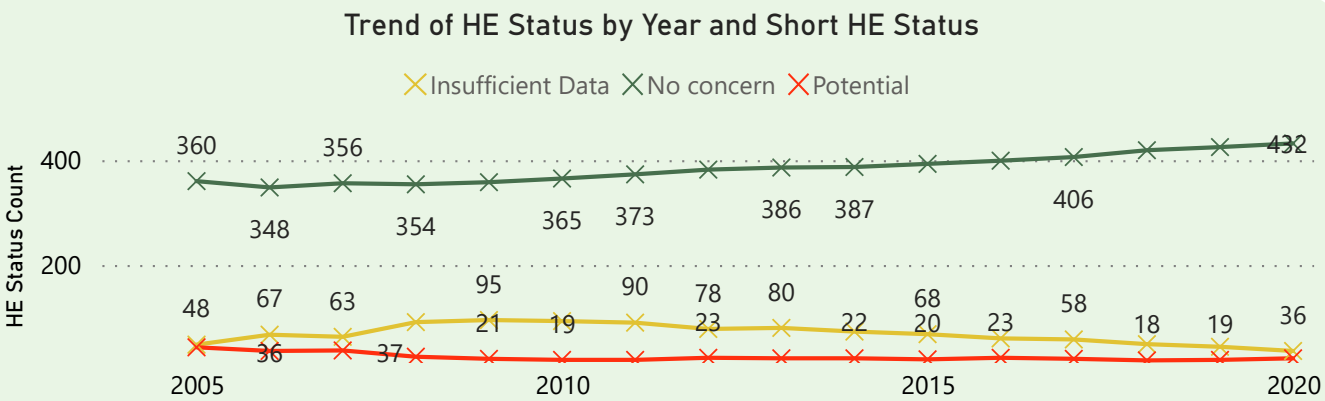
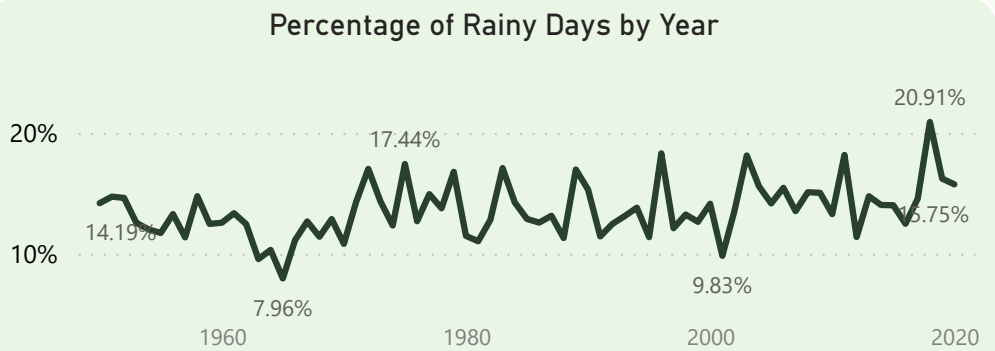


