

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



Quick Start Guide

Office of Research and Development National Exposure Research Laboratory

C-FERST Quick Start Guide

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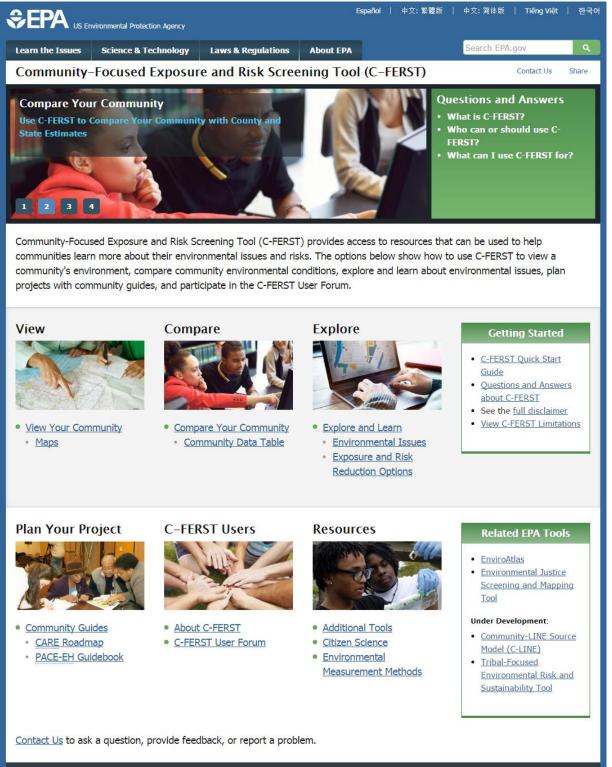
Introduction to C-FERST

The Community-Focused Exposure and Risk Screening Tool (C-FERST) is an online information access and mapping tool that communities can use to learn more about their environmental issues and exposures. The tool includes local maps, reports, fact sheets, and links to other public health tools. C-FERST also offers reports from community projects that address local issues and structured community guides that can help communities assess local environmental conditions. C-FERST is intended to provide screening-level information to help users learn about community environmental and public health issues; however, it does not quantify risk values, and is not intended to be the sole basis for any public health decision.

C-FERST is intended to serve the needs of a broad range of users, including the general public, environmental and public health professionals, state and local risk assessors, EPA community involvement coordinators and environmental justice coordinators working on local-scale issues, and academic institutions serving local communities. It may be mutually beneficial for community members and groups to work with regional, state or local environmental experts, and local academic institutions to identify and learn about issues, and interpret C-FERST data and results. C-FERST is available to anyone with a computer and an internet connection. No special software is needed, however the tool runs most effectively with a high-speed internet connection.

This Quick Start guide describes the main components of C-FERST. Each section describes how to navigate to a component of C-FERST from the C-FERST Home Page and then describes its basic features.

C-FERST Home page



The Home page in C-FERST has several main options:

- View maps of your community's environment
 - Provides examples of how to use C-FERST Maps to view your community's environment, followed by a link to the mapping tool.
- Compare local, county, and state estimates
 - Provides examples of how to use C-FERST Community Data Table to compare local estimates to county and state; includes a link to the Community Data Table.
- **Explore** information about your environment Provides examples of how to use C-FERST Environmental Issue Profiles to learn information about your environment and how to find Exposure and Risk Reduction options projects.
- Plan Your Project with community guides
 - Contains information on how C-FERST can be used in conjunction with community assessment guides, including EPA's Community Action for a Renewed Environment (CARE) Roadmap, and the National Association of City and County Health Officials (NACCHO) Protocol for Assessing Community Excellence in Environmental Health (PACE-EH) Guidebook.
- C-FERST Users
 - Contains information about C-FERST like answers to common questions and how to participate in the C-FERST User Forum.
- Resources
 - Contains information beyond C-FERST regarding additional tools, citizen science, and environmental measurement methods.

