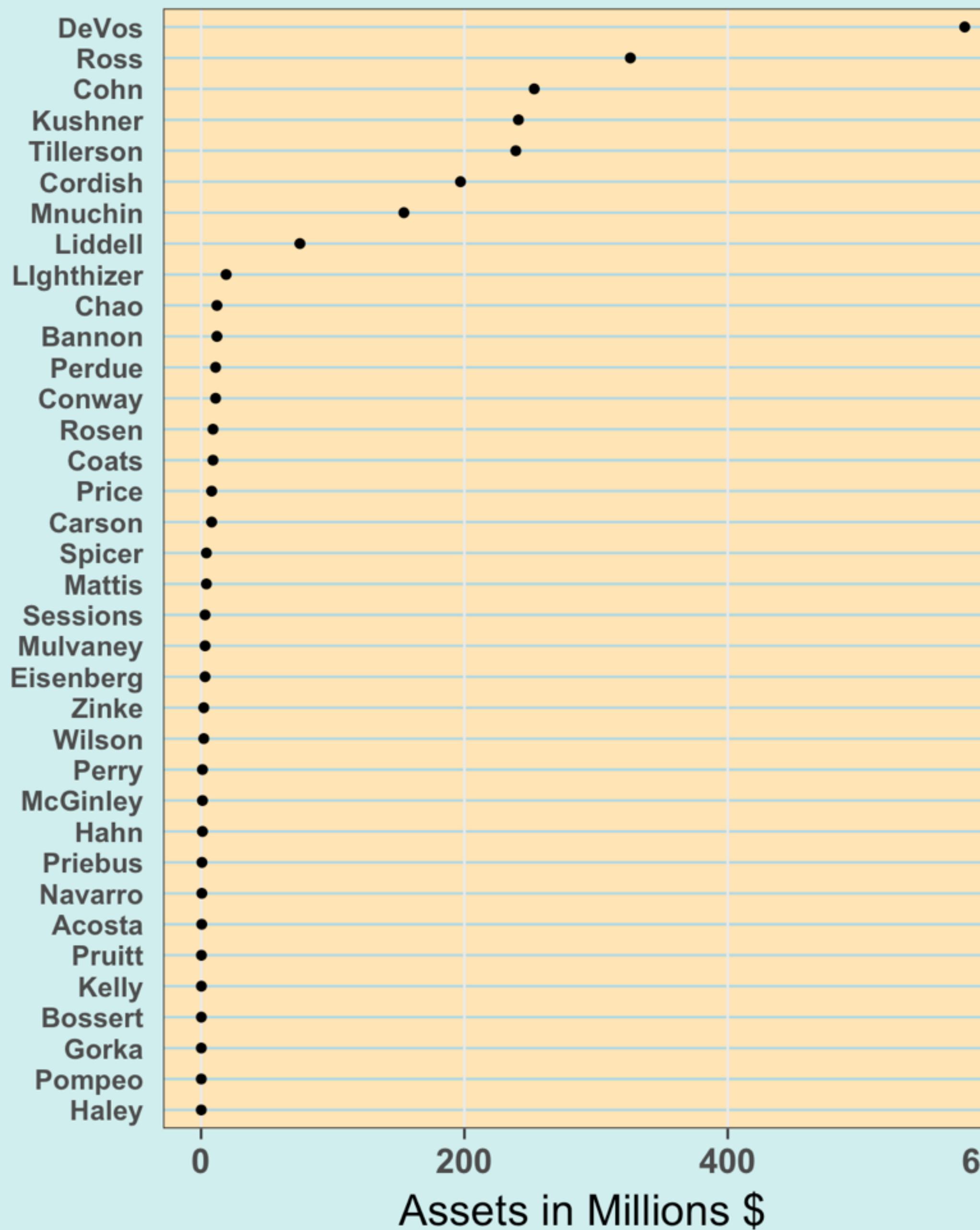
By LARRY BUCHANAN, ANDREW W. LEHREN, JUGAL K. PATEL and ADAM PEARCE UPDATED April 3, 2017



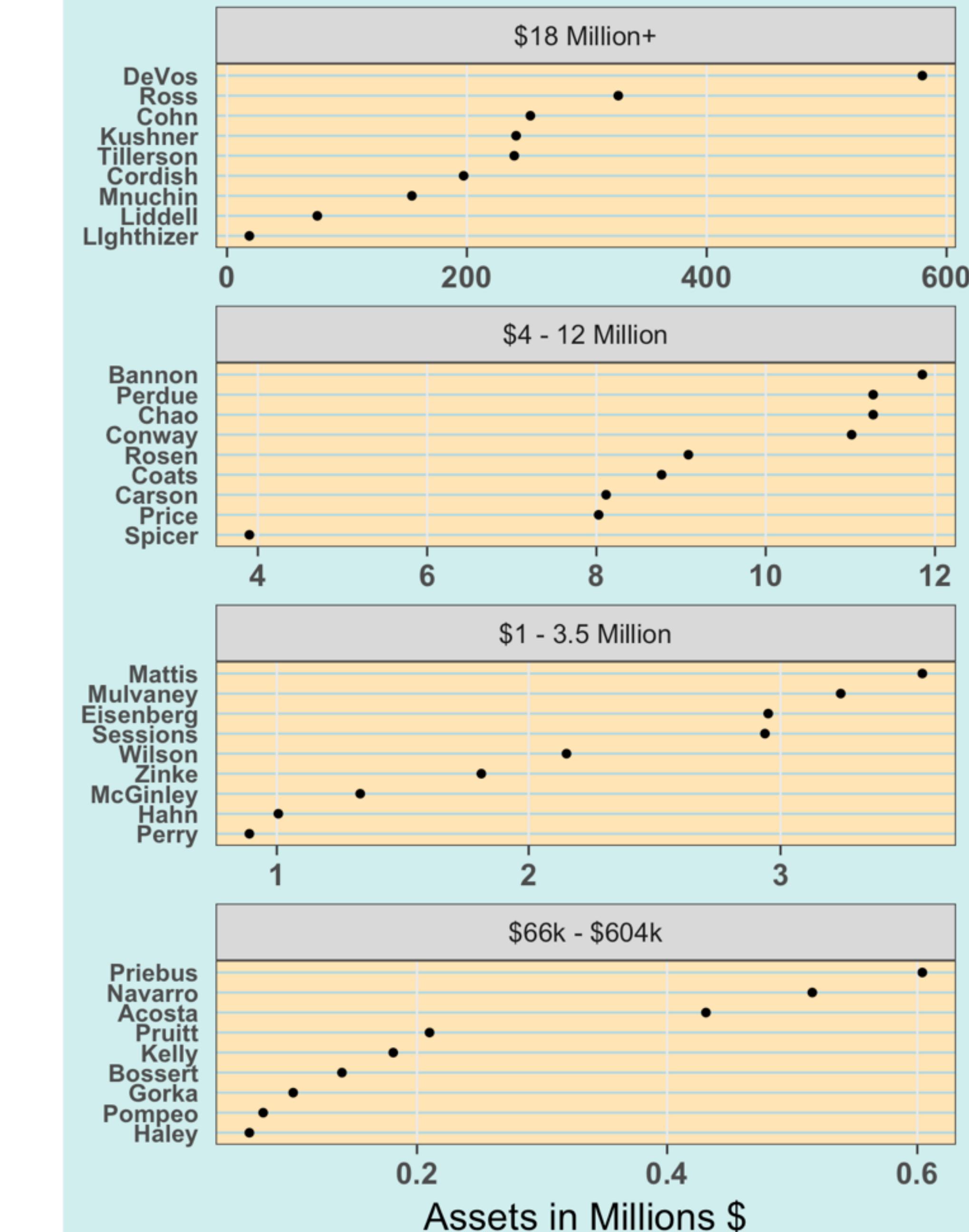
## How Much People in the Trump Administration Are Worth



# How Much People in the Trump Administration Are Worth



# How Much People in the Trump Administration Are Worth



Code for graphs on previous slide: HowMuchPeople.Rmd  
data: DeVos.csv

# Upcoming Guest Lecture

Thursday, April 6:  
Michael Keller,  
journalist at Bloomberg  
<http://mhkeller.com/>

## The Definitely Messy, Probably Solvable Reasons Americans Don't Vote

By Michael Keller and Yvette Romero  
April 4, 2016

Finding one answer can be tricky



<https://www.bloomberg.com/politics/graphics/2016-non-voters/>

# Remaining topics

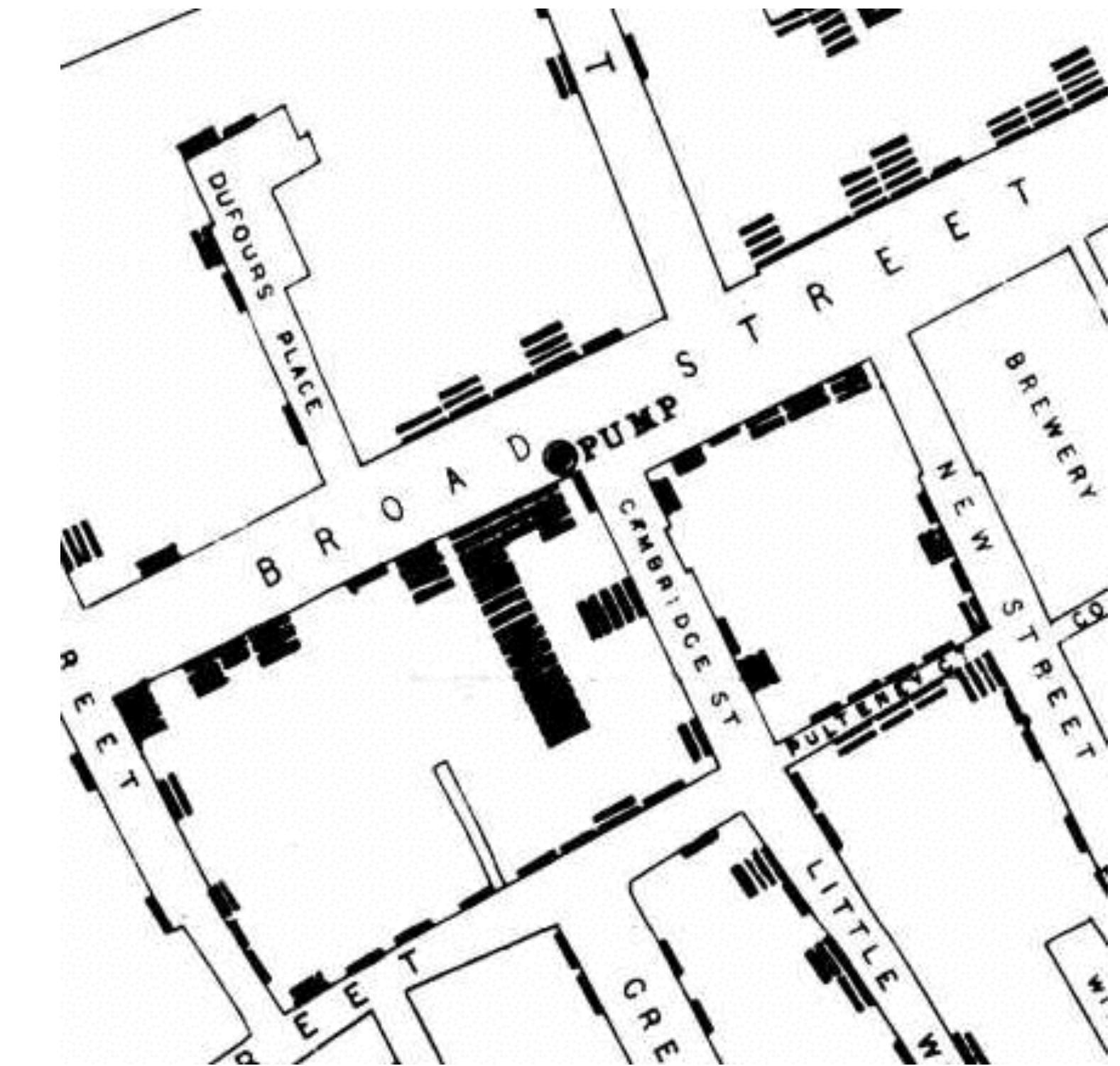
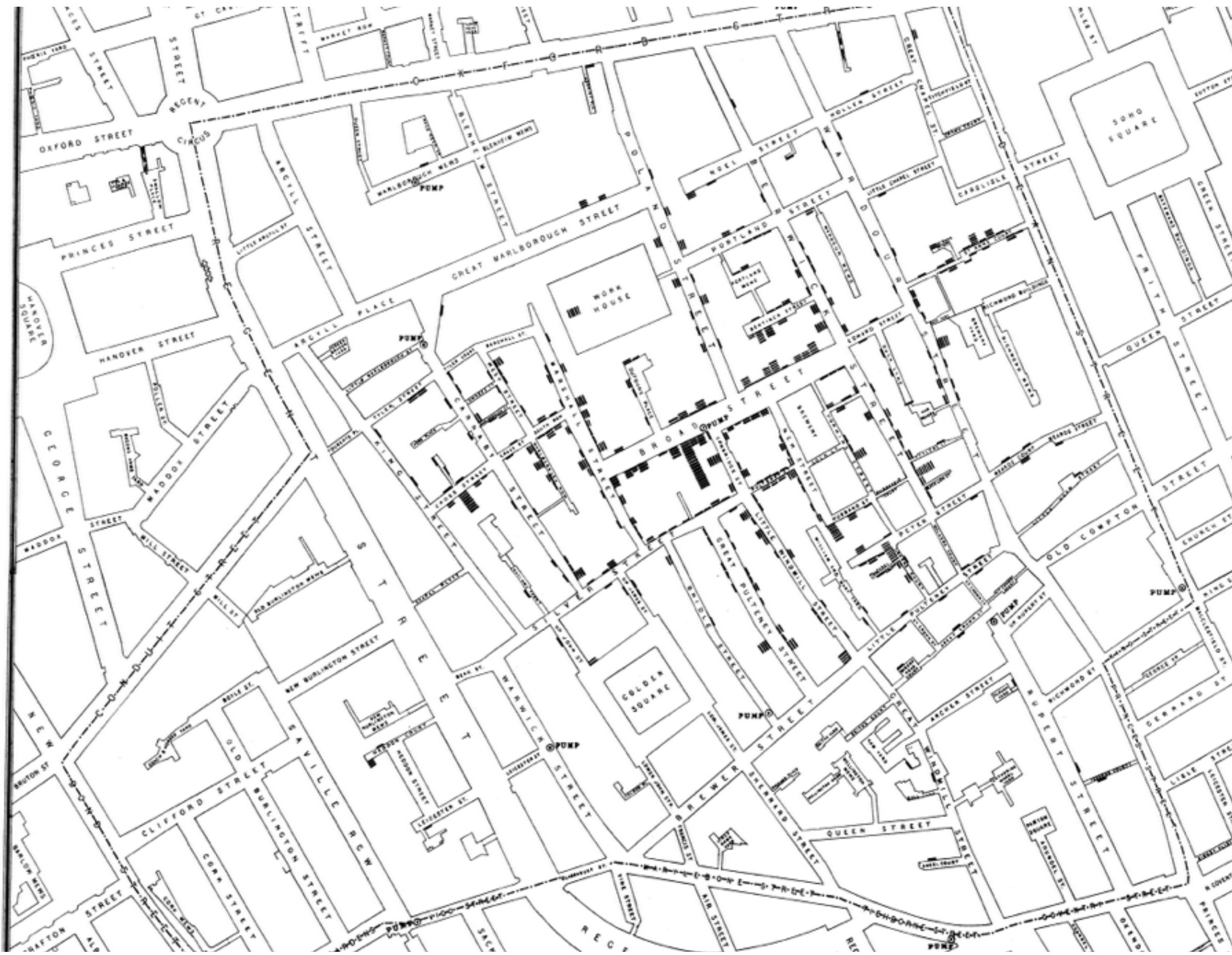
today: maps