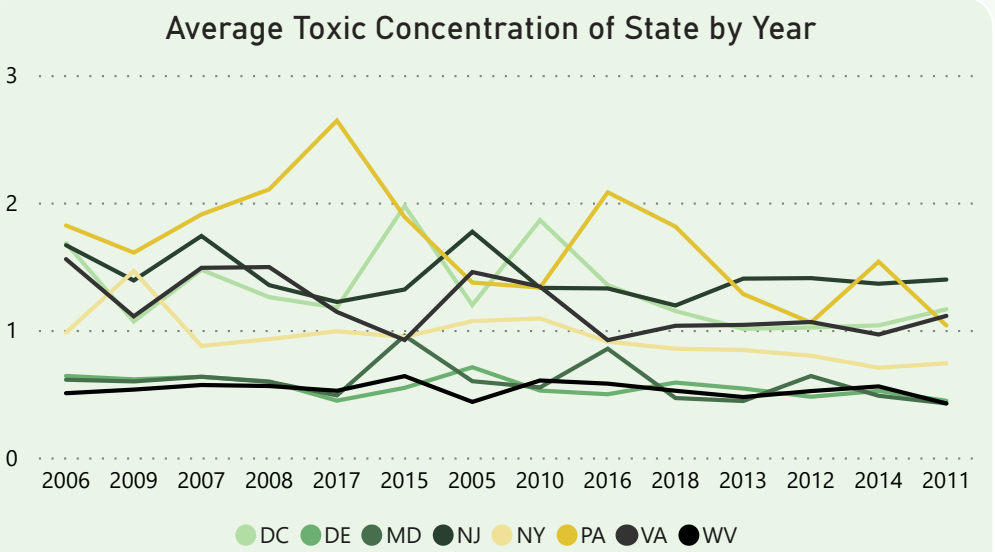
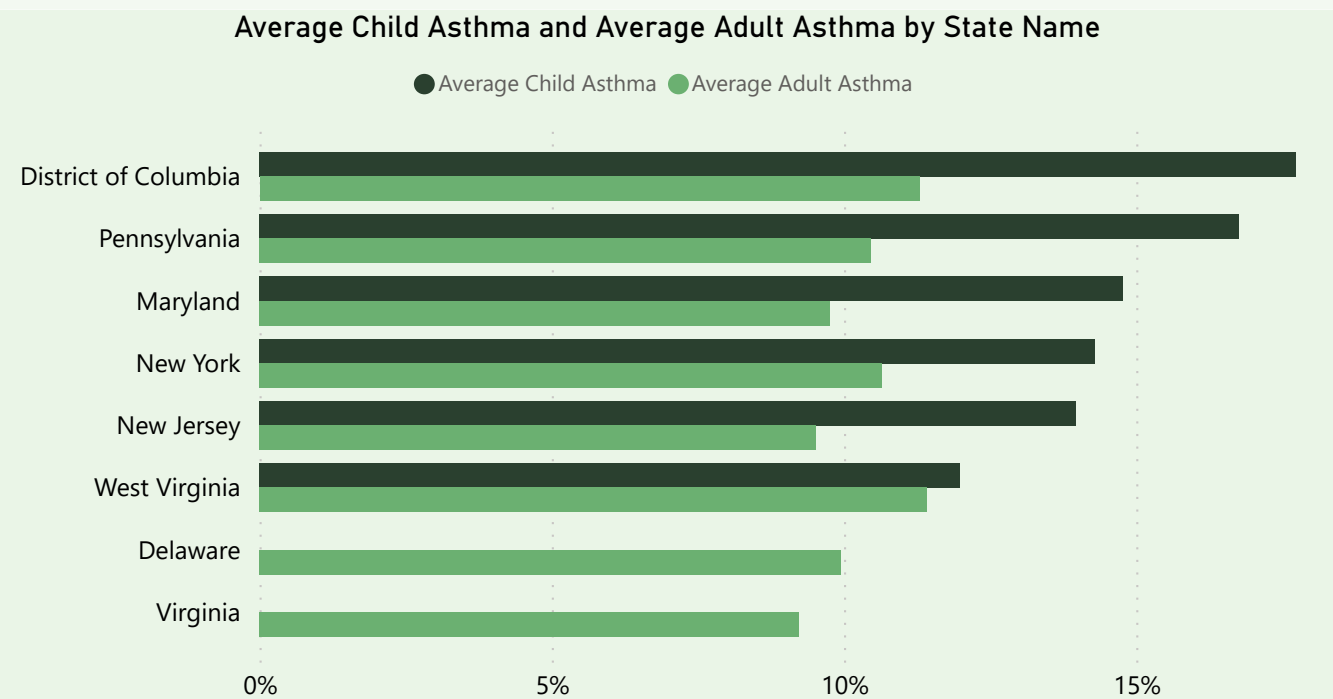
The potential for human exposure to contamination is trending down over the years



The amount of rainfall has fluctuated but overall increased over years



Children are more vulnerable to asthma than adults



UNPREDICTABLE TOXIC Concentration in the Air of state over the years!

Adult Asthma

DC

DE

MD

NJ

NY

PA

VA

WV

14175

Total Count (Adult Asthma)

