

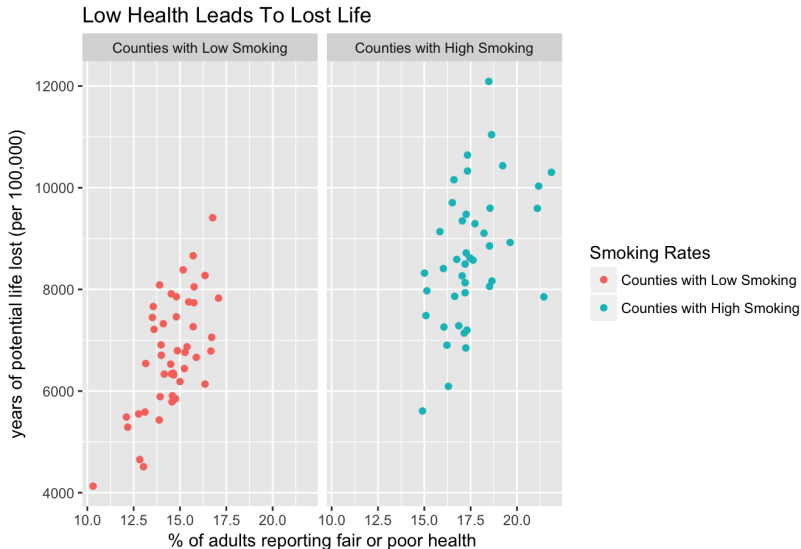
# 2018 Student Visualizations of Ohio County Data

Thomas E. Love

2018-04-01

## Faceted Scatterplots

# Jack McDonnell, “Low Health Leads to Lost Life”

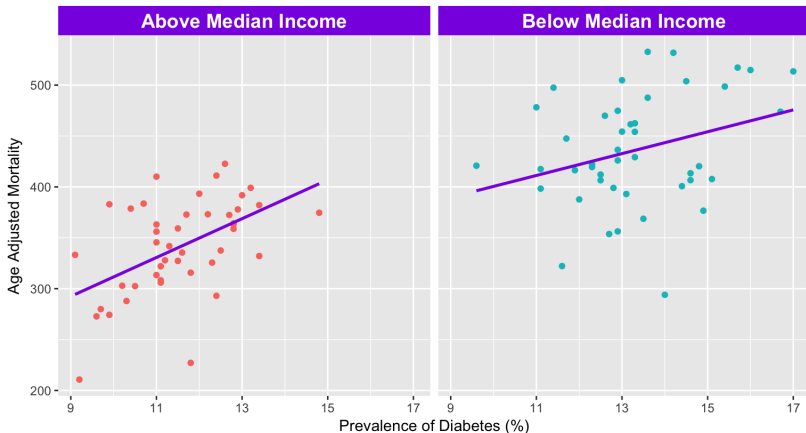


Source: Ohio County Health Rankings report, 2017

# Carli Lehr, “Age-Adjusted Mortality, Diabetes Prevalence and Income”

## Scatterplots of Age-Adjusted Mortality by Diabetes Prevalence

Facetted by Above or Below Median Statewide Income

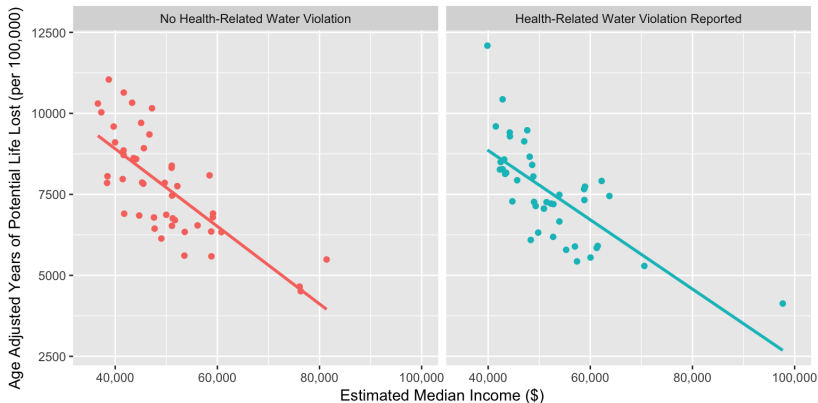


Age-adjusted mortality and prevalence of diabetes were generally lower in counties above the median income

# Laura Baldassari, “Age-Adjusted Years of Potential Life Lost by Median Income and Water Violations”

## Age-Adjusted Years of Potential Life Lost by Median Income in Ohio Counties

By presence of health-related drinking water violation, with fitted linear regression model