upcoming:

more on presentation

interactivity: plotly, D3, and other options

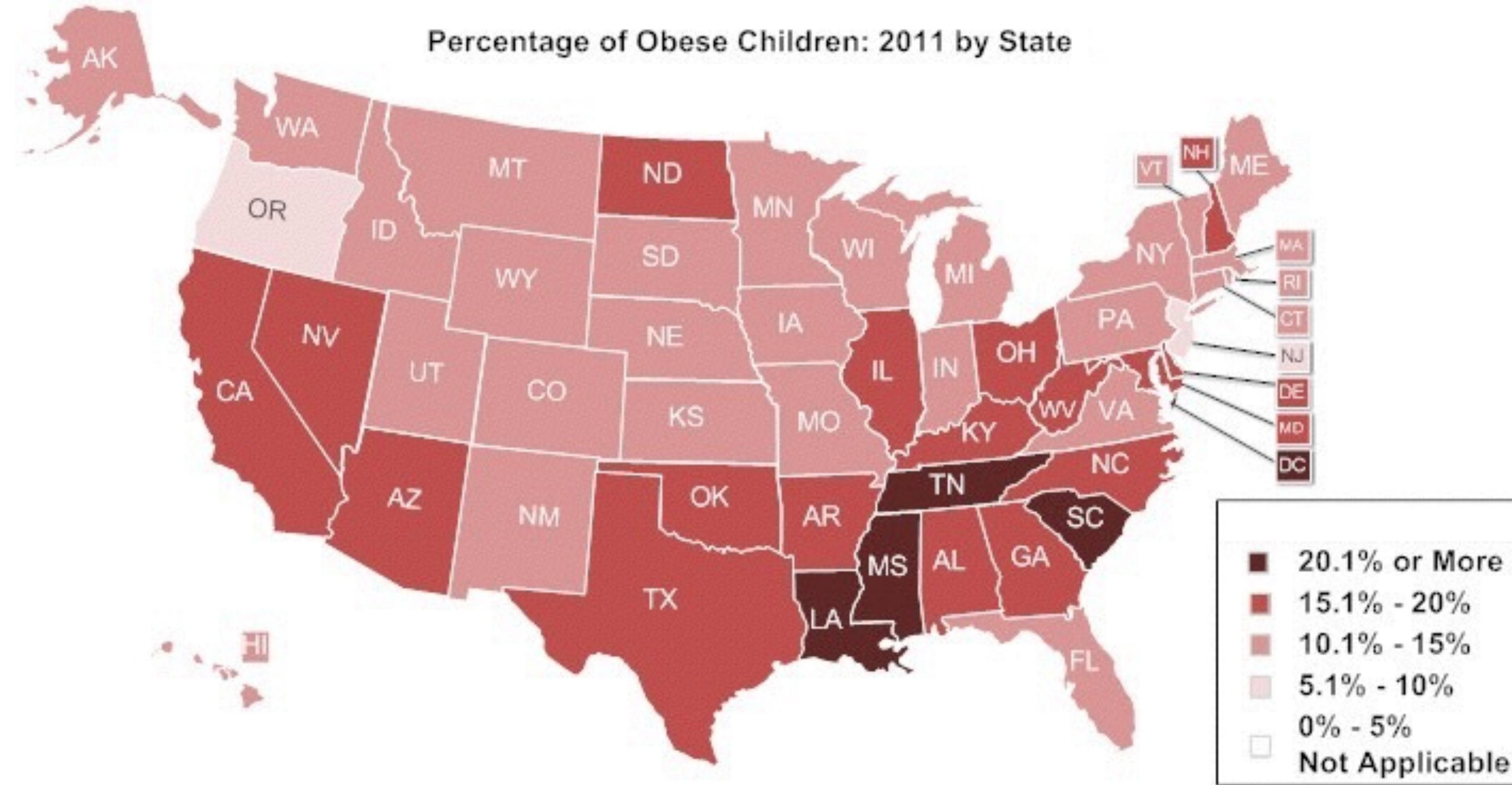
# John Snow, Cholera Map 1854

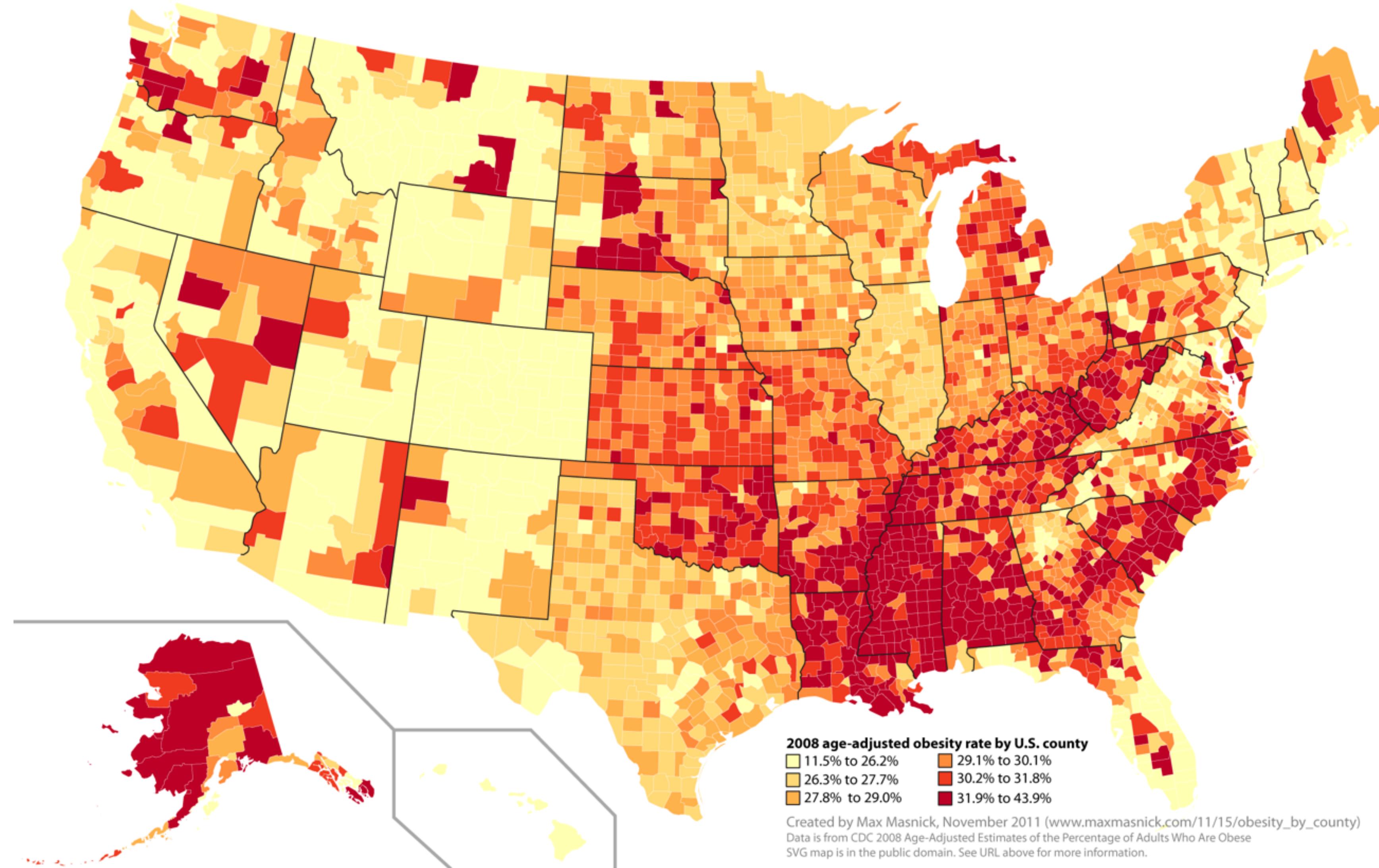


# Locations of printer failures

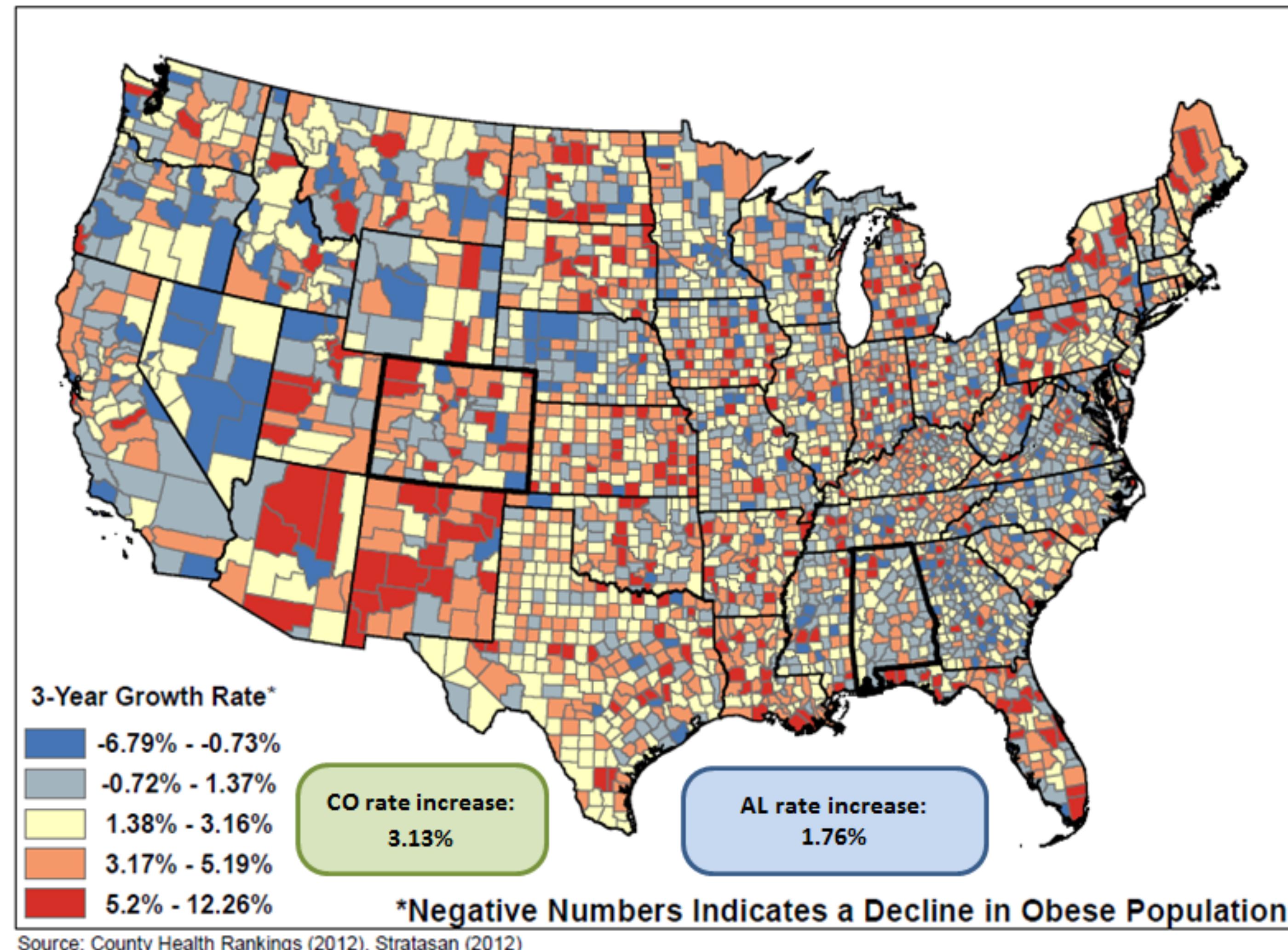


Source: Dick DeVeaux





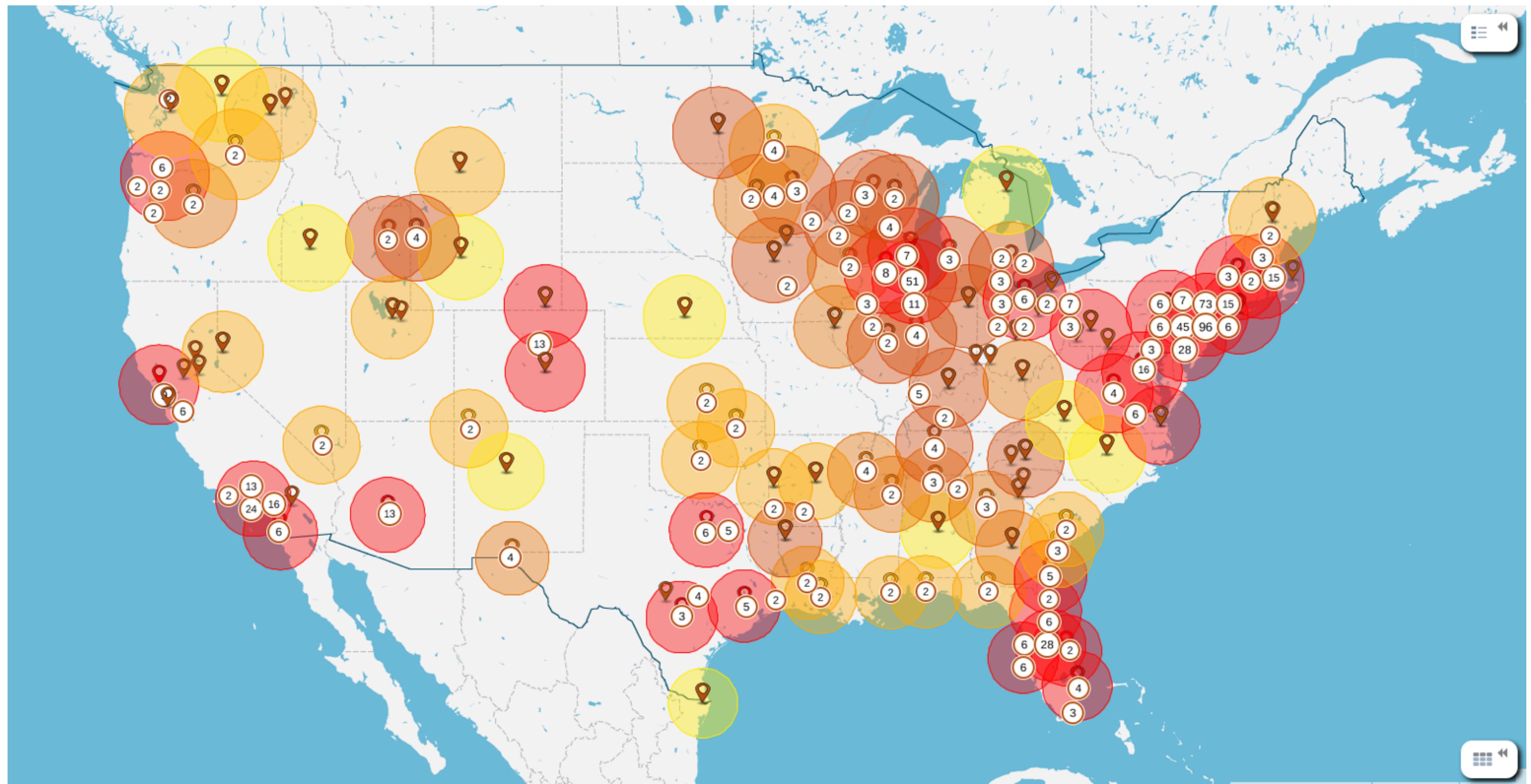
