

Emergency Personnel Locations

For each type of emergency personnel (hospitals, police departments, and fire stations) in the 53 counties of the Central Appalachian Region of Kentucky, the following information was collected:

- Name
- Street address
- City
- State
- Zip code
- Latitude (decimal degrees)
- Longitude (decimal degrees)

To get all the hospitals' information of Kentucky, we used the database maintained by the Southeast Center for Agricultural Health and Injury Prevention (<https://www.uky.edu/scahip/>) at the College of Public Health, University of Kentucky. We have used Python Geopy package to fetch the lat/long of each hospital. Geopy has three map services: Nominatim, GoogleV3 and Bing. We have used GoogleV3 service to get the complete address (lat/long, postal code, county) of each hospital from their name and address.

We have collected the Police departments' information by using Google Map Place Search API (<https://developers.google.com/places/web-service/search>). We have generated the points (lat/long) inside the area of Kentucky state which are 5 miles away from each other. After that, Google Map Place Search API has been called for each location(lat/long). In the API request, we have selected the place type as "Police" and radius as 5 miles. So that it has returned the complete addresses of all the police stations belong within the range of 5 miles radius of the query point. After collecting the complete list, it has been refined to remove the duplicate entries. The program has been developed in python.

For fire departments, we used the US Fire administration (<https://apps.usfa.fema.gov/registry/>) website, that contains a list with the names and addresses of fire departments by state. To get the lat/long for each fire department, again we have used Python Geopy package.

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