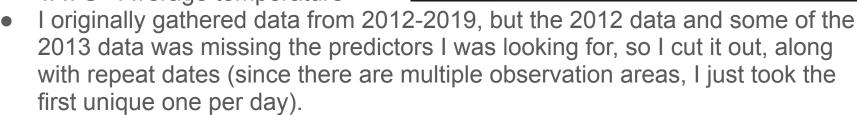
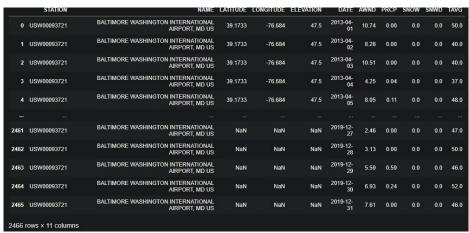
## Traffic and Weather Conditions in D.C.

Traffic and inclement weather tend not to mix. My goal is to observe interactions between the two, by looking at which factors in the weather have the most significant impacts on the number of crashes.

## Weather Data

- 2466 entries (2013-04 to 2019)
- Some of the data isn't particularly useful (but may be nice to have)
- AWND Average wind speed
- PRCP Precipitation
- SNWD Snow Depth
- SNOW Snowfall
- TAVG Average temperature





## Crash Data

- Fully cleaned data
- Removed data prior to 2013/04/01 and after 2019/12/31
- Derives year/month/day from ReportDate
- Derives CrashCount through a groupby on ReportDate
- Removes 59 columns

	ReportDate	CrashCount	Year	Month	Day
0	2013/04/01	49	2013	04	01
1	2013/04/02	35	2013	04	02
2	2013/04/03	49	2013	04	03
3	2013/04/04	38	2013	04	04
4	2013/04/05	60	2013	04	05
5	2013/04/06	49	2013	04	06
6	2013/04/07	52	2013	04	07
7	2013/04/08	64	2013	04	80
8	2013/04/09	59	2013	04	09
9	2013/04/10	70	2013	04	10
10	2013/04/11	55	2013	04	11
11	2013/04/12	49	2013	04	12
12	2013/04/13	53	2013	04	13
13	2013/04/14	58	2013	04	14
14	2013/04/15	52	2013	04	15
15	2013/04/16	46	2013	04	16
16	2013/04/17	62	2013	04	17
17	2013/04/18	64	2013	04	18
18	2013/04/19	73	2013	04	19
19	2013/04/20	47	2013	04	20
20	2013/04/21	40	2013	04	21
21	2013/04/22	52	2013	04	22
22	2013/04/23	46	2013	04	23
23	2013/04/24	47	2013	04	24
24	2013/04/25	65	2013	04	25

## Solution

- Determine which of the factors most influence crashes by creating a model to predict crashes
- Plot scores of each feature side by side