

Methods – Calculating quintiles using AGS CrimeRisk data.

Quintiles are based on total crime rate (CRMCTOTC). When tracts had the same total crime rate value, we did a second sort by personal crime rate (CRMCPERC).

To create population-weighted quintiles:

- Sort by CRMCTOTC (low to high) and then CRMCPERC (low to high)
- Added a column for the cumulative population. Calculate it as:
 - $\text{CumPop} = \text{this tract's population (POPCY)} + \text{the previous tract's CumPop}$
- Added another column for the ratio of the CumPop to one fifth of the total pop
- Added another column for the crime quintile category:
 - "1:Low" for tracts where the ratio is ≤ 1.00
 - "2:MedLow" for tracts where the ratio is > 1 and ≤ 2.0
 - "3:Medium" for tracts where the ratio is > 2 and ≤ 3.0
 - "4:MedHigh" for tracts where the ratio is > 3 and ≤ 4.0
 - "5:High" for tracts where the ratio is > 4 (and ≤ 5.0)