There are also boxes on the side of the web page with links to:

- Questions and Answers
- C-FERST Disclaimer and Limitations
- Related EPA tools
- EPA Tools Under Development

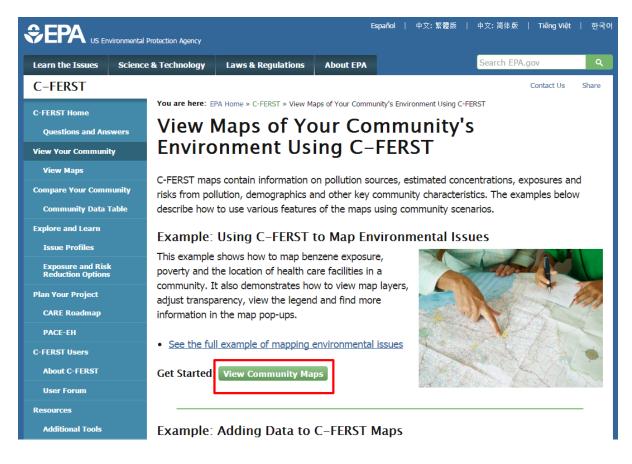
If at any time you need assistance, a "Contact Us" link is available at the bottom of the page. Use this link to ask questions, provide feedback, or report a problem.

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View Maps of Your Community's Environment

How to Access the Maps from the C-FERST Home page

1) Go to View Maps of your Community's Environment. This page contains a description and examples, followed by a button to Get Started: "View Community Maps"



2) Returning users can click the Maps link under View





Compare Your Community Community Data Table



Explore and Learn Environmental Issues Exposure and Risk Reduction Options

Getting Started

- C-FERST Quick Start Guide
- Questions and Answers about C-FERST
- See the <u>full disclaimer</u>
- View C-FERST Limitations

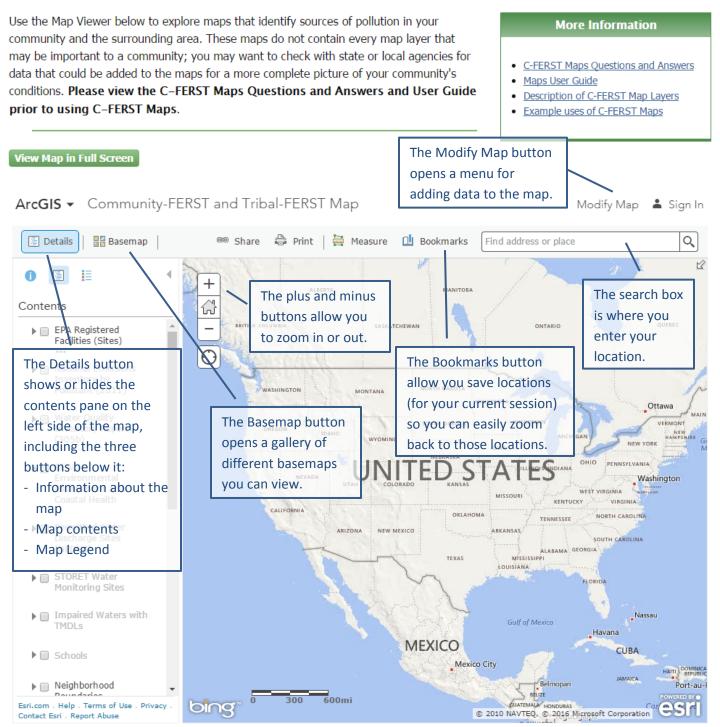
Basic Features of C-FERST Maps

You are here:

EPA Home » C-FERST » C-FERST Maps of Community Environmental Conditions

C-FERST Maps of Community Environmental Conditions

Browser Requirements



Refer to the <u>C-FERST Maps User Guide</u> for more detailed description of these features and how to use them.

Community Data Table

How to Access the Community Data Table from the C-FERST Home page

1) Go to Use C-FERST to Compare Your Community with County and State Estimates. This page contains a description and an example with a button to "Get Started: Create the Community Data Table."



2) Returning users can click the **Community Data Table** link under **Compare Your Community** on the home page.



