

Appendix I – CATA Data Portal

The California Air Toxics Assessment (CATA) data portal is designed to be a public-facing platform, committed to disseminating the invaluable information provided by CATA. It is publicly available at <https://california-air-toxics-assessment-californiaarb.hub.arcgis.com>. The fundamental design of this portal is rooted in three key principles: rich and reliable content, effective communication, and promotion of open data.

(a)



(b)



Figure I-1. The CATA data portal's landing page, featuring (a) a prominent banner and (b) a summary of the project's progress.

Content

Users of the CATA data portal are greeted by a rich array of engaging and informative content (Figure I-1). The platform highlights key findings from our assessments, supported by an intuitive mapping toolkit, allowing users to navigate the data at a pace and depth tailored to their needs.

Currently, the portal hosts the 2017 CATA assessment pages. Upon accessing these pages, users encounter an informative message, which includes a link to a frequently asked questions (FAQ) section and a disclaimer (Figure I-2). This disclaimer is intended to inform users about the best practices for utilizing our data, as well as the limitations and uncertainties associated with the CATA dataset. For example, users are advised to view the data in relative terms, such as risk percentiles, rather than in absolute values. After reading the message, users can close it.



Figure I-2. The pop-up window with important information on CATA, including contact information, links to the disclaimer, FAQ and the CATA technical report.

The website offers background information specific to the 2017 CATA assessment and provides links to mapping tools for both statewide analysis and six major air basins. The

Methodology page reveals a highlighted summary of our methodology (Figure I-3a). On the Results page, users can explore our key findings, with detailed discussions available at both the statewide level and for individual air basins.

Access to a user-friendly, dashboard-style mapping tool is made available through the Interactive Mapping Tool Button at the top of the page. Its layout features a map on the right, complemented by numerous selection options at the top. Users can determine the spatial scale of their analysis using predefined tabs, with choices from an entire air basin to a specific county or a designated AB 617 community. Further personalization is possible by selecting areas based on factors such as cancer risk scores, or by simply entering a specific address (see Figure I-3b). Additionally, users can define their own community boundaries with our area selection tools.

The dynamic left panels provide a statistical analysis of 30-year cancer risk based on user-selected areas. Investigations into population-weighted total cancer risk, air toxic category contributions to total cancer risk, and cancer risk per emission source for various air pollutants are possible.

(a)



California Air Toxics Assessment (CATA) for 2017

[Home](#)[Methodology](#)[Results](#)

Methodology

Three key elements are instrumental in shaping the results of ambient concentration levels of toxic air contaminants (TACs). These critical components include:

- the emission data, which details the volume of toxins released into the atmosphere,
- the meteorological data, which offers crucial insights into weather patterns that may influence the dispersion of these toxins,
- the specific air quality models employed for sophisticated simulations

On this page, we'll present key highlights from our report. For more comprehensive and detailed information, please refer to our full report.

CARB Emission Inventory



On-Road Mobile Sources:
Any air pollution emitted by motor vehicles on roadways including passenger cars, trucks, and motorcycles.

The Comprehensive Air Toxic Assessment (CATA) focuses on twelve key air toxics, which collectively constitute over 95% of the total health risk in this state based on their emissions and associated toxicity values.

These include:

1. Diesel Particulate Matter (DPM)
2. Five toxic heavy metals:
 - a. Cadmium
 - b. Hexavalent Chromium

(b)

