

## ENVIRONMENTAL DATA ANALYSIS ACROSS UNITED STATES

Types of Air Toxin

5







Number of Airports

22

Number of Contaminations

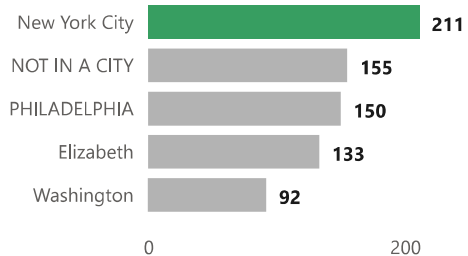
500

### Key Headlines and Recommendations:

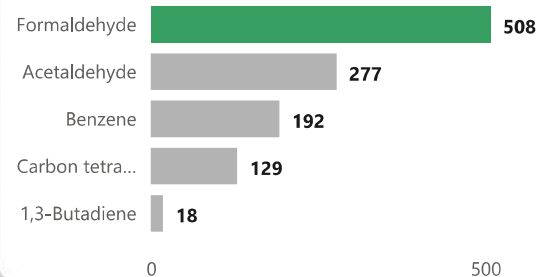
-  **Formaldehyde** has the highest concentration among all the air toxic chemicals.  
**Recommendation** for the policy makers would be to decrease the production sources of particularly this chemical or at least keep an eye on it.
-  **Suburban** location type has the highest concentration among the location types over the years.
-  **Westchester Country Airport** has the most no. of frequency greater than 2-inch rainfall over the years.  
**Recommendation** for the policy makers would be to provide better drainage system on the airport for proper management.
-  Around **85%** of human exposure contaminants according to the dataset is not harmful or has **no concern** for human exposure. Whereas the remaining **15%** has **potential** for human exposure.
-  Across the various states in United States, **New York** has the maximum amount of Asthma values overall recorded.
-  **New Jersey** has maximum count of potential for exposure contaminants overall recorded. **Recommendation** for the policy makers to find the areas within the location of most exposure contaminants' production sources and take required actions.

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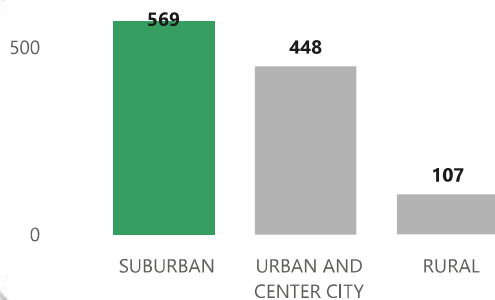
TOP 5 Cities Vs Concentration



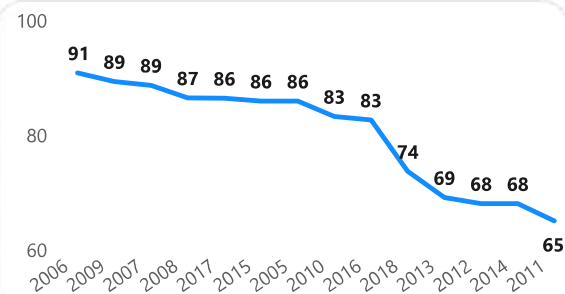
TOP 5 Air Toxin Vs Concentration



Location Types Vs Concentration



Year Vs Concentration

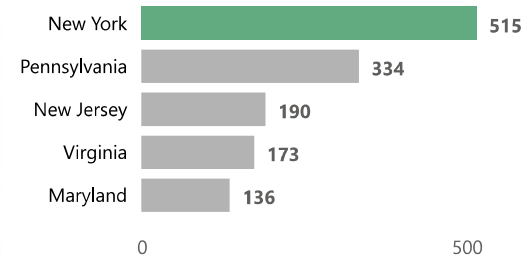


## Adult Asthma Analysis

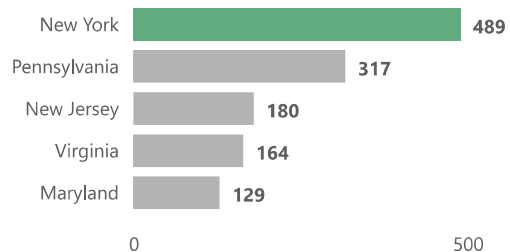
**Asthma** in adults has been recorded over the 2018 year only.

Average value of Asthma in 2018 in different Census Tracts recorded is **0.1**.

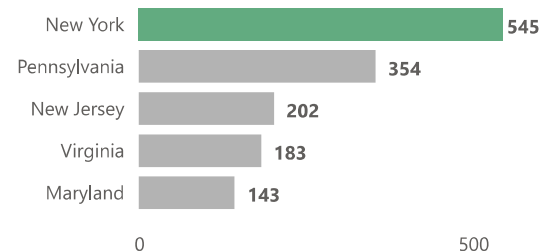
## TOP 5 States Vs Value



## TOP 5 States Vs Low-Confidence Interval Analysis

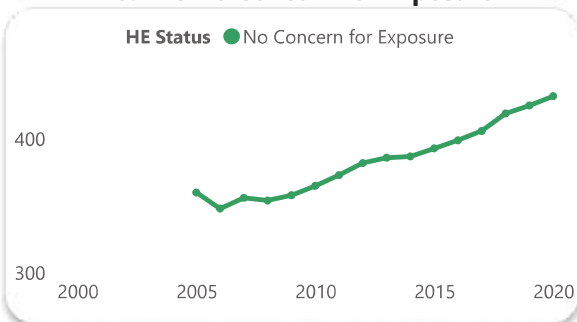


## TOP 5 States Vs High-Confidence Interval Analysis



**Confidence Interval:** It basically displays the probability that a parameter will fall between a pair of values around the mean and measures the degree of uncertainty or certainty in a sampling method.