Basic Features of the Community Data Table

Once you have reached the Community Data Table page, you can search for and select your location to generate a table like the one below. For a more detailed description of this process, see the <u>C-FERST Community Data Table Quick Start</u> <u>Guide</u>.

You are here: EPA Home » C-FERST » Community Data Table

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.

There may be other	important issues that an	e not currently included	i in this table.	
Indicators and Indices	Tract 52380	0 Wayne County	Michigan	Data Info/Notes
Environmental Concentration Estimates				
Human Exposure Estimates				
Health Risk Estimates				
umulative Air Toxics Cancer Risk ¹ (risk per one milion persons)	54.4	37.6	31.3	2011 14/55
Outdoor Air - Acetaldehyde Cancer Risk ¹ (risk per one million persons)	Columns conta	ain estimates for	3.3	The last column
Outdoor Air - Arsenic Cancer Risk ¹ (risk per one million persons)	the census tra	ct you selected,	0.2	contains a link to
Outdoor Air - Benzene Cancer Risk ¹ (risk per one milion persons)	6.0	63	5.3	<u>2011 NATA</u>
Outdoor Air - Butadiene Cancer Risk (nisk per one million persons)	as well as cour	ity and state	1.58	the data source,
outhere are several sections of the ons)	estimates.	0.5	0.3	where you can find
^o table, which can be expanded or ^{persons)}	15.9	15.7	14.3	more information
Outdoor Air - Naphthalene Cancer Risk ¹ (nsk per one million persons) collapsed by clicking on the section	1.3	1.6	12	2011 NATA
CONADSED DY CITCKING ON THE SECTION	0.5	0.3	0.2	about the data.
heading or the small arrow beside it.	1.53	1.76	1.34	2011 NATA
Outdoor Air - Acetaldehyde Non-Cancer Respiratory Risk (Hazard Quotient)	0.2	0.2	0.2	<u>2011 NATA</u>
Outdoor Air - Acrolein Non-Cancer Respiratory Risk+ (Hazard Quotient ²)	1.0	1.3	1.0	2011 NATA
Outdoor Air - Chromium Non-Cancer Respiratory Risk (Hazard Quotient ²) 👡	0.0005	0.0004	0.0003	2011 NATA
Outdoor Air - Diesel PM Non-Cancer Respiratory Risk (Hazard Quotient ²)	NaN	NaN	NaN	2011 NATA
Outdoor Air - Formaldeh de Non-Cancer Respiratory Risk (Hazard Quotient ²)	2011 NATA			
Outdoor Air - Naphthaler Each row is an environmen	2011 NATA			
unulative Air Toxics Non-Carhyperlinked ones lead to an	2011 NATA			
Outdoor Air - Lead Non-Cancer Neurological Risk (Hazard Quotient ²)	0.002	0.002	0.002	2011 NATA
Demographic, Social and Economic Indicators				

NATA Limitations NATA Frequent Questions

¹ <u>How does EPA estimate cancer risk?</u> See <u>NATA 2011</u> for more details.

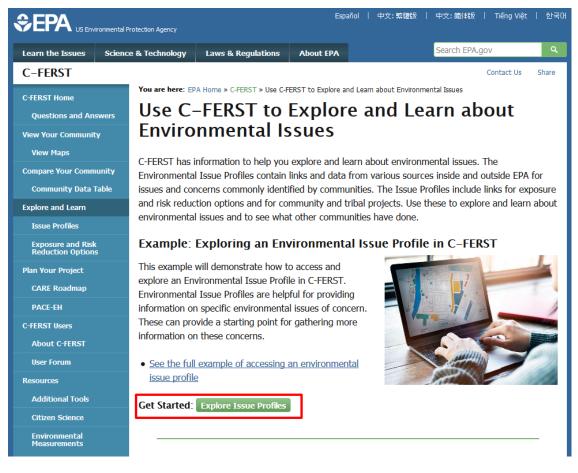
² Hazard Quotient is the ratio of the potential exposure to the substance and the level at which no adverse effects are expected. Please see <u>NATA: Glossary of Tems</u> for more information.

