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E C O S

# Communicating Your Results with ECOSResults

March 17th 2021

