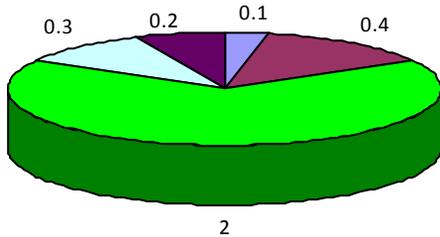


Inhalation Exposure to Hazardous Air Pollutants (HAPs)

Hazard Index (HI) for Non-Cancer Health Effects on the Respiratory System by Pollutant Source



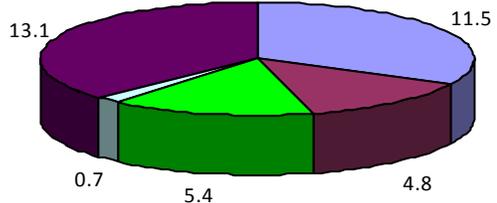
Total HI 3.0

- Major
- Area and Other
- Onroad Mobile
- Nonroad Mobile
- Estimated Background

HAPs significantly contributing to non-cancer risk

- Acrolein
- Acetaldehyde
- Bis\_2\_ethylhexyl\_phthalate
- Formaldehyde
- Hydrochloric\_acid

Additional Cancer Risk per Million by Pollutant Source



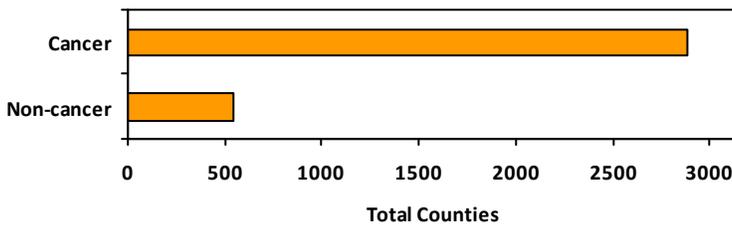
Total Additional Cancer Risk 35.5 per million population

- Major
- Area and Other
- Onroad Mobile
- Nonroad Mobile
- Estimated Background

HAPs significantly contributing to cancer risk

- Benzene
- Benzidine
- Carbon\_tetrachloride
- Chromium\_VI
- Bis\_2\_ethylhexyl\_phthalate

Cancer and Non-Cancer Risk Ranking



Randolph County

Out of 3140 counties in the US, there are 2886 counties that have lower cancer risk and 546 counties that have lower non-cancer risk.

**Definitions:**

- Major Source:** Facilities that produce air pollution in large amounts. Examples are chemical plants, power plants, and pulp and paper mills.
- Area and Other Source:** Facilities that produce air pollution in amounts less than a major source and are typically numerous in an area. Examples are Autobody shops, gasoline filling stations and some electroplating operations.
- Onroad Source:** Mobile sources such as cars, motorcycles and trucks.
- Nonroad Source:** Mobile sources such as airplanes, trains, boats and any other off-road vehicles.
- Background Source:** Air pollution attributable to long-range transport, unidentified emission sources, and natural emission sources (e.g. swamps, volcanoes, rock formations).
- Respiratory system:** The airways, the lungs, and the muscles that are used for breathing.
- Cancer Risk:** The additional likelihood of developing malignancy, due to inhalation exposure to air pollutants, beyond the combined results of lifestyle and family history of cancer.
- Hazard Index:** A value less than 1.0 means no significant risk of adverse health effects.