

US EPA ARCHIVE DOCUMENT

Community-Focused Exposure and Risk Screening Tool (C-FERST)



Community Data Table Quick Start Guide

Office of Research and Development
National Exposure Research Laboratory

C-FERST Community Data Table Quick Start Guide

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Introduction to C-FERST Community Data Table

The **Community Data Table (CDT)** allows users to learn more about their environmental issues and risks by viewing a table of data relevant to their community. The data presented includes available estimates of environmental concentrations, human exposure, and human health risks in addition to demographic, social and economic data. The information contained in the CDT is shown for a US Census tract (or neighborhood grouping), county, and state. For definitions of the terminology related to the non-demographic data, please refer to the National Air Toxics Assessment (NATA) webpage of [NATA: Glossary of Terms](#).

This guide will provide instructions on how to create a C-FERST CDT.

How to create a C-FERST Community Data Table

Step 1: Open the Community Data Table (CDT)

From the C-FERST Community Data Table page, navigate to the CDT by selecting “Community Data Table” under “View Your Community Data Table”.

The screenshot shows the EPA website's C-FERST page. The header includes the EPA logo and navigation tabs for 'Learn the Issues', 'Science & Technology', 'Laws & Regulations', and 'About EPA'. A search bar is located in the top right. The main content area is titled 'C-FERST Community Data Table' and includes a breadcrumb trail: 'EPA Home » C-FERST » C-FERST Community Data Table'. A paragraph explains that the table provides estimated pollutant concentrations and risks, and advises users to view the FAQs before using the table. A 'More Information' box on the right contains links to 'Community Data Table FAQs' and 'Example uses of the Community Data Table'. Below the main text, a section titled 'View Your Community Data Table' contains a link for 'Community Data Table', which is circled in red with an arrow pointing to it. At the bottom, there is a 'Contact Us' link for user feedback.

Step 2: Select Location

Start by typing a location in the search box either by zip code or city and state. Once you start typing, a number of locations will automatically be suggested, and you can choose the location that you want to review from those options.

The screenshot shows the EPA website's C-FERST section. At the top, there are navigation tabs for 'Learn the Issues', 'Science & Technology', 'Laws & Regulations', and 'About EPA'. A search bar is located in the top right corner. Below the navigation, the page title is 'C-FERST Community Data Table'. A sidebar on the left contains various menu items like 'C-FERST Home', 'Questions and Answers', 'View Your Community', etc. The main content area features a map of the United States with a search box overlaid. The search box contains the text 'Find address or place' and is highlighted with a red circle. A red arrow points to the search box. Below the map, there is a 'Contact Us' link.

C-FERST Community Data Table

Please note that selecting your location will result in the Community Data Table opening in a new window or tab. Please check your personal browser settings to ensure the pop-up option is enabled.

This screenshot shows the search results for the zip code '27709'. The search box contains '27709' and a list of suggestions is displayed. The suggestions are: '27709, Durham, North Carolina, USA', '277090, SGP', '277091, SGP', '277092, SGP', '277093, SGP', and '277094, SGP'. The map in the background shows the location of Durham, North Carolina.

[Contact Us](#) to ask a question, provide feedback, or report a problem.

C-FERST Community Data Table

Please note that selecting your location will result in the Community Data Table opening in a new window or tab. Please check your personal browser settings to ensure the pop-up option is enabled.

This screenshot shows the search results for the city name 'durham'. The search box contains 'durham' and a list of suggestions is displayed. The suggestions are: 'Durham, North Carolina, United States', 'Durham, England, United Kingdom', 'Durham County, North Carolina, United States', 'Durham, Canada', 'Durham, New Hampshire, United States', and 'Durham, California, United States'. The map in the background shows the location of Durham, North Carolina.

[Contact Us](#) to ask a question, provide feedback, or report a problem.

To see the area that information will be provided for, click the zoom to tract button.

The screenshot displays the EPA C-FERST website. The main heading is "C-FERST Community Data Table". Below the heading, there is a search bar containing "27709, Durham, North Carolina". A search result box is open, showing "Search result" and two buttons: "Zoom to Tract" and "Pick Another Location". The "Zoom to Tract" button is circled in red. The map below shows the Durham area with a red dot indicating the selected location. The interface includes a navigation menu on the left and a search bar at the top.

If your area of interest is not in the census tract, you can move to another location:

- Type in new information into the search box
- Click the "Pick Another Location" button to select within the currently viewed map area
- Click the "Pan" button and click-and-hold your mouse button to move the map around
- Click the "Select Location" button and click on the map to pick a new location

Once you locate your area of interest, click on the map to select that tract. After the "Search result" box appears, you can see the US Census tract by selecting the "Zoom to Tract" button.

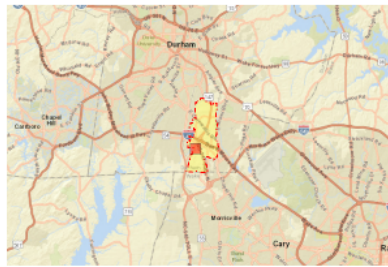
Lastly, click on the "Load Community Data Table for Tract (#####)."

Step 3: Generate Community Data Table

The “Load Community Data Table for Tract (#####)” button generates the CDT in a new window or tab. (Note: If this does not open in a new tab, please check to see that your browser settings allow for pop-ups.) The CDT provides data that is divided into sections that are shaded in the figure shown below:

- Environmental Concentration Estimates
- Human Exposure Estimates
- Health Risk Estimates
- Demographic, Social and Economic Indicators

Community Data Table



The default indicators in the table are based on EPA-related issues, stakeholder feedback, and available data. There may be other important issues that are not currently included in this table.

Indicators and Indices	Tract 980100	Durham County	North Carolina	Data Info/Notes
▶ Environmental Concentration Estimates				
▶ Human Exposure Estimates				
▼ Health Risk Estimates				
Cumulative Air Toxics Cancer Risk ¹ (risk per one million persons)	46.8	49.2	41.0	2011 NATA
Outdoor Air - Acetaldehyde Cancer Risk ¹ (risk per one million persons)	6.2	6.2	5.6	2011 NATA
Outdoor Air - Arsenic Cancer Risk ¹ (risk per one million persons)	0.2	0.2	0.2	2011 NATA
Outdoor Air - Benzene Cancer Risk ¹ (risk per one million persons)	4.0	5.2	3.9	2011 NATA
Outdoor Air - Butadiene Cancer Risk ¹ (risk per one million persons)	1.38	1.85	1.19	2011 NATA
Outdoor Air - Chromium Cancer Risk ¹ (risk per one million persons)	0.7	0.3	0.3	2011 NATA
Outdoor Air - Formaldehyde Cancer Risk ¹ (risk per one million persons)	29.4	29.8	24.9	2011 NATA
Outdoor Air - Naphthalene Cancer Risk ¹ (risk per one million persons)	0.8	1.1	0.8	2011 NATA
Outdoor Air - PAH Cancer Risk ¹ (risk per one million persons)	0.2	0.2	0.2	2011 NATA
Cumulative Air Toxics Non-Cancer Respiratory Risk (Hazard Quotient ²)	1.53	1.76	1.44	2011 NATA
Outdoor Air - Acetaldehyde Non-Cancer Respiratory Risk (Hazard Quotient ²)	0.3	0.3	0.3	2011 NATA
Outdoor Air - Acrolein Non-Cancer Respiratory Risk+ (Hazard Quotient ²)	0.9	1.1	0.9	2011 NATA
Outdoor Air - Chromium Non-Cancer Respiratory Risk (Hazard Quotient ²)	0.0006	0.0002	0.0002	2011 NATA
Outdoor Air - Diesel PM Non-Cancer Respiratory Risk (Hazard Quotient ²)	NaN	NaN	NaN	2011 NATA
Outdoor Air - Formaldehyde Non-Cancer Respiratory Risk (Hazard Quotient ²)	0.2	0.2	0.2	2011 NATA
Outdoor Air - Naphthalene Non-Cancer Respiratory Risk (Hazard Quotient ²)	0.008	0.011	0.007	2011 NATA
Cumulative Air Toxics Non-Cancer Neurological Risk (Hazard Quotient ²)	0.00	0.00	0.00	2011 NATA
Outdoor Air - Lead Non-Cancer Neurological Risk (Hazard Quotient ²)	0.001	0.001	0.002	2011 NATA
▼ Demographic, Social and Economic Indicators				
% Minority	0.0	57.7	34.8	2008-2012 ACS
% Below Poverty Level	0.0	18.0	16.8	2008-2012 ACS
% Low Income (<2x poverty level)	0.0	37.5	37.5	2008-2012 ACS
% Less than Age 5 years	0.0	7.4	6.6	2008-2012 ACS
% Less than 18 Years	23.5	22.6	23.8	2008-2012 ACS
% > 64 years	0.0	9.9	13.1	2008-2012 ACS
% >= 25 years with less than a H.S. degree	0.0	13.1	15.5	2008-2012 ACS
% Linguistically Isolated Households	0.0	5.7	2.7	2008-2012 ACS
% Population American Indian and Alaskan Native	0.0	0.4	1.2	2008-2012 ACS
% Population American Indian and Alaskan Native below poverty	NaN	41.4	30.0	2008-2012 ACS

Values are shown for the selected tract, county, and state. More information about these data can be found by clicking the link in the last column (i.e., 2011 NATA or 2008-2012 ACS). The blue triangles to the left of each title can be selected to hide or show the data concerning that title. In the example, “Health Risk Estimates” and “Demographic, Social and Economic Indicators” are shown; the others are hidden.

(Note: If you want to look at a number of different sites that are in different locations, you need to generate a new Community Data Table for each location.)

Step 4: View Issue Profile Information

To view more information on a pollutant, click on the name of the pollutant that you are interested in, and open a new tab for the C-FERST Issue Profile. For example, clicking on acetaldehyde leads to the corresponding issue profile page shown below. The issue profiles provide useful information from various C-FERST resources, from both inside and outside the EPA, by putting that information into a standardized format for easy reference.

The screenshot displays the EPA website's C-FERST section for Acetaldehyde. The page includes a navigation menu on the left with options like 'C-FERST Home', 'Questions and Answers', and 'View Maps'. The main content area features a breadcrumb trail, a title 'C-FERST and Tribal-FERST Issue Profile: Acetaldehyde', and a disclaimer about non-EPA links. Below this, there are three sections: 'General Information' with a link to 'Air Toxics: Acetaldehyde', 'Sources' with a link to 'Search TRIExplorer for Reports on Acetaldehyde Releases from Stationary Sources', and 'Environmental Concentrations, Human Exposures, and Health Risks' which includes a text input field for location search.