10.19%

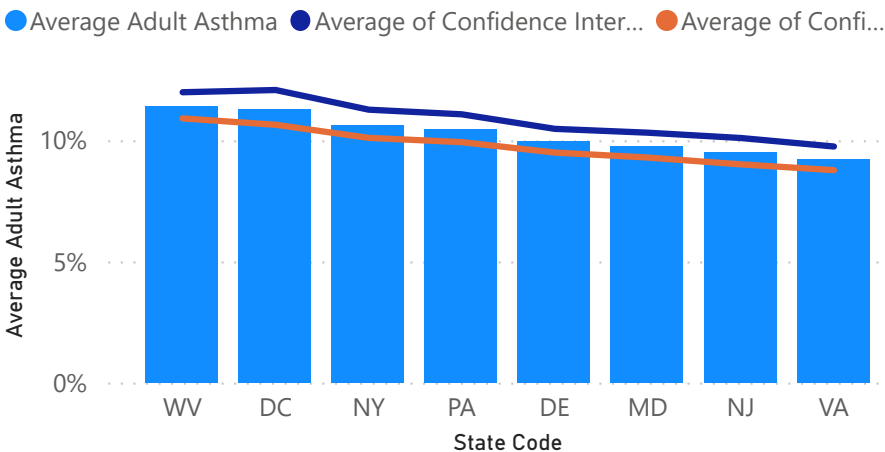
Average Adult Asthma

171

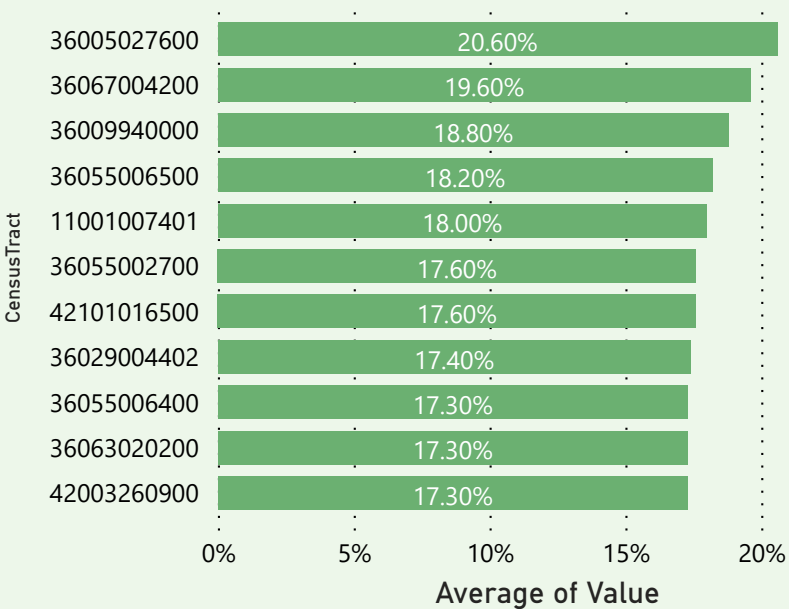
Number of tract over 15%

→ Child Asthma

% of Adult Asthma and confident interval



Top 10 Census Tract for Adult



State population with Asthma



Child Asthma

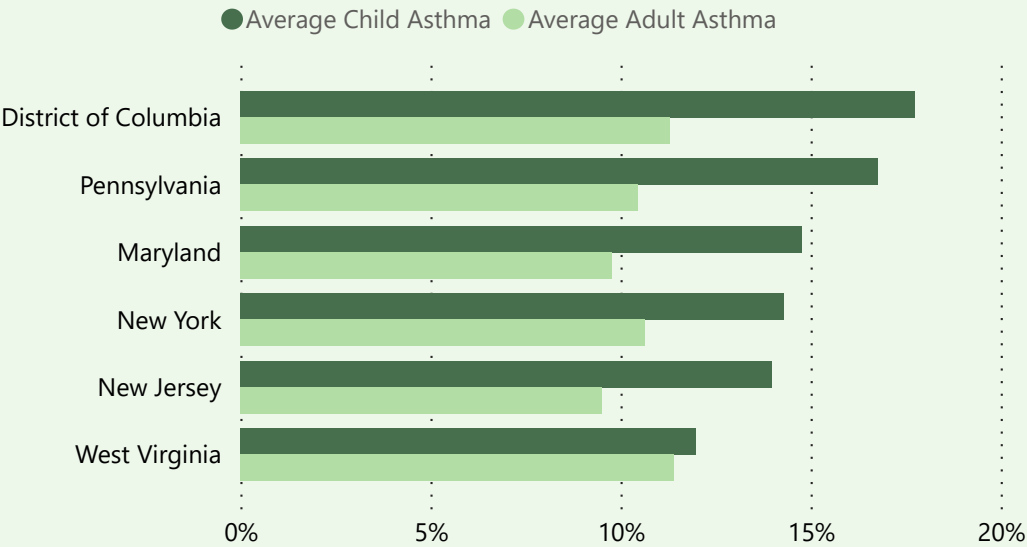


15.15%

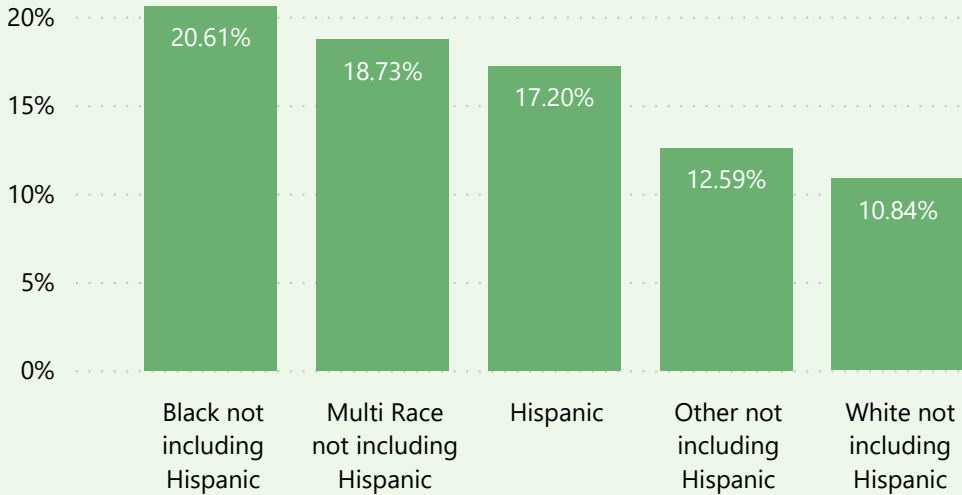
Average Child Asthma

Pennsylvania has the highest data collection of child asthma rate at 90.48 % of sites having data

