Utah Environmental Public Health Tracking Program Rapid Inquiry Facility (RIF)

Environmental Epidemiology Program Utah Department of Health

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www.health.utah.gov/els/epidemiology/envepi/Default.htm

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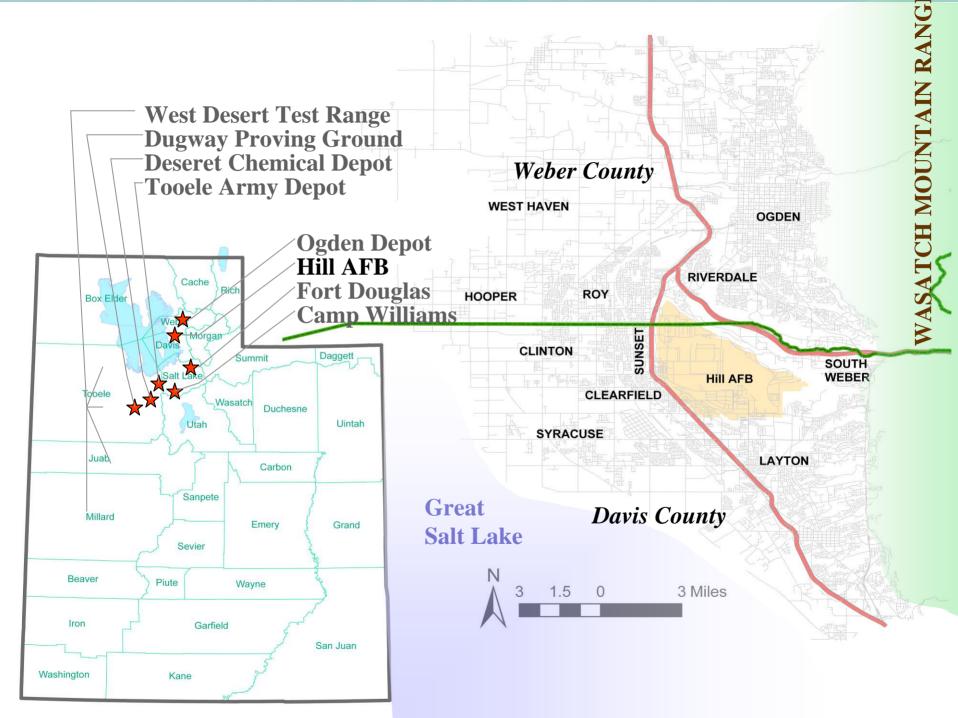


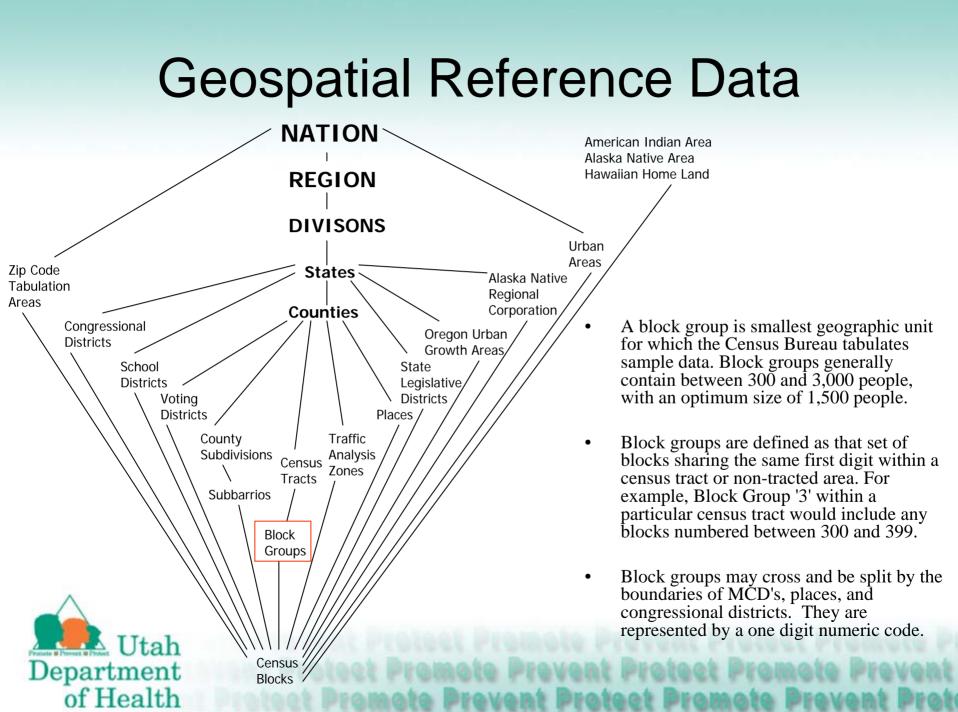
Protect Promote Prevent Protect A Study of the Association Between Cancer Rates and TCE Ground Water Contamination in Communities Surrounding Hill Air Force Base, Utah from 1973 - 2001





