**EJ & Service Areas**

Last updated: 8/7/23

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| Legend | Wes |
| AR |
| complete |

**Section 1: Steps to Completion**

1. Create folder
2. Github repo (6/16/23)
3. download data
   * County shapefiles
   * Zipcodes <- UCMR data
   * EPIC data
   * SYR 4 & SYR 3 & SYR 2
   * UCMR3 PFAS Data & PFAS Analytic Tools
   * SDWIS or Maura Allaire's data
4. Running EJSCREENbatch over each service area types x2
   * Ran over all EPIC boundaries
   * Run for counties and zipcodes
5. Generate drinking water indicators & then merge to 4.
   * PFAS (UCMR and PFAS Analytic Tools)
   * Total Coliforms (SYR 3 & 4)
   * TTHM and HAA5 (SYR 3 & 4)
   * Health-based violations
   * Lead action level exceedances
6. Create aggregate drinking water statistics for each demographic group
   * Non-hispanic white, Black, hispanic, Asian, PI, Below 2X PL, people of color
7. Create relative risk ratios for each indicator.
8. Output the tables
9. Brainstorm figures
10. Brainstorm journal outlets and write the paper.
11. NEW: Compare how “disadvantaged water system” is defined differently depending on the service boundary being used.

**Section 2: Significant Updates from Last Meeting**

Significant updates (8/7/23):

* Almost all data is now present. Water indicators and boundaries are all there. Need to join PWSIDs to counties.
* Will Wheeler’s idea on how to update the paper.
* Discuss different possible outcomes.
  + Adjust samples to be %above threshold?
  + Two EJSCREEN indicators being scoped out (action level exceedences of lead and health based violations over the past 5 years + duration out of compliance).

**Section 3: Questions to Answer**

Questions

* National vs. state vs. region?
  + Subset that is the perfect boundaries.
  + Separately summarizing EPIC's tier 1, tier 2, tier 3
* What is the disparity index?
  + Relative risk: simplify and keep to one number for POC and NH-White
  + Appendix tables for additional comparisons across groups
* What are the most important types of outcomes?
  + Health based violations, etc.
* Should we adjust the samples so they’re % above a threshold as in Keiser and Shapiro?
* How does population density, region, PDW density, etc., impact accuracy and differences we observe across water system boundary types?

**Section 4: Possible Output Tables**