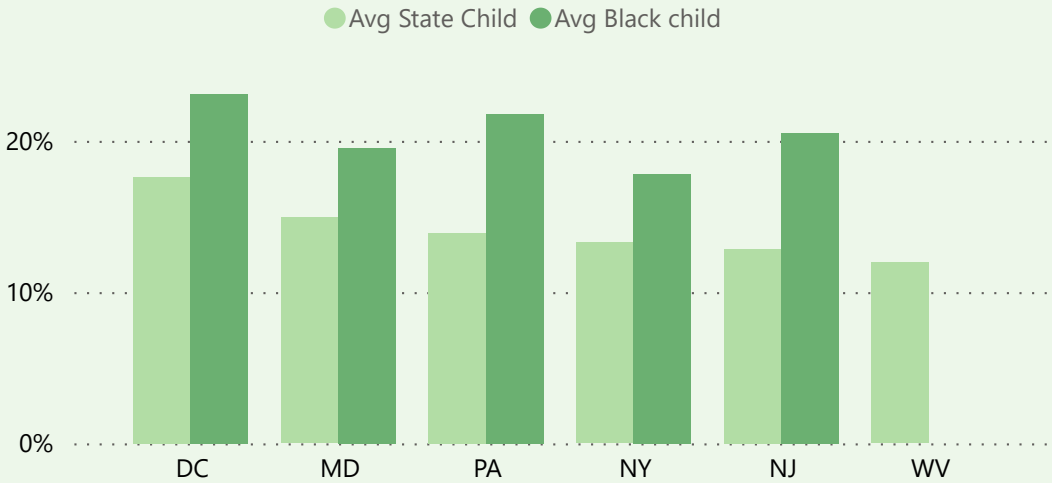
Average Child Asthma and Average Adult Asthma by State



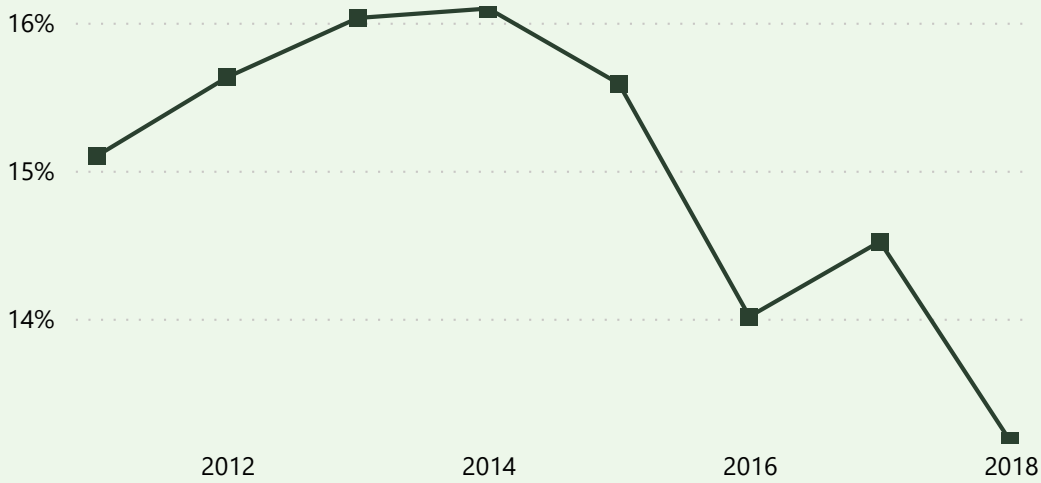
Average Child Asthma by Race Ethnicity



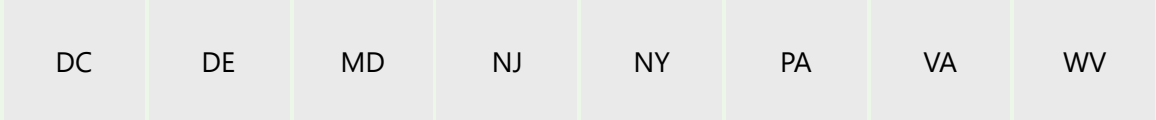
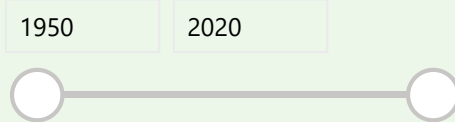
Avg State Child and Avg Black child by State Code



