# Top EPA ORD Tools for States
*August 2023*

| ORD Tool | Description | ORD Point(s) of Contact | Links |
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| **Cross-Media Tools** | | | |
| CompTox Chemicals Dashboard | The CompTox Chemicals Dashboard provides easy access to chemistry, toxicity, and exposure information for over 900,000 chemicals. The Dashboard can be searched by chemical identifiers, consumer product categories, and assays/genes associated with high-throughput screening data. | Nisha Sipes Sipes.Nisha@epa.gov | **Tool:** CompTox Chemicals Dashboard<br><br>**Additional Training/Resources:**<br>NAMs Training Tool Tips<br>CompTox Chemicals Dashboard Help<br>CompTox Chemicals Dashboard Training Fall 2022<br>CompTox Chemicals Dashboard Training Webinar Archive |
| EnviroAtlas | EnviroAtlas provides geospatial data, easy-to-use tools, and other resources related to ecosystem services, their chemical and non-chemical stressors, and linkages to human health. | Anne Neale Neale.Anne@epa.gov Jeremy Baynes Baynes.Jeremy@epa.gov | **Tool:** EnviroAtlas<br><br>**Additional Training/Resources:**<br>How to Use EnviroAtlas<br>EnviroAtlas Webinar Archive |
| ECOTOX | The ECOTOX Knowledgebase is a comprehensive application providing chemical environmental toxicity information on aquatic life, terrestrial plants, and wildlife. The tool allows users to navigate and explore data that can inform ecological risk assessments supporting pesticide registrations and re-registrations, ambient water quality criteria, and emergency response assessments for chemicals. | Jennifer Olker Olker.Jennifer@epa.gov | **Tool:** ECOTOX Knowledgebase Resource Hub<br><br>**Additional Training/Resources:**<br>ECOTOX Knowledgebase Help Webpage<br>ECOTOX Encore Virtual Training Recording<br>ECOTOXicology Knowledgebase Virtual Training<br>ECOTOXicology Knowledgebase Training |
| IRIS | EPA's Integrated Risk Information System (IRIS) program identifies and characterizes the health hazards of chemicals found in the environment. Each IRIS assessment can cover a chemical, a | Kris Thayer Thayer.Kris@epa.gov | **Tool:** Integrated Risk Information System |

| | group of related chemicals, or a complex mixture. IRIS assessments are an important source of toxicity information used by EPA, state and local health agencies, other federal agencies, and international health organizations. | | **Additional Training/Resources:** [Basic Information about the Integrated Risk Information System](#) |
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| ROE | EPA's Report on the Environment (ROE) is a comprehensive source of the best available indicators on the status and trends in the environment and human health. The indicators describe the current status and historical trends in air, water, land, human health and exposure, and ecological condition at the national and, where possible, regional levels. The ROE indicators serve as a tool for EPA decision-makers, program planners, scientists, the general public and others interested in environmental science and policy to track changes in environmental condition. States may be interested in comparing state environmental trends to the national and regional level indicators presented in the ROE. | Britta Bierwagen [Bierwagen.Britta@epa.gov](mailto:Bierwagen.Britta@epa.gov) Patricia Murphy [Murphy.Patricia@epa.gov](mailto:Murphy.Patricia@epa.gov) | **Tool:** [EPA's Report on the Environment](#) **Additional Training/Resources:** [Guide to the ROE](#) |
| **Air Tools** | | | |
| Air Sensor Toolbox | EPA's Air Sensor Toolbox website provides a one-stop resource with information and guidance on how to effectively collect, analyze, and interpret air quality data. The website provides the latest science on the performance, operation and use of air sensor monitoring systems for technology developers, air quality managers, citizen scientists and the public. | Andrea Clements [Clements.Andrea@epa.gov](mailto:Clements.Andrea@epa.gov) Rachelle Duvall [Duvall.Rachelle@epa.gov](mailto:Duvall.Rachelle@epa.gov) | **Tool:** [Air Sensor Toolbox](#) **Additional Training/Resources:** [Conferences, Workshops and Webinars on Air Sensor Technology](#) |
| Smoke Sense | Smoke Sense is a citizen science, crowdsourcing effort to learn about the relationship between exposure to wildland fire smoke and health. Smoke Sense allows users to see their current and forecasted daily air quality, maps of fire locations, and satellite images of smoke plumes. It also provides a way for users to learn about how smoke can affect their health, record how smoke impacts their lives, explore wildfire smoke events, and learn how smoke impacts others in their local community. It can be used as an educational tool to increase public awareness and engagement related to wildfire smoke health risks. | Ana Rappold [Rappold.Ana@epa.gov](mailto:Rappold.Ana@epa.gov) | **Tool:** [Smoke Sense Study: A Citizen Science Project Using a Mobile App](#) **Additional Training/Resources:** [Smoke Sense Outreach Resources](#) |
| CMAQ | The Community Multiscale Air Quality Modeling System (CMAQ) combines current knowledge in atmospheric science and air | Rohit Mathur | **Tool:** [CMAQ: The Community Multiscale Air Quality Modeling System](#) |