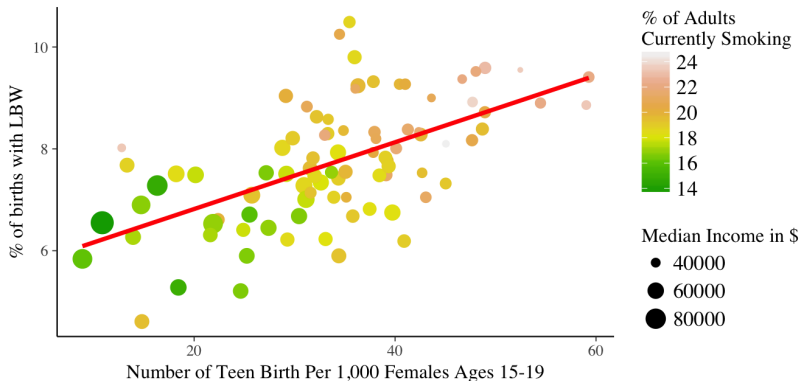


Counties in Ohio with a higher estimated median income had lower age-adjusted years of potential life lost. This association did not appear to be impacted by the presence of a health-related water violation (Pearson  $r = -0.75$  &  $-0.72$  for association without and with water violation, respectively)

Using Size and Shading

# Khaled Alayed, “Low Birth Weight Births and Teen Births, Income and Smoking”

The Relationship Between LBW Births  
and Teen Births, Income and Smoking in All Ohio Counties



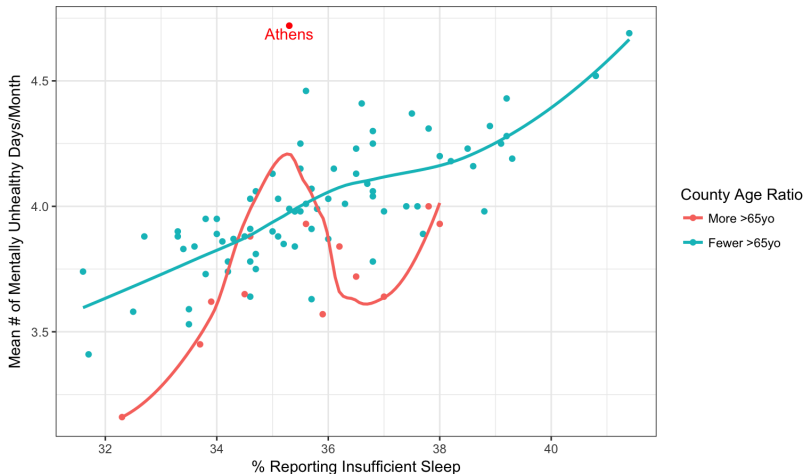
This is an illustration for the relationship between percentage of LBW births in Ohio counties with number of teen births per 1,000 females ages 15-19 (x-axis point position), estimated median income (point size) and % of adults currently smoking (point color). The line is linear regression between new fitted values and teen births.

## Labeled Scatterplots



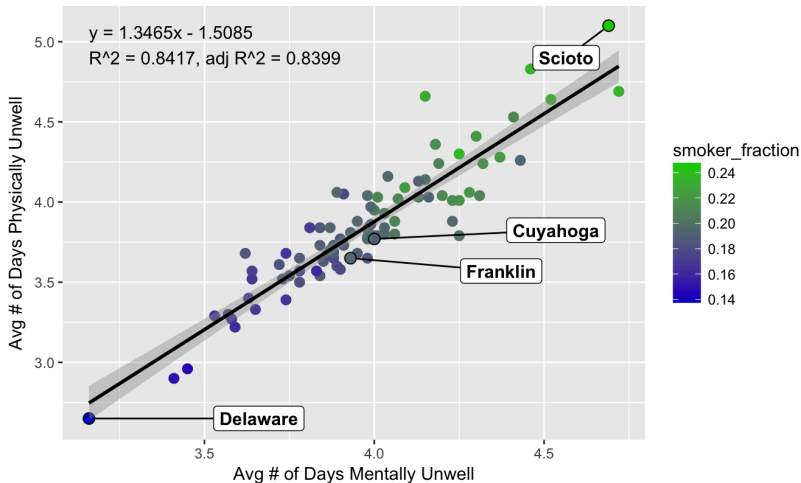
# Jenny Feng, "Age, Sleep and Mental Health"

Association Between Age, Sleep, and Mental Health



# Elina Misicka, “Average Number of Days Spent Unwell by Ohio County”

Average Number of Days Spent Unwell by Ohio County



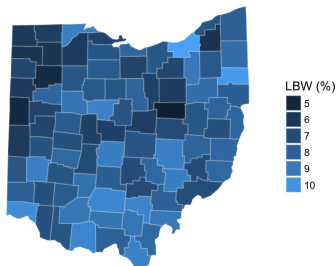
There is a strong correlation between mean days spent physically unwell and mean days spent mentally unwell per month by county. As a county's fraction of adult smokers increases, so does the number of days spent unwell.

Using a Map to Describe the Most Important  
Issue

# Katherine Dobbs, “Low Birth Weight, Poverty and % African-American”

A

Ohio Rates of Low Birth Weight, 2017



B

County Low Birth Weight and Poverty

