Environmental Public Health Tracking

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What is EPHT?

- The ongoing collection, integration, and analysis of data about environmental hazards, exposure to environmental hazards, and health effects potentially related to those hazards
- CDC-funded cooperative agreement
- 23 states and 1 city
Goals of EPHT

- Development of nationally consistent data and measures
- Development of national and state portals to display NCDMs
What data is available?

Health Outcome Data
- Asthma
- Heart Attacks
- Birth Defects
- Cancer
- Carbon Monoxide Poisoning
- Reproductive/Birth outcomes
- Childhood lead poisoning/
  Blood lead levels

Environmental Data
- Air quality
- Water quality
- Childhood lead poisoning/
  housing age
Air Data on the Tracking Network

- Ozone and PM2.5
- All data prepared by EPA and CDC
- Two major activities:
  - Ozone and PM2.5 data obtained from AQS
    - Used to calculate county-based measures
  - Hierarchical Bayesian predictions based on AQS sampling data and CMAQ modeling
    - Not available on the state portal
    - 36km and 12km grid data (only eastern US)
Air Quality Indicators

- PM2.5 days above regulatory standard
  - Number of person-days with PM2.5 over NAAQS
  - Percent of days with PM2.5 over NAAQS
- Annual PM2.5 level
  - Annual average concentration of PM2.5
  - % of population in counties exceeding NAAQS (Monitor only)
- Ozone days above regulatory standard
  - Number of days with max 8-hour avg ozone over the NAAQS
  - Number of person-days with max 8-hr ozone over the NAAQS
Future projects

- Developing linked indicators
  - Air quality and birth outcomes
  - Air quality and MI
Links

- National EPHT Portal
  - http://ephtracking.cdc.gov

- Connecticut EPHT Portal