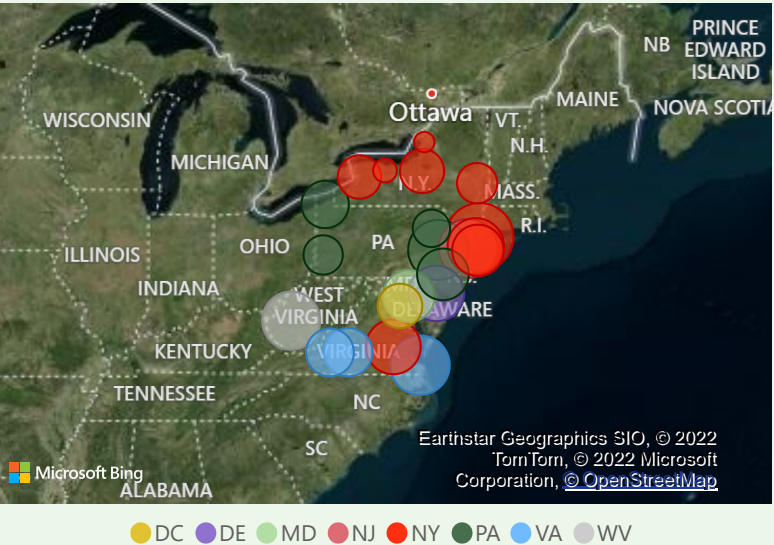
Average Child Asthma by Year



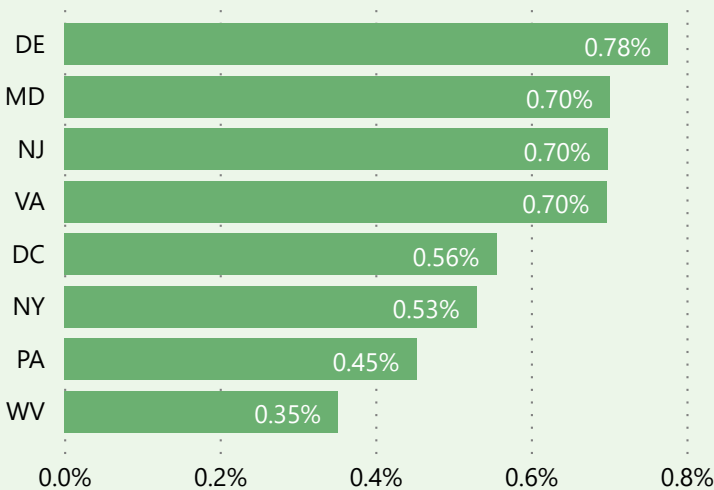
Rainfall Recordings



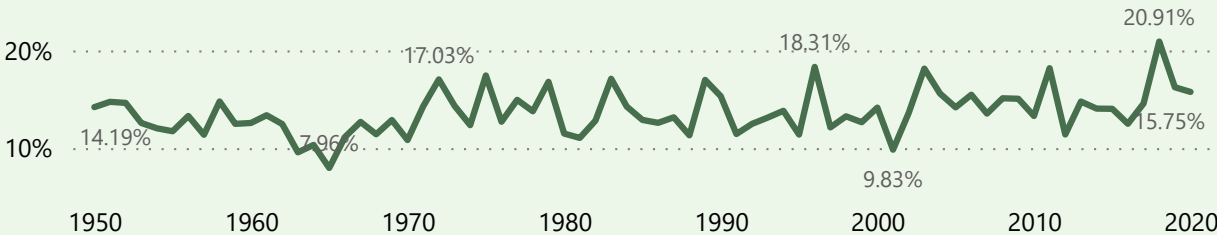
Percentage of Rainy Days by Location



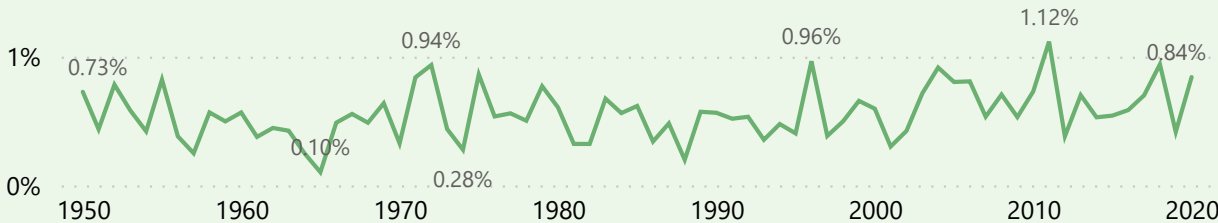
Percentage of Rainy Days (>= 2 inches) by State



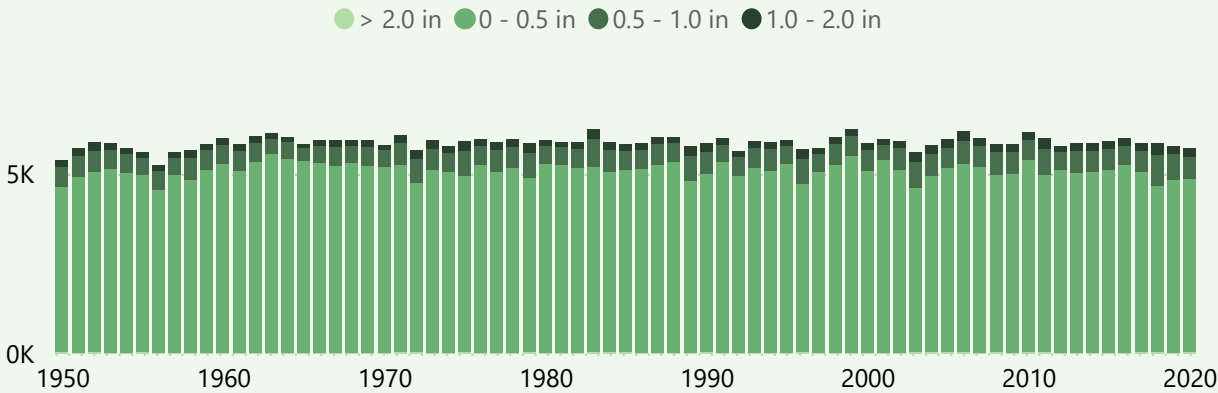
Percentage of Rainy Days by Year



Percentage of Rainy Days (>=2 inches) by Year



Total Days Measured by Year and Rainfall Category (inches)