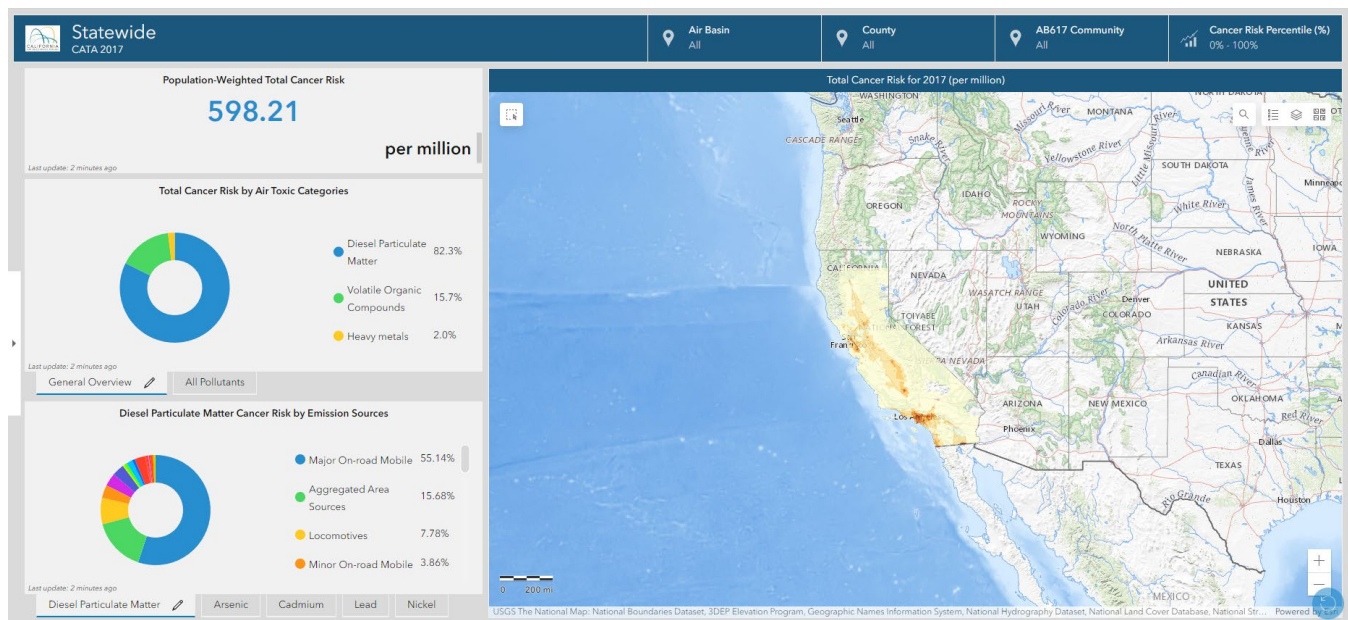
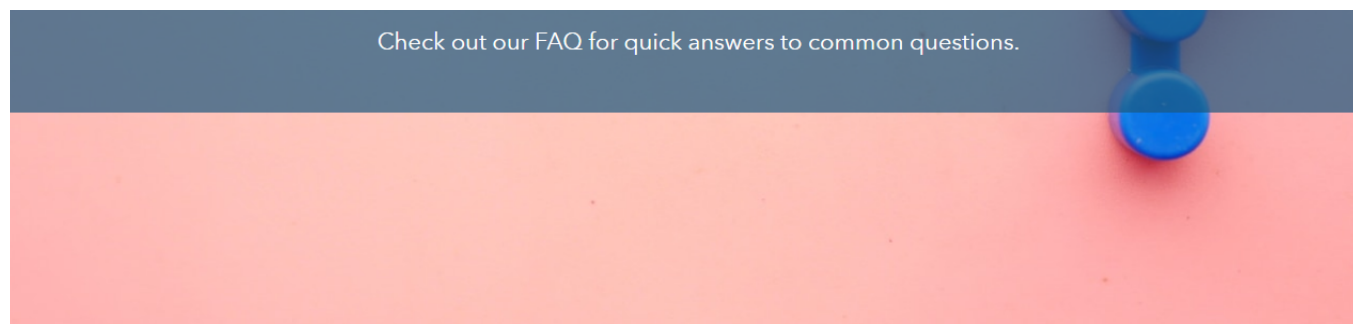


Figure I-3: The content pages of the CATA data portal, featuring (a) a short summary and key findings from the CATA assessment, and (b) a user-friendly, dashboard-style interactive mapping tool.

Communication

In addition to hosting a rich array of content on the CATA data portal, we also focus on communication efforts (Figure I-4). These include a dedicated email address for comments and questions from users. Additionally, we offer a section for frequently asked questions, featuring a range of complexities for users to explore.

(a)



Q1. What is the California Air Toxics Assessment (CATA)?

The California Air Toxics Assessment (CATA) is an ongoing comprehensive evaluation of air toxics in California. CATA estimates exposure and the associated health risks from inhaling toxic air contaminants. It identifies areas vulnerable to air toxic exposure and prioritizes emission sources and species that contribute most significantly to these health risks. The assessment incorporates the latest data on emissions and meteorology, employs state of the science modeling techniques, and follows the latest OEHHA health risk assessment guidelines for an in-depth analysis. CATA is crucial for making regulatory decisions, devising effective pollution control measures, and enhancing public awareness. Thus far, CATA has played a vital role in tracking health risk reduction trends, supporting initiatives such as AB 617, addressing environmental justice, regulatory rule-making, and more.

Q2. How often is the data updated?

CATA is a triennial assessment, so the data are expected to be updated every three years.

(b)

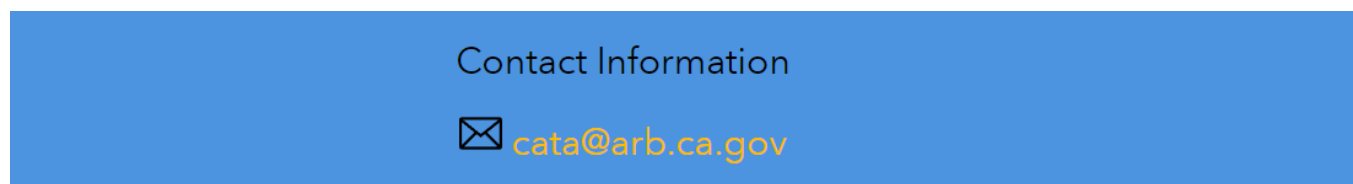


Figure I-4. The CATA data portal focuses on various communication efforts for users, including (a) a Frequently Asked Questions section, and (b) a designated CATA email address.

In conclusion, the California Air Toxics Assessment (CATA) data portal serves as an interactive, user-friendly platform that presents invaluable information on the California Air Toxics Assessment (CATA). Its design is guided by three core principles – providing rich and reliable content, facilitating effective communication, and promoting open data accessibility. As we continue to evolve and refine this portal, we hope to provide a more engaging, insightful, and transparent experience for our users. We welcome feedback and look forward to furthering our commitment to improving the quality of air and health outcomes in California.