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Geospatial Reference Data

- U.S. 2000 TIGRE Census Block Group shape file for the State of Utah
 - Feature Type: Polygons
 - Projection: NAD 1983 UTM Zone 12N
 - Reference Key: Standard Federal Idenfier
 - State FIPS code (ss)
 - County FIPS code (ccc)
 - Census tract enumeration code (tttt.tt)
 - Census block group enumeration code (b)





Population Data

- Data from commercial source
- Census Years: 1970, 1980, 1990, 2000
- Structured into Sex x 5-year age groups (M 0-4, F 0-4, M 5-9, F 5-9 ... M 85-older, F 85-older)
- Reapportioned to 2000 Census Block Groups
- Indexed by the STFID code
- Intercensal estimates





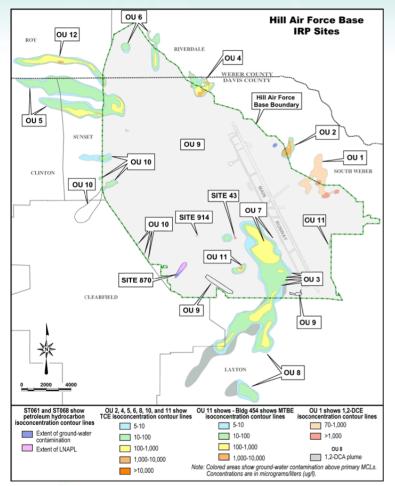
Socio-Economic Status Indicator

- Data from same commercial source
- Data only available for 1990 and 2000 census block groups
- Indexed by the STFID code
- Indicator Used: Median Household Income
- Alternatives Considered
 - House Value / Type / Age
 - Household Size / House Room Count
 - Education





Exposure Data



- Graphic plume boundaries
 5-10 ug/l TCE
 - 2001-2002 sampling period
- Limited pathway data
 - Indoor air intrusion
 - Plant sampling



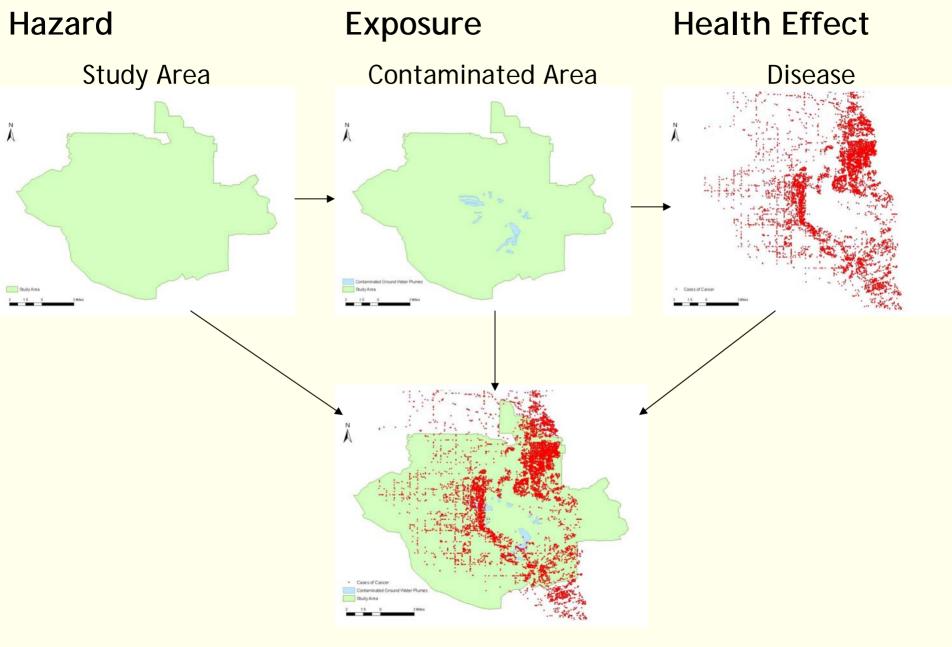


Protect Promote Prevent Protect

Health Effects Data

- Utah Cancer Registry
 - Case-centric registry
 - Electronic Data: 1973-2001
- Geocoded
- Assigned to a 2000 Census Block Group area
- Count by Type, Year, Sex and Age Group for each 2000 Census Block Group





Linking databases can be a first step in identifying environmental hazards that may be related to human health effects