

2020 AirToxScreen Update

April 6, 2023

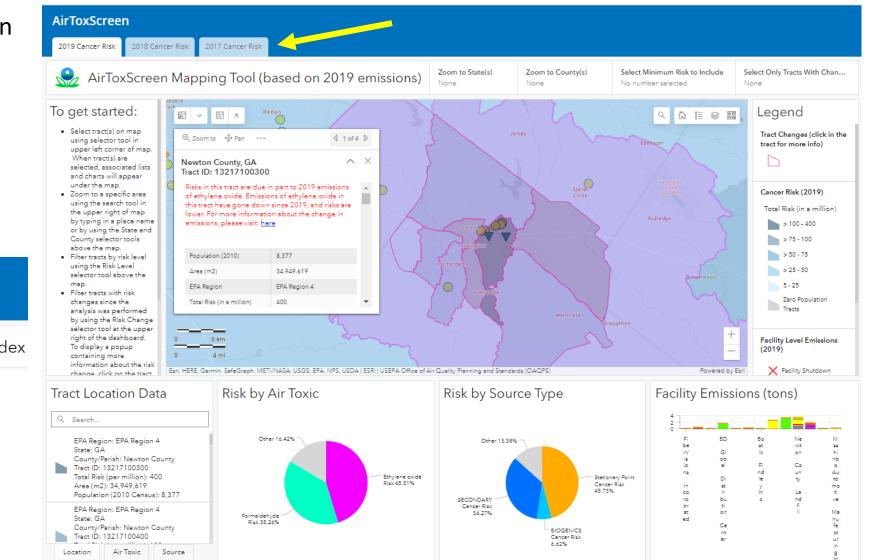
Background

- AirToxScreen provides screening-level estimates of the risk of cancer and other serious health effects from inhalation of more than 100 air toxics.
 - Uses National Emissions Inventory and the Multi-Pollutant Platform
- Three years of AirToxScreen data (2017, 2018, and 2019) were released in calendar year 2022
 - Consistent with previous national-scale assessments for air toxics, results were provided at the census tract
- The 2020 AirToxScreen assessment will transition results from the census tract scale to the census block scale for public release

AirToxScreen Mapping Tool Update

- Three years of AirToxScreen data (2017, 2018, & 2019) now available in the tool.
- Coming Soon: tab for the 2019 Hazard Indices dashboard





2020 AirToxScreen

- As part of the transition to census block-level results, we recently developed a new receptor approach for the dispersion modeling component of AirToxScreen.
 - Presentation on the new approach will be given at the upcoming National Air Toxics Conference.
- To test the new approach, we have generated draft preliminary risk results for stationary point sources based on dispersion modeling alone.
- We are sharing those results with our state, local, and tribal (SLT) agency partners as a preliminary *draft* risk preview.
 - Purpose of this preview is to serve as an apples-to-apples comparison of the previous receptor approach (from summer 2022 point source review) and the new receptor approach. Allow SLTs additional time to preview areas of high risk at the block-level and prepare for the final 2020 AirToxScreen release.
 - Consists of the top ~500 facilities by risk
 - The emissions and meteorology are consistent with what was released for the SLT review in Summer 2022.
 - This data *is not* an indication of final risk or emissions for the 2020 AirToxScreen.
 - This data *is not* the final emissions file for any EPA modeling.
 - Each state has at least one facility in the preview.
 - This is not meant to be a review, however, if an error is noticed please let us know ASAP. Final modeling begins mid-April.
- Preview will be shared with SLTs today
 - Will include a previous recording of the new receptor approach presentation by James Thurman.