



Overview of EPA Regulatory Compliance and Enforcement Data



Enforcement and Compliance History Online (ECHO)

<https://echo.epa.gov>

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Overview



- The U.S. Environmental Protection Agency (EPA) provides public access to its regulatory compliance and enforcement data via the Internet.
- The Enforcement and Compliance History Online (ECHO) website at <https://echo.epa.gov> integrates data from major EPA information systems for public use and program management.

The screenshot displays the ECHO website interface. At the top, there is a navigation bar with "Map Legend", "Basemap Options", and a search box labeled "Zoom To" with the placeholder text "Enter city, state, and/or zip code". A "Sync Map and Table" button is also visible. The main area shows a satellite map of the United States with numerous red location markers. A "Facility Summary" panel on the right lists search criteria and results. The "Current Search" section indicates "240 Facilities Found". The "Criteria" section lists various filters, some of which are marked with a red 'X' to indicate they are selected or active.

Criteria	
Search Type: Water	
Results View: Interactive Map	
Permit Status: Effective; Expired;	X
Administratively Continued; Pending; Retired	
Permit Type: NPD - NPDES Individual Permit;	X
NGP - NPDES Master General Permit; GPC -	
General Permit Covered Facility; UFT -	
Unpermitted Facility	
Last Inspection: Not Within 5 year(s)	X
Compliance Status: Significant/Category I	X
Noncompliance	
Quarters in Violation (3 years): 12 (All	X
Quarters)	
Inspection Type: Any On-Site Inspection	X

Overview



- ECHO is EPA's public website that provides compliance information about regulated facilities.
 - How they are regulated (Clean Air Act, Clean Water Act, Resource Conservation and Recovery Act, Safe Drinking Water Act)
 - When they were inspected
 - Whether violations of environmental regulations were found
 - Whether enforcement action was taken
- The site also provides dashboards with views of overall enforcement and compliance status trends and some bulk datasets for download.

Overview



- Compliance history for more than 800,000 EPA-regulated facilities
 - Three-year compliance status and five-year inspection and enforcement history
 - EPA and state, local, and tribal environmental agency data for:
 - Clean Air Act stationary sources
 - Clean Water Act dischargers
 - Resource Conservation and Recovery Act hazardous waste handlers
 - Safe Drinking Water Act public water systems
 - EPA inspection and enforcement action data for other statutes like EPCRA, FIFRA, and TSCA

ECHO Data Sources



- ECHO extracts data from other EPA data systems, typically on a weekly basis:
 - Integrated Compliance Information System (ICIS)
 - Resource Conservation and Recovery Act Information System (RCRAInfo)
 - Safe Drinking Water Information System (extracted quarterly)
 - Facility Registry System (links EPA-regulated facilities and permits under one ID number)
 - Envirofacts: Toxics Release Inventory (TRI) and Greenhouse Gas (GHG) pollutant release data for context
 - Full list with refresh dates on “About the Data” page (<https://echo.epa.gov/resources/echo-data/about-the-data>)

ECHO Features



- Facility-level data: click Explore Facilities for detailed search forms by media program, or click Create Maps to start with a map
- Water Pollutant Loading Tool: click Explore Facilities
- EPA Enforcement Case data: click Explore Facilities
- Trends data: click Analyze Trends for dashboards of aggregated compliance and enforcement activity data
- Bulk downloads: click Advanced Tools for data download files and web services
- ECHO Gov provides additional tools for EPA and state users (login required).

ECHO Facility Searches - Tips



- On home page, click “Explore Facilities”
- “View More Search Options” and “Expand All” show all available criteria on search forms
- Table of search results can be modified by clicking “Customize Columns”
- The data can be downloaded as an Excel file
- Adjust search criteria by clicking “Modify Search”
- Table of search results links to detailed reports
 - Detailed Facility Report: Integrated facility report (cross-statute)
 - Case Report: More information about EPA enforcement cases
 - Effluent Charts and Pollutant Report: Water pollutant discharge data
 - Air Pollutant Report

ECHO Help



- “Help” tile includes link to “ECHO Tutorials” (short videos)
- “Contact Us” link at top right of ECHO pages provides access to user support
- Site documentation
 - “Resources” tile on home page
 - “Help” buttons on all search pages and reports
- ECHO includes an online error correction process with a network of state and EPA data stewards who address data error reports.

Online Demonstration



[Online demonstration of EPA's ECHO]

The screenshot displays the ECHO (Enforcement and Compliance History Online) website interface. At the top left is the ECHO logo, a magnifying glass over a factory icon, with the text "Enforcement and Compliance History Online". To the right are links for "ECHO Gov Login" and "Contact Us". The main content area is titled "Search Community" and contains a paragraph explaining the site's purpose, a "Quick Search" section with a text input field and a "Search" button, and links for "Watch Short Video Tutorial" and "More Search Options". Surrounding the central content are several navigation buttons: "Search Community" (house icon), "Explore Facilities" (factory icon), "Create Maps" (compass icon), "Analyze Trends" (bar chart icon), "Help" (question mark icon), "Resources" (open book icon), and "Advanced Tools" (wrench icon). A "Latest News" section on the left lists three items: "What's New in ECHO", "ECHO Use Continues to Increase", and "Join the ECHO Listserv".