Curious about the data source? Find out more by clicking on the links to the Limitations, Frequent Questions, Glossary, and NATA 2011.

Environmental Issue Profiles

How to Access the Environmental Issue Profiles from the C-FERST Home page

1) Go to Use C-FERST to Explore and Learn about Environmental Issues. This page contains a description and examples, followed by a button to "Get Started: Explore Issue Profiles"



2) Returning users can click the Environmental Issues link under Explore and Learn on the home page



- <u>View Your Community</u>
 - Maps



<u>Compare Your Community</u>
 <u>Community Data Table</u>



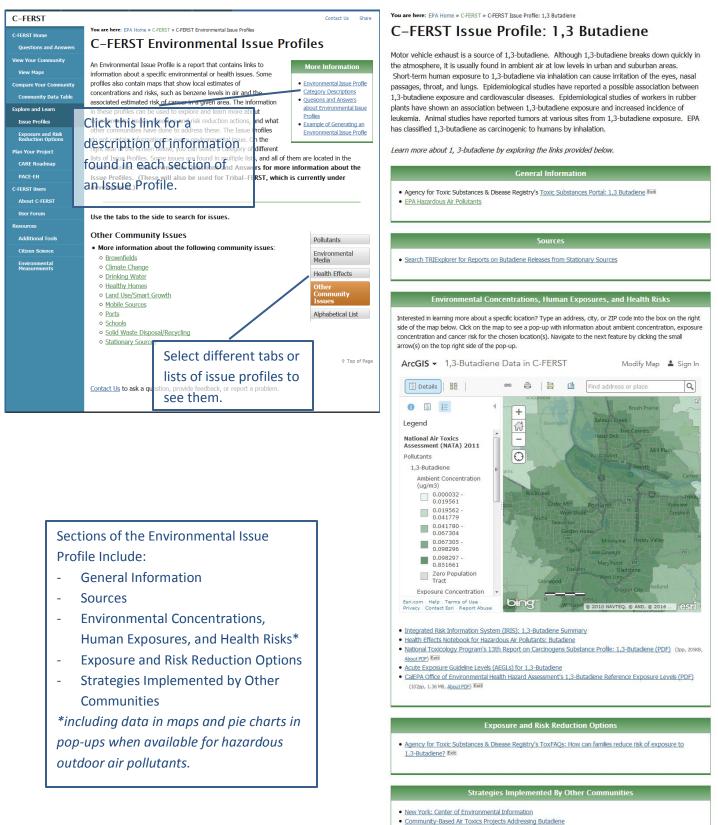
Explore and Learn
 Environmental Issues
 Exposure and Risk
 Reduction Options

Getting Started

- <u>C-FERST Quick Start</u> <u>Guide</u>
 <u>Questions and Answers</u>
- about C-FERST
- See the <u>full disclaimer</u>
 <u>View C-FERST Limitations</u>

Basic Features of an Environmental Issue Profile

Once you have reached the Environmental Issue Profiles page, you can select an issue and view an Issue Profile:

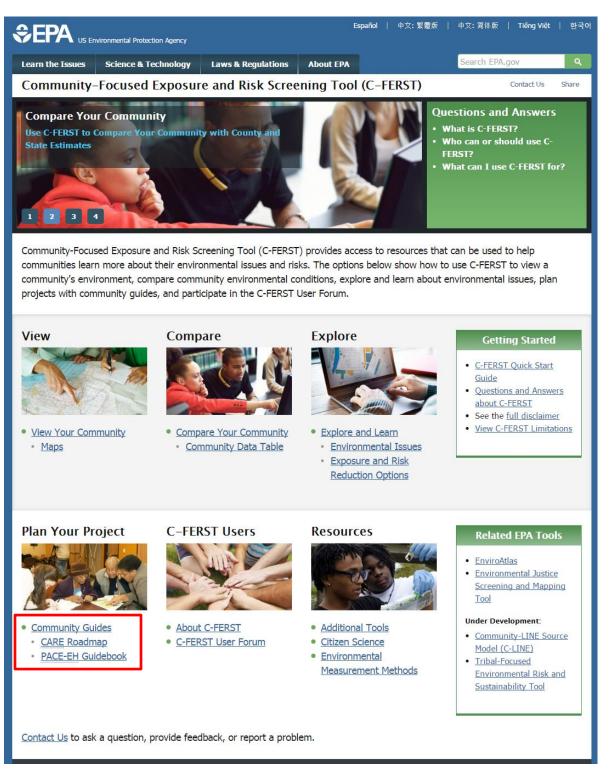


Contact Us to ask a question, provide feedback, or report a problem

Plan Your Project

How to Access Community Guides from the C-FERST Home page

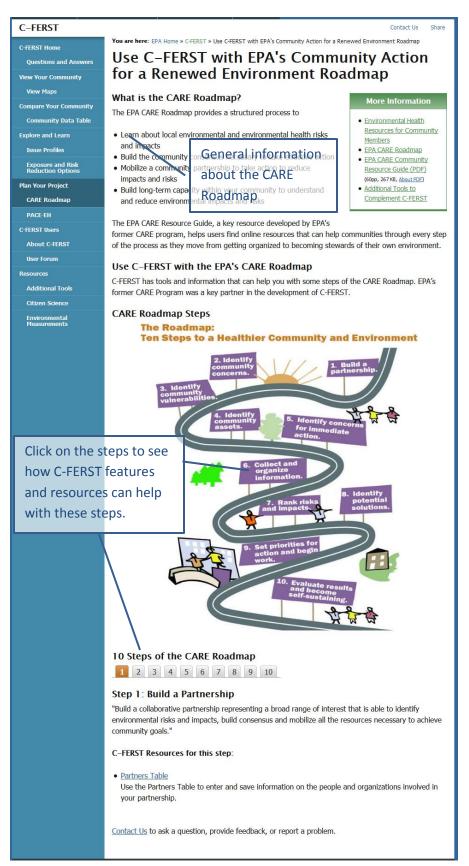
Click the Community Guides link on the Home page or click one of the guides.



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Basic Features of the Community Guides

Using the CARE Roadmap as an example:



C-FERST User Forum

How to Access the User Forum from the C-FERST Home page

1) Click the C-FERST User Forum link on the Home page



2) Click C-FERST User Forum inside the green box on the right called Ready to join the Conversation?

C-FERST

C-FERST Home Questions and Answers View Your Community View Maps Compare Your Community Community Data Table Explore and Learn Issue Profiles Exposure and Risk Reduction Options Plan Your Project CARE Roadmap

PACE-EH

C-FERST Users

About C-FERST

User Forum

Resources

You are here: EPA Home » C-FERST » C-FERST User Forum

C-FERST User Forum

Are you a C-FERST user? Get involved and contribute to discussions by asking questions or by sharing your experiences on the User Forum!

What is a User Forum?

This forum is a digital space for tool users to communicate with other users. Anyone can ask new questions or submit answers to other questions. We are very excited to host this opportunity for C-FERST communities to interact, learn from others and get help. Ready to join the Conversation? <u>C-FERST User Forum</u>

What can I do?

Join in on the excitement! Read through responses, add helpful tips for others and post your questions.