| | quality modeling, multi-processor computing techniques, and an open-source framework to deliver comprehensive and technical sound estimates of ozone, particulates, toxics and acid deposition for air quality management, research and forecasting. | Mathur.Rohit@epa.gov Tanya Spero Spero.Tanya@epa.gov | **Additional Training/Resources:** CMAQ Webinars |
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| **Water Tools** | | | |
| CyAN App | EPA's Cyanobacteria Assessment Network mobile application (CyAN app) is an easy-to-use and customizable app that provides access to cyanobacterial bloom satellite data for over 2,000 of the largest lakes and reservoirs across the US. The tool was developed to help local and state water quality managers make faster and better-informed management decisions related to cyanobacterial blooms. | Blake Schaeffer Schaeffer.Blake@epa.gov | **Tool:** Cyanobacteria Assessment Network Application (CyAN app)<br><br>**Additional Training/Resources:** Cyanobacteria Assessment Network (CyAN) CyANWeb app user's guide CyAN Android™ app user's guide CyAN Android™ app training video |
| Freshwater Explorer | The Freshwater Explorer is an interactive web-based mapping tool that provides information about background and observed salt and mineral content for freshwater streams, lakes, and wells in all 50 US states, Puerto Rico and the US Virgin Islands. The tool provides water quality information to help federal, state, territory, Tribal and local partners make decisions about freshwater resources. It can also be used by anyone, including citizens and non-governmental organizations, to better understand national and local water quality issues. | Susan Cormier Cormier.Susan@epa.gov | **Tool:** Freshwater Explorer<br><br>**Additional Training/Resources:** Freshwater Explorer Webinar Archive |
| Stormwater Calculator | The National Stormwater Calculator (SWC) is a software application tool that was developed to help support local, state and national stormwater management objectives and regulatory efforts to reduce runoff through infiltration and retention using green infrastructure practices as low impact development (LID) controls. The primary focus of the SWC is to inform site developers on how well they can meet a desired stormwater retention target with and without the use of green infrastructure. It can also be used by landscapers and homeowners. | Corinne Wiesner-Friedman Wiesnerfriedman.Corinne @epa.gov | **Tool:** National Stormwater Calculator<br><br>**Additional Training/Resources:** National Stormwater Calculator Resources and Technical Support |

| CADDIS | The Causal Analysis/Diagnosis Decision Information System (CADDIS) is designed to help scientists and engineers in the regions, states and Tribes conduct causal assessments in aquatic systems. It provides a logical, step-by-step framework for stressor identification and provides additional information and tools that can be used in these assessments, including information on common sources, stressors and responses. CADDIS has been useful where decision-making required establishment of cause-effect relationships. | Kate Schofield Schofield.Kate@epa.gov | **Tool:** Causal Analysis/Diagnosis Decision Information System (CADDIS) **Additional Training/Resources:** Basic Information About CADDIS CADDIS Training Webinar Archive |
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| **Waste and Material Management** | | | |
| I-Waste | I-WASTE can be used by emergency response authorities, waste industry stakeholders, as well as state, Tribal and local agencies responsible for making waste management decisions. The tool provides access to guidance to work through important waste management issues to ensure public and worker safety during the removal, transport, treatment, and disposal of contaminated waste, as well as tools to estimate waste quantities and locate potential treatment and disposal treatment. | Paul Lemieux Lemieux.Paul@epa.gov | **Tool:** Incident Waste Decision Support Tool (I-WASTE DST) **Additional Training/Resources:** I-WASTE Training Webinar Archive |