57K

Num of Rain Days

13.63%

Pct of Rainy Days

0.56%

Pct of Rainy Days > 2 in

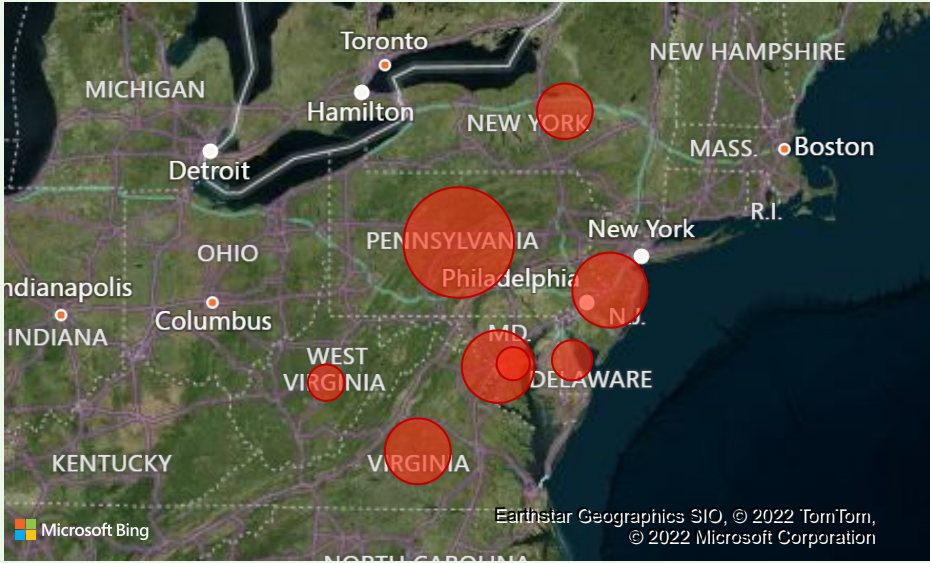
At 20.91%, 2018 had the highest Pct of Rainy Days and was 162.55% higher than 1965, which had the lowest Pct of Rainy Days at 7.96%.

Across all 71 Year, Pct of Rainy Days ranged from 7.96% to 20.91%.

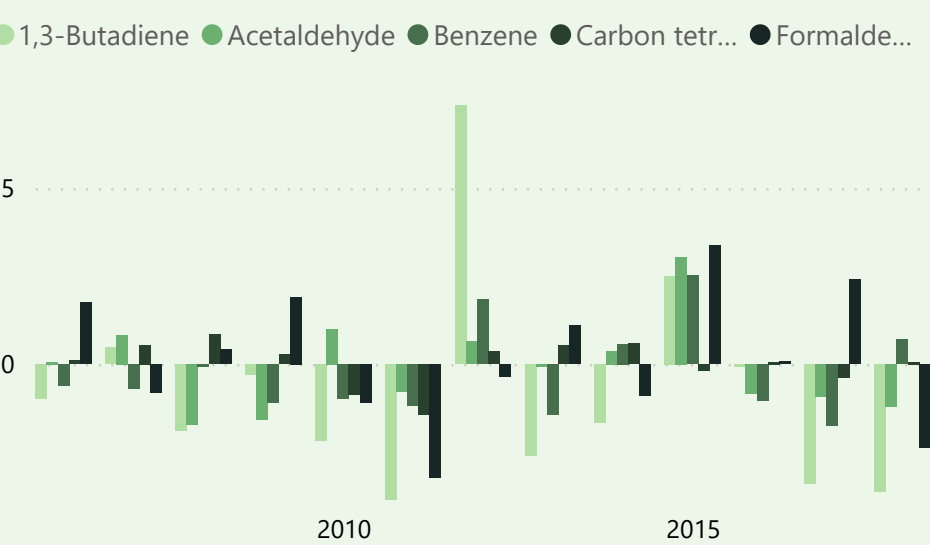
0 - 0.5 in had the highest total Total Days Measured at 359711, followed by 0.5 - 1.0 in, 1.0 - 2.0 in, and > 2.0 in.

