## **GIS Quick Tips**

Presented by CDC's Division of Heart Disease and Stroke Prevention GIS Exchange For more information visit the GIS Exchange website:

https://www.cdc.gov/dhdsp/maps/gisx/index.html

## **Avoiding Personally Identifiable Information on a Map**

To preserve individual confidentiality, use Geo-masking techniques such as aggregating points to the census tract or county level, or converting points to a surface density map.

## **Aggregation Methods**

- Aggregate (Spatial Analyst) for raster data
- Aggregate Points (Cartography)
- Aggregate Polygons (Cartography)
- Spatial Join (Joins and Relates)
- Collect Events (Spatial Statistics)

## **Geomasking Methods**

Jittering

For more information on personally identifiable information and spatial data, read the following research article, viewable on Pubmed: Ensuring Confidentiality of Geocoded Health Data: Assessing Geographic Masking Strategies for Individual-Level Data

Author: Paul A. Zandbergen

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4590956/

