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**Lab 5C: Monitoring the Future: Time Series**

V2104D provides student responses to the question:

On how many occasions (if any) have you had alcoholic beverages to drink--more than just a few sips in your lifetime?

Responses: 0 = No and 1 = Yes

(This variable was recoded by ICPSR. The original variable, v2104, had 7 possible responses which ranged from 0 Occas to 40+ Occas.)

In the Data folder, you will find a folder MTF Project Data. In that folder you will find MTF Data and Codebooks going back many years. Usually variables from different years have approximately the same names. In the case of variable V2104D, it was only recoded into two outcomes back to 2013 – you could get these data for other years but you would have to combine categories on your own. I’m not going to ask you to do that here.

1. Make a time series for the non-drinking (No) response percentages from 2013 – 2019.

Chart, line chart

Description automatically generated

1. Overlay a time series for the drinking (Yes) response percentages for the same years.

Chart, line chart

Description automatically generated

1. Write a few sentences on any patterns that you see from your time series.

Chart, line chart

Description automatically generated

From this time series I can tell that as the percent of Drinkers went down through the years, the percent of Non-Drinkers went up.

More specifically, the viewer can notice that from 2013-2016, the percentage of drinkers was going down drastically (69% to 62%), then there was a small spike in the year 2017 (63%), but then the drinker’s percentage went back down to 60% in 2018. The viewer can see that there is a slight increase from the 2018 to 2019.

The viewer can get the same information from the Non-Drinkers.

The viewer can conclude that from 2013-2019, the percent of people that are drinkers has decreased.