# Obesity Trends by County 2010-2012



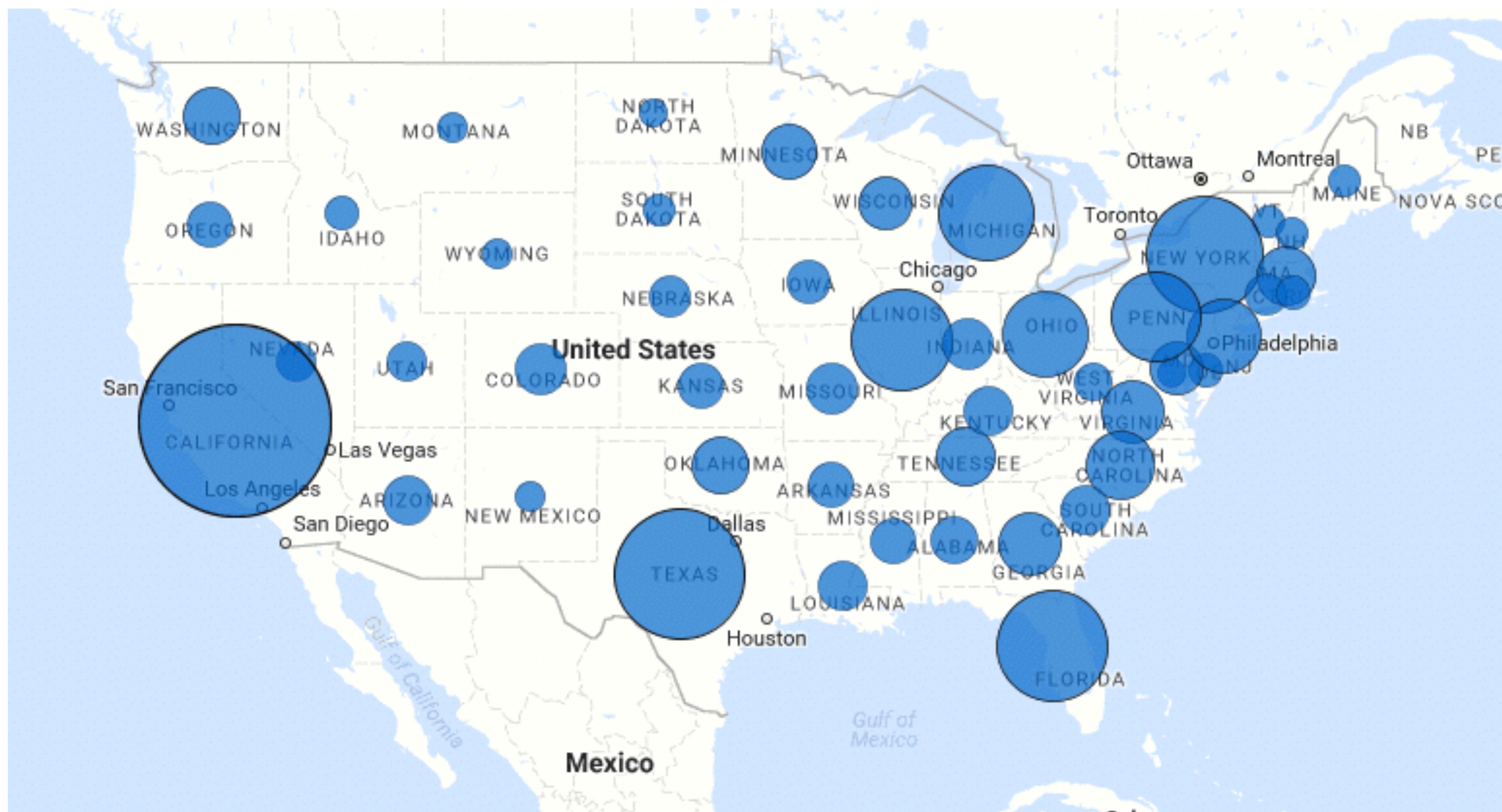
[Standings](#) | [Wild Card Standings](#)

## MLB Standings

American League																
Team	W		L		Pct	GB	Home		Road		East		Central	West	Last 10	Streak
	W	L	W	L			Home	Road	East	Central	West	Last 10				
 Baltimore	1	0	1	0	1.000	-	1 - 0	0 - 0	1 - 0	0 - 0	0 - 0	1 - 0	W 1			
 Boston	1	0	1	0	1.000	-	1 - 0	0 - 0	0 - 0	0 - 0	0 - 0	1 - 0	W 1			
 Tampa Bay	1	0	1	0	1.000	-	1 - 0	0 - 0	1 - 0	0 - 0	0 - 0	1 - 0	W 1			
 NY Yankees	0	1	0	1	.000	1	0 - 0	0 - 1	0 - 1	0 - 0	0 - 0	0 - 1	L 1			
 Toronto	0	1	0	1	.000	1	0 - 0	0 - 1	0 - 1	0 - 0	0 - 0	0 - 1	L 1			

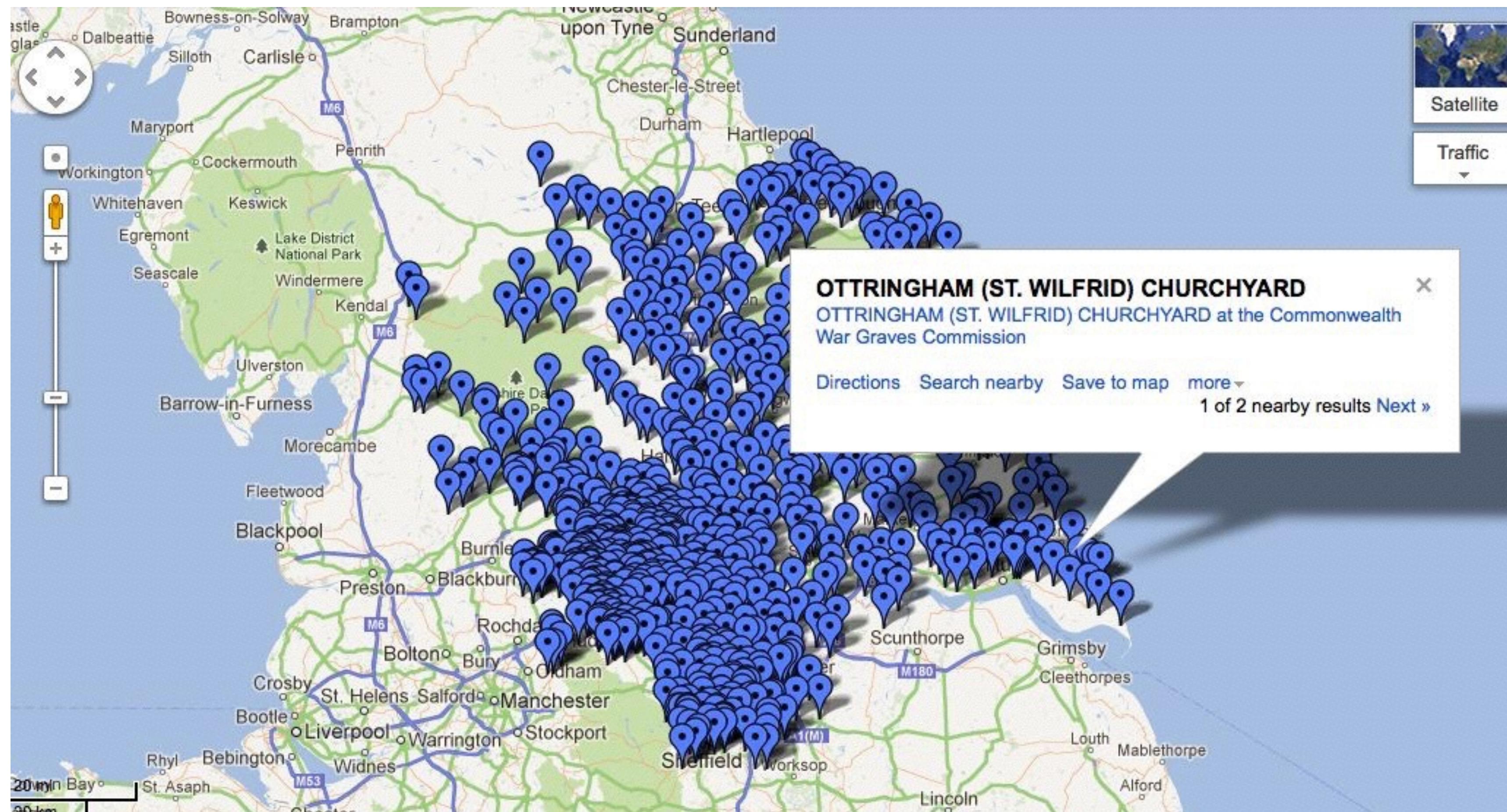


# Radius map





# Push Pin Map



# Record Summer Temperatures, By The Numbers

Published: July 21st, 2012, Last Updated: July 20th, 2012



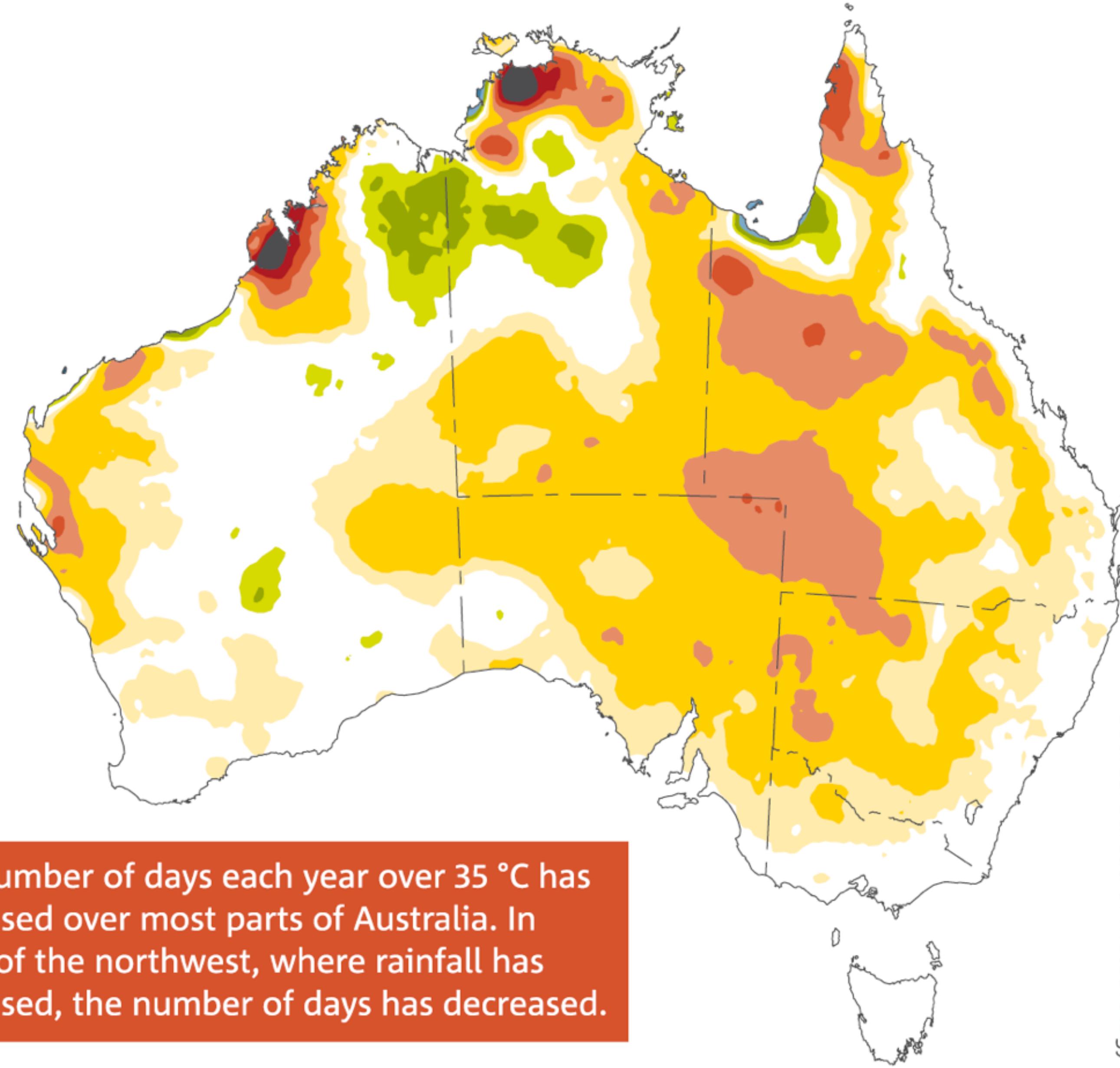
The weather this summer has been so extreme that it has rivaled the most destructive and unbearable summers in U.S. history, years that are infamous in weather lore. Those years include 1934 and 1936, which were in the middle of the Dust Bowl era, as well as 1954 and 1988, which was the year that Yellowstone National Park burned and NASA scientist James Hansen first warned the U.S. Senate about the consequences of manmade global warming.



