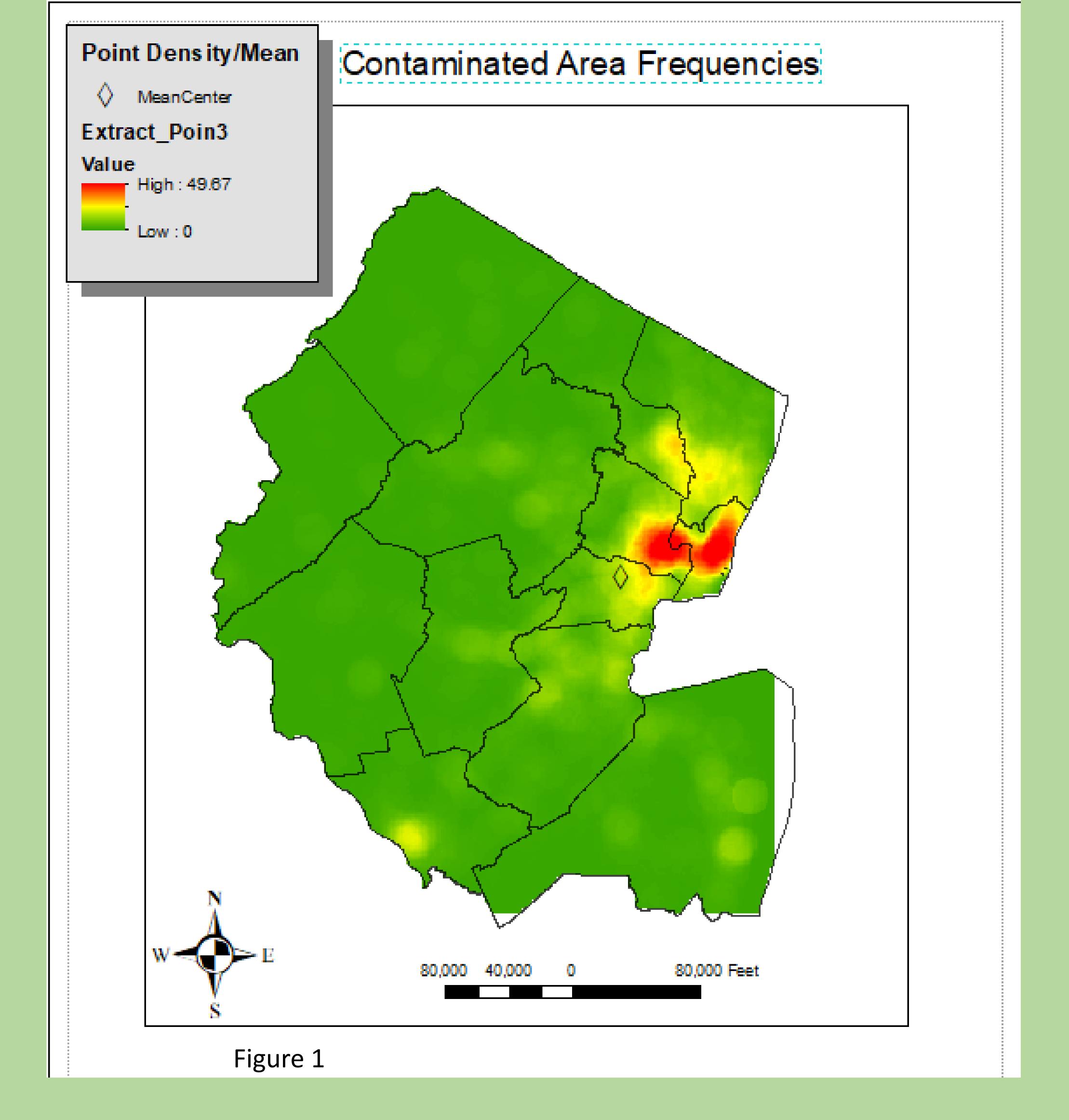
# Northern Jersey Contamination Sites

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## Introduction

- New Jersey is one of the most populated, urbanized areas in the United States.
- With pollution becoming a bigger concern for citizens after events such as East Palestine, it's important to understand where it's already present.
- While New Jersey has had no high-profile environmental emergencies recently, land contamination can exacerbate a future issue, given the right conditions.
- Heat maps were used to understand where the most contributors to groundwater contamination are.





- Areas that contribute to ground contamination typically involve the handing of several environmentally-unfriendly materials.
- Gas stations and car-service depots are some of the most common offenders, and areas such as schools and industrial areas are also prominent.
- This map puts on display which counties produce the most pollution.
- The MeanCenter represents the point on the table where the average point can be located.

# Findings

- 1. Hudson and Essex County contribute the most pollution in Northern New Jersey
- 2. The less-developed northwest contributes less overall pollution
- 3. The MeanCenter indicates that the eastern area that borders New York produces the most pollution.

#### Process

- Heatmapping
- Extract by Mask
- Mean Center
- Select by location

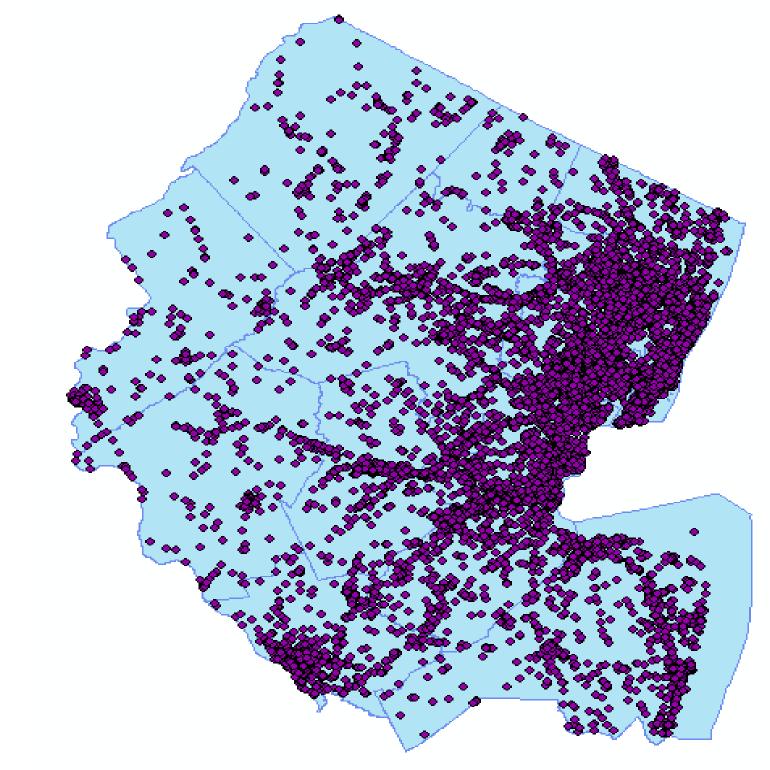


Figure 2. Every pollution-producing area in Northern New Jersey

### Conclusions

- Pollution is an issue that must be addressed sooner rather than later.
- The automotive industry is one of the largest contributors.
- Essex & Hudson have the most contaminated sites.