- DC
- DE
- MD
- NJ
- NY
- PA
- VA
- WV

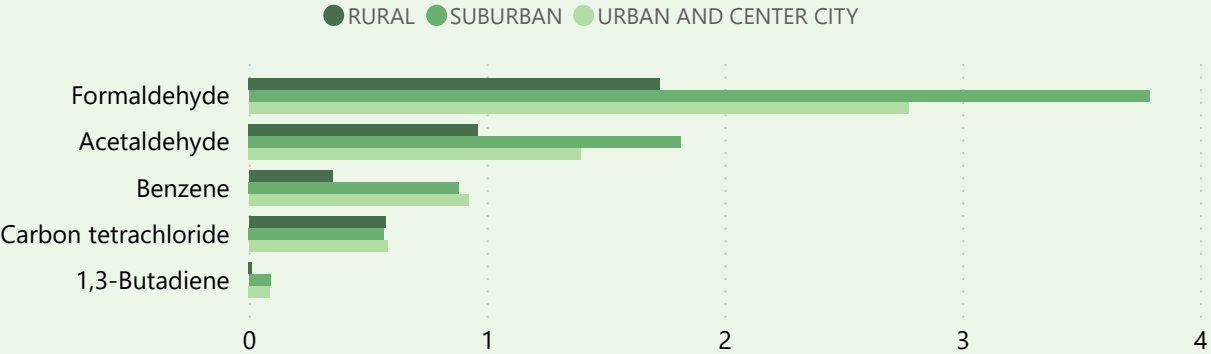
Concentration (Final Measure) by State



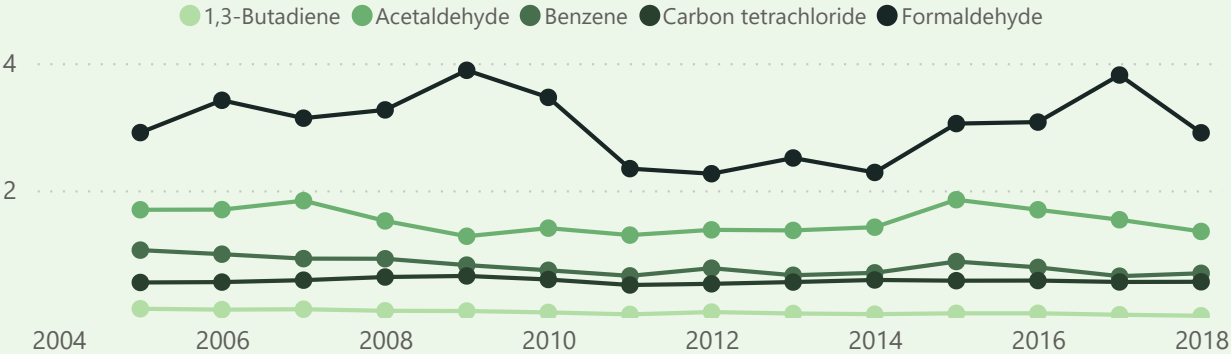
Percentage of Annual Air Toxic Change



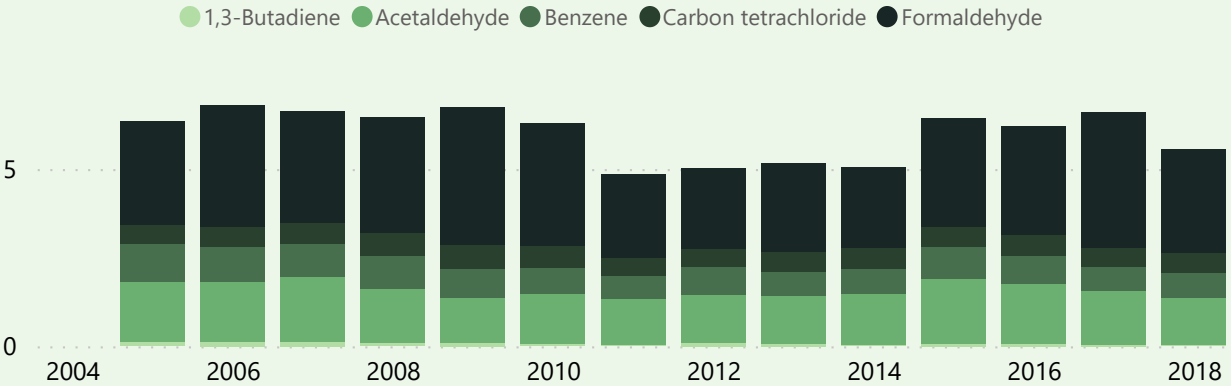
Average Toxics Concentration by Location Types



Average Toxic Concentration by Year



Concentration (Final Measure) by Year



1.09

Avg Toxic Concentration

-14.3%



Card Text (Location Type)

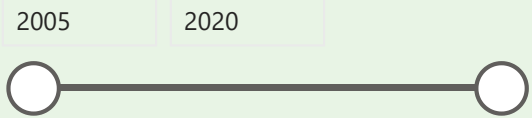
74

Number of Locations
with Toxin

5

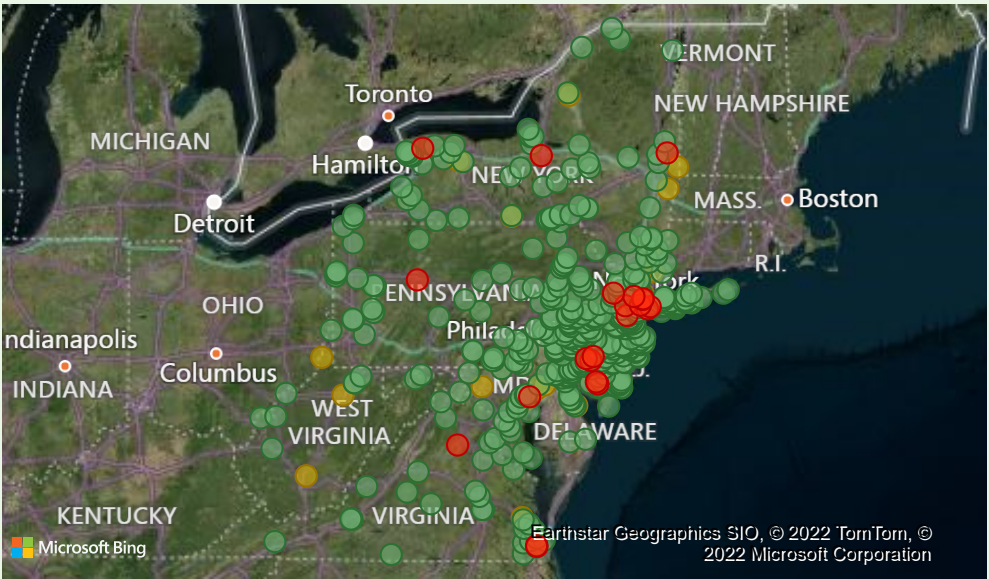
Number of Toxins
Present

HUMAN EXPOSURE



HE Status by Latitude và Longitude

Insufficient Data No Concern for Exposure Potential for Exposure



22

Potential

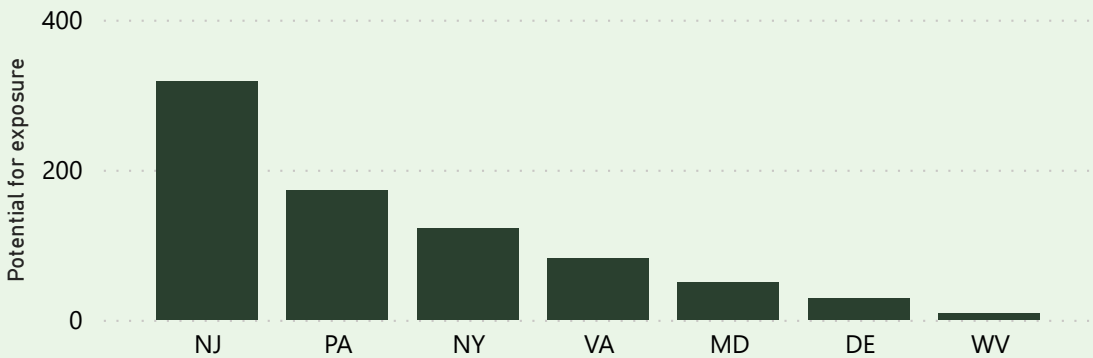
432

No concern

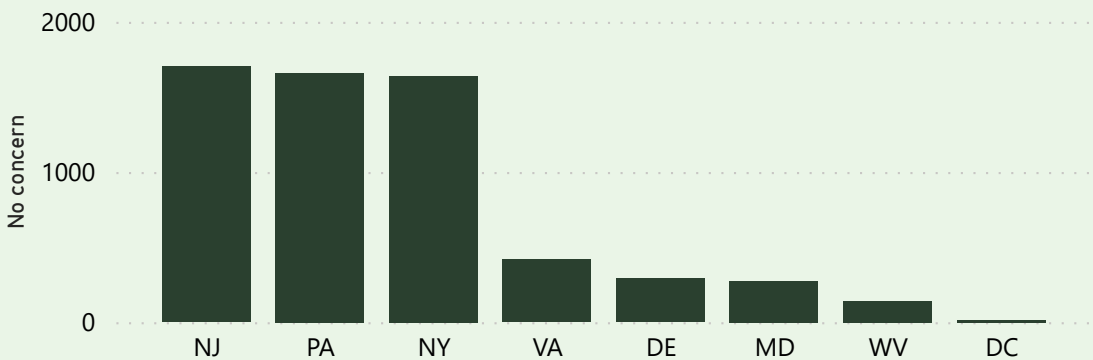
36

Insufficient Data

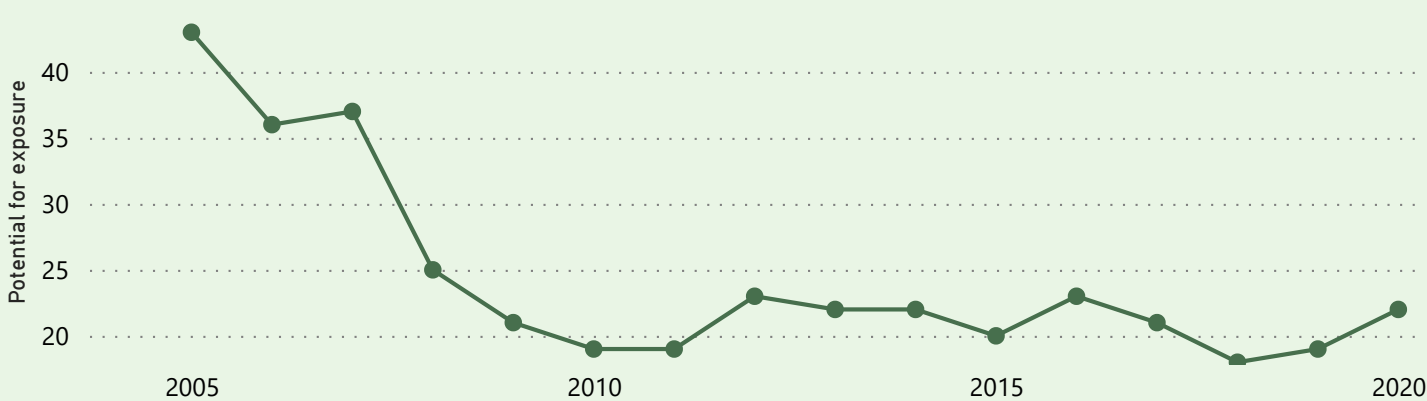
Potential for exposure by State



No concern for exposure by State



Potential for exposure by Year



HE Status	HE Count 2005	HE Count 2020	HE Pct Change
Potential for Exposure	43	22	-0.49
No Concern for Exposure	360	432	0.20
Insufficient Data	48	36	-0.25
Total	451	490	0.09