*Each dot on this map represents a temperature record set during June of 2012. Click on the image for a larger version. Credit: Climate Central.*

As a reporter and analyst on the extreme weather and climate change beat, I've found this summer to be dizzying, with too many extreme events and broken records to count, let alone write about. First it was the heat, then the wildfires, and now the ever-expanding drought that seems intent on swallowing the entire country and kicking off a global food crisis. Oh, and there has been more extreme heat. On Friday, in fact, several states in the High Plains were under heat watches and warnings, but they're used to that by now. After all, this is the summer of sweat. It's also a summer that offers a vivid and disturbing preview of what's to come as a result of manmade global warming.

## Trend in days/year



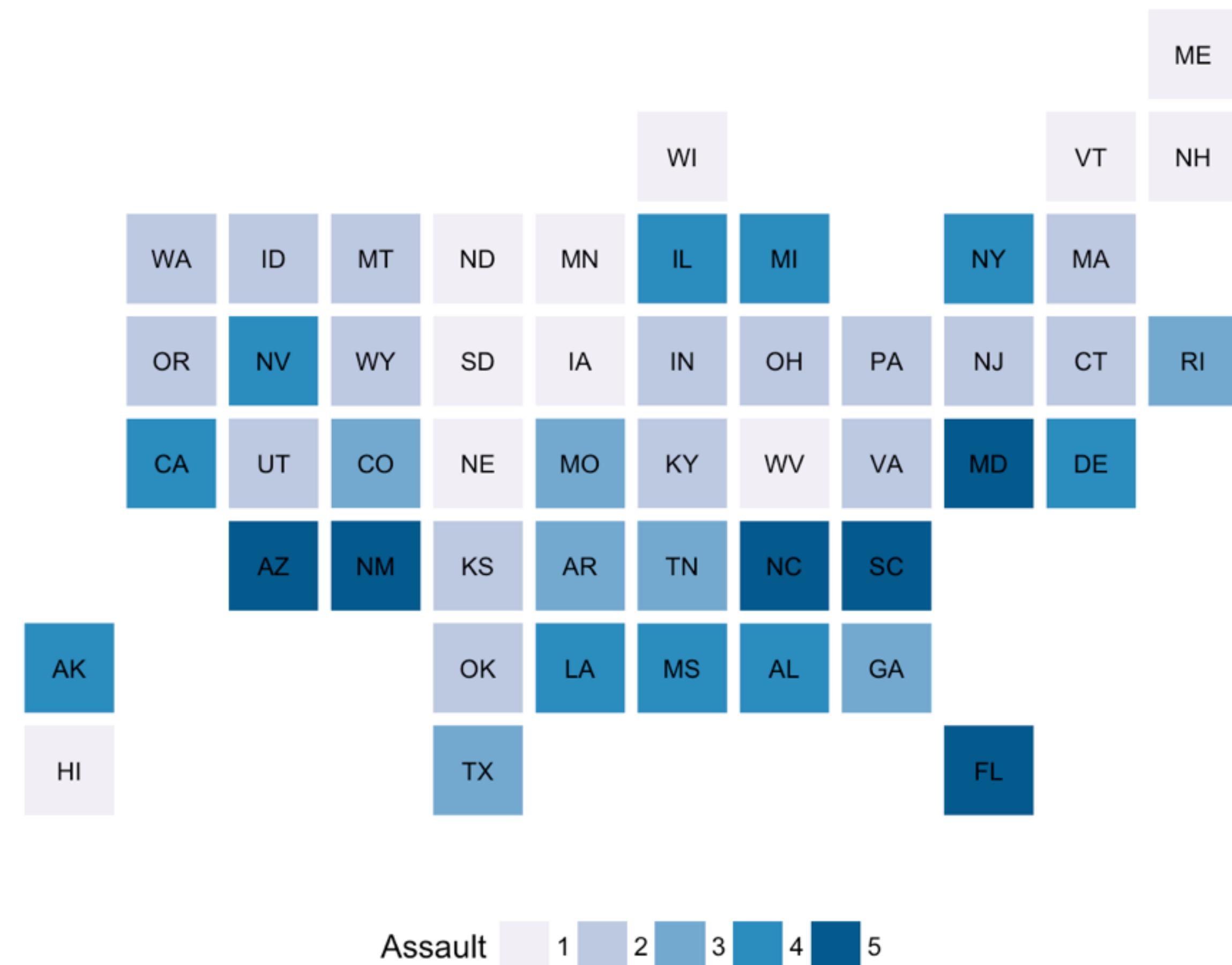
Source: Bureau of Meteorology

The number of days each year over 35 °C has increased over most parts of Australia. In parts of the northwest, where rainfall has increased, the number of days has decreased.

```

library(statebins)
data(USArrests)
USArrests$state <- rownames(USArrests)
statebins(USArrests, value_col="Assault", text_color="black", font_size=3,
          legend_title = "Assault", legend_position="bottom")

```



# See a heatmap of NYC's live music venues



f Share

t Tweet



Got a tip? Send it to [tips@timeout.com](mailto:tips@timeout.com)