## Year Vs No Concern for Exposure



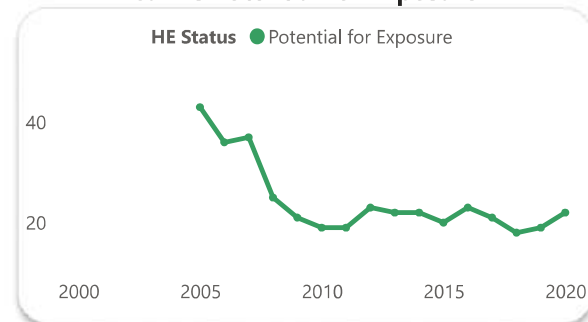
**2020** has the highest number count of no concern exposure contaminants over the period of time

## Human Exposure Contaminants Details

Around **448** human exposure contaminants over the dataset have no concern for exposure.

Whereas **79** human exposure contaminants over the dataset have potential concern for exposure.

## Year Vs Potential for Exposure



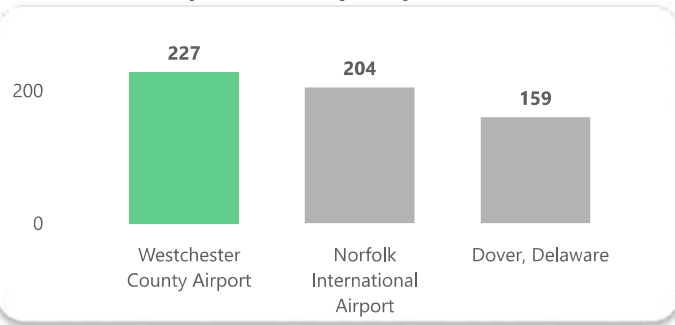
**2005** has the highest count of potential exposure contaminants over the period of time

## Human Exposure Contaminants Across State

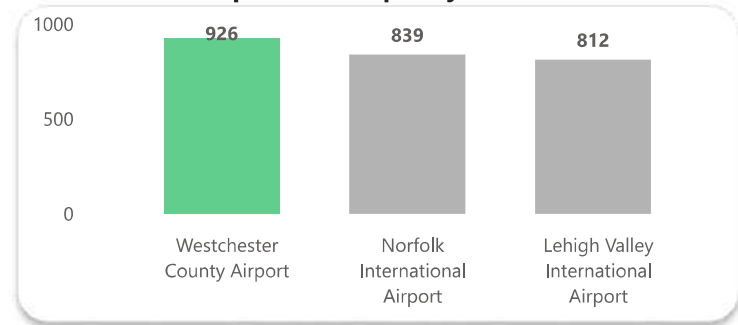
**New Jersey** has maximum count of potential for exposure contaminants across all the states of United States recorded according to the dataset.

## ENVIRONMENTAL DATA ANALYSIS ACROSS UNITED STATES

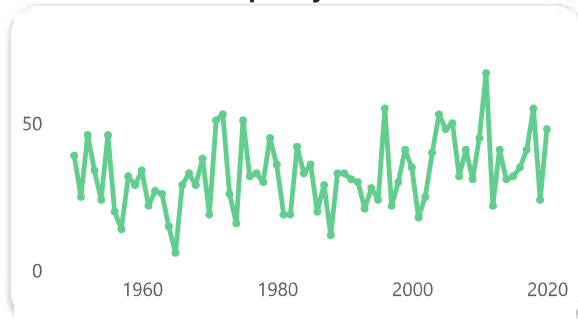
TOP 3 Airports Vs Frequency > 2inch rainfall



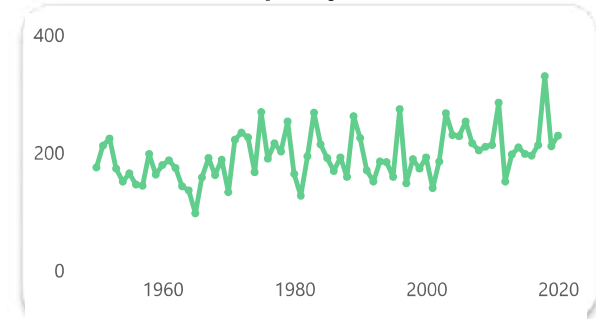
TOP 3 Airports Vs Frequency > 1inch rainfall



Year Vs Total Frequency > 2inch rainfall



Year Vs Total Frequency > 1inch rainfall



**Note:** Frequency considered only above 1 inch rainfall in the analysis.