horizontal line

**Brodie Armstrong**

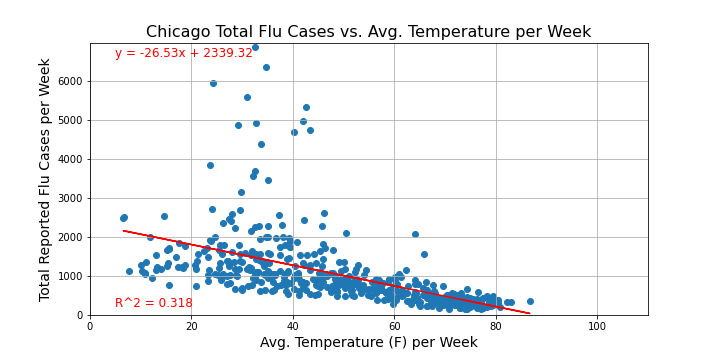
**Beth Emborsky**

Flu Influences by Weather

**25th June 2020**

# Relationship Between ILI Cases and Temperature

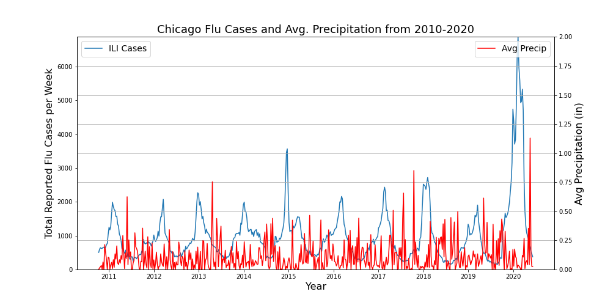
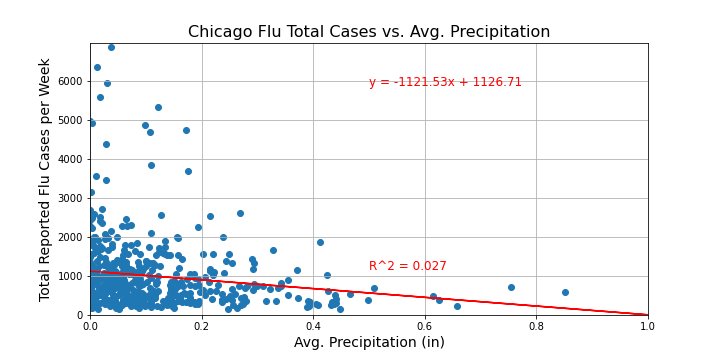
It is clear that temperature has an impact on how many cases of influenza-like illness (ILI) were diagnosed in the all the cities in the U.S. that we examined. Each year, as the average temperatures started to get colder in the winter months, the number of reported flu cases increased. Here is the city of Chicago’s data showing this relationship:

A picture containing water, large, group, red

Description automatically generated

# Relationship Between ILI Cases and Precipitation Totals

Unlike temperature, precipitation totals did not show an obvious trend associated with cases of influenza-like illness in the cities that we examined (except for maybe Denver, LA, and San Francisco which showed some small influence). Here is Chicago’s data showcasing no real trends:



# Relationship Between Total Positive Flu Tests and Temperature

As expected, the average number of positive flu tests per week was shown to have the same trend as the reported ILI numbers did above. Here is Chicago’s data to show the similar trend:

