Locating Potential Coronavirus Vaccination Sites

At Retail Pharmacies Near Public Transit Stations

in Morris County, New Jersey

Locating coronavirus vaccination sites is urgent and important to the Morris County Dept. of Health

- Limited vaccine availability has narrowed the field of applicants to administer the vaccine.
- Only 3 major retail pharmacy chains currently offer the vaccine.
- Eligible persons who rely on public transit may not have access to a vaccination site.
- ADA-compliant paratransit service is limited to ¾ mi from a station stop.
- Targeting rail stations and all the pharmacies within range to become a site.

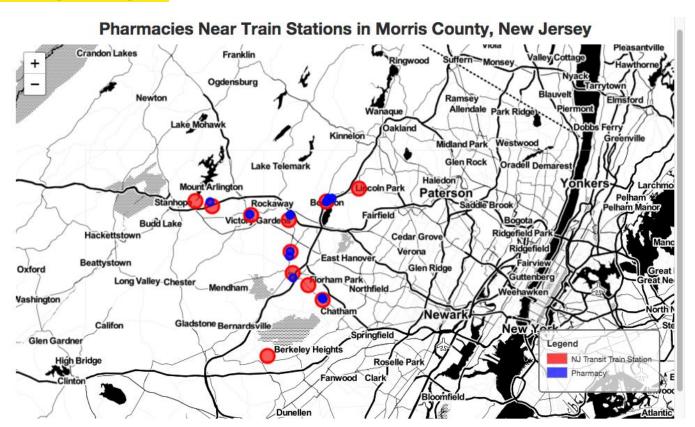
Data acquisition and cleaning

- 1. NJ Transit train stations
 - a. Data source: NJ Transit API stops.txt
- 2. Wikipedia List of Railway Stations in Morris County, NJ
 - a. Data source: Wikipedia
- 3. Foursquare API
 - a. Data source: <u>Developer Tools portal for Foursquare API</u>

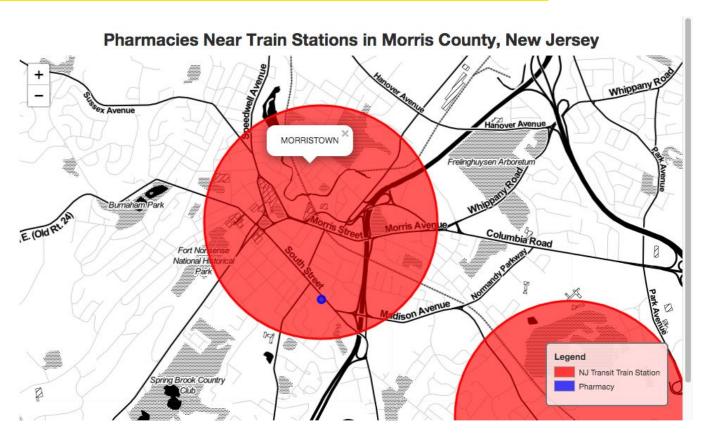
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- Went from 3 data sets with 256 results to 2 datasets with 11 results each.
- Reduced features to only location name, geographic coordinates.

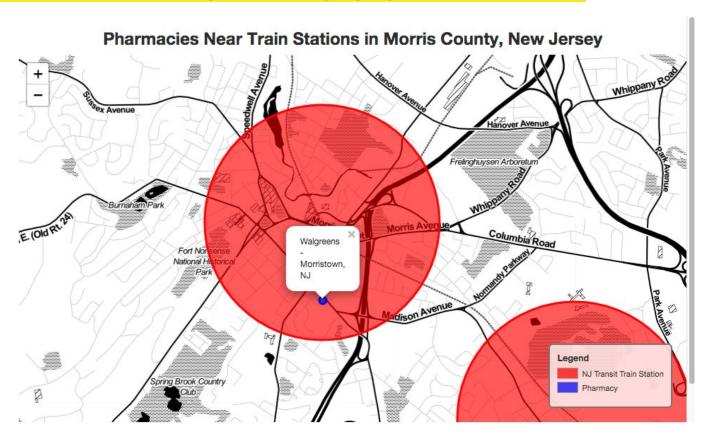
Result - Map Output



Result - Station Output with popup marker detail



Result - Pharmacy Output with popup marker detail



Conclusion

- Only 7 stations in Morris County have ADA-access to a pharmacy
- There are 3 stations (36%) with no ADA-compliant access to pharmacies
- Insufficient access to coronavirus vaccine sites for those relying on ADA-compliant public train options at each of the county's train stations.
- Pharmacy vacant stations **are within 1 station stop of access** to a pharmacy
- Expand access to pharmacies by waiving train fare for vaccinations
- Expand access by waiving the ¾mi distance **limit for ADA Access Link**
- Expand access by opening vaccination sites in **non-pharmacy locations**