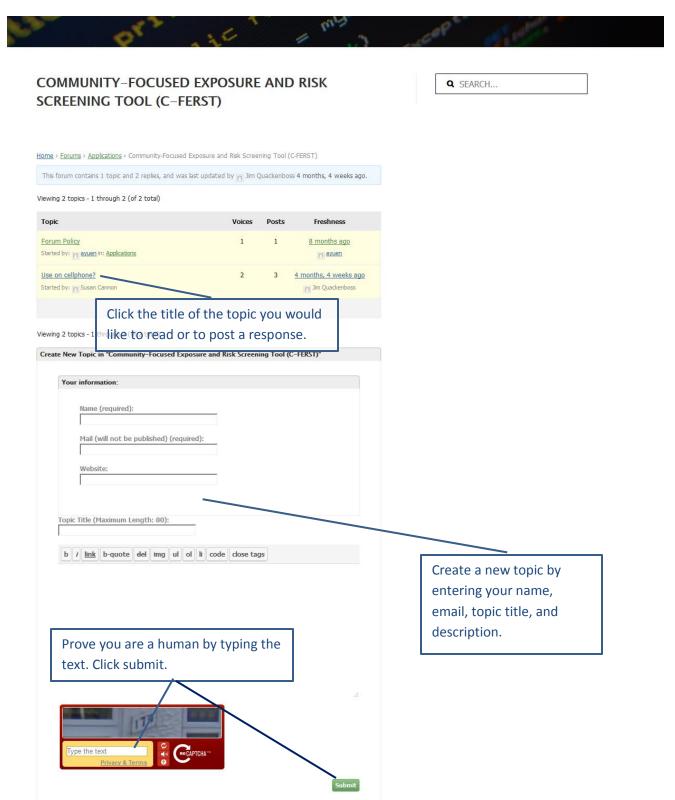
What are the guidelines for using it?

We encourage you to share your thoughts as they relate to the topic being discussed. We review and post comments according to the policy below. Please note that the views expressed in comments on the forum reflect those of the author and do not necessarily reflect the official views of the U.S. Environmental Protection Agency or the federal government.

Contact Us Share

Basic Features of the C-FERST User Forum

Once you have reached the User Forum page, you can explore existing topics or create a new topic



Resources

How to Access Environmental Measurements from the C-FERST Home page

Click the Environmental Measurement Methods link on the Home page under Resources

Plan Your Project



- Community Guides
 - <u>CARE Roadmap</u>
 - PACE-EH Guidebook

C-FERST Users



<u>About C-FERST</u>
C-FERST User Forum

Resources



Additional Tools
 Citizen Science
 Environmental
 Measurement Methods

Related EPA Tools

- EnviroAtlas
- Environmental Justice
 Screening and Mapping
 Tool

Under Development:

- <u>Community-LINE Source</u> <u>Model (C-LINE)</u>
- <u>Tribal-Focused</u>
 <u>Environmental Risk and</u>
 <u>Sustainability Tool</u>

Basic Features of Environmental Measurement Methods in C-FERST C-FERST

Contact Us Share

C-FERST Home

Questions and Answers

View Your Community

View Maps

Compare Your Community

Community Data Table

Explore and Learn

Issue Profiles

Exposure and Risk Reduction Options

Plan Your Project

CARE Roadmap

PACE-EH

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Additional Tools

Citizen Science

Environmental Measurements You are here: EPA Home » C-FERST » Environmental Measurement Methods in C-FERST

Environmental Measurement Methods in C-FERST

Environmental Measurement Methods

Below are several types of methods for measuring the level of pollutants in different environments. These methods are organized

from more basic, commercially av advanced, technical methods. The sea methods available to communities will depend on the issue of conce quality of the data needed to meet (A these tools in C-FERST does not in the

The tests are broken into different levels of analysis & different mediums (Air/Water/Soil). Lusion of

Commercially Available Co "Do-It-Yourself" Kit

- Test Kits

 <u>Screening Level Methods for</u> Air
- <u>Screening Level Methods for</u> <u>Surfaces</u>
- <u>Screening Level Methods for</u> <u>Water</u>

Commercially Available Kits that Require Laboratory Analysis

- Quantitative Screening
 <u>Methods for Air</u>
- Quantitative Screening
 <u>Methods for Surfaces</u>
- Quantitative Screening
 <u>Methods for Water</u>

View a PDF Version of the information contained in tables.

More Information

- How were these
 Environmental
 Measurement Methods
 Chosen?
- EPA Environmental
 Measurements
- <u>Additional Tools for</u>
 <u>Communities</u>
- Refined Quantitative Methods for Technical Users
- <u>EPA and Other Federal</u>
 <u>Methods for Air</u>
- <u>EPA and Other Federal</u>
 <u>Methods for Soil</u>
- <u>EPA and Other Federal</u>
 <u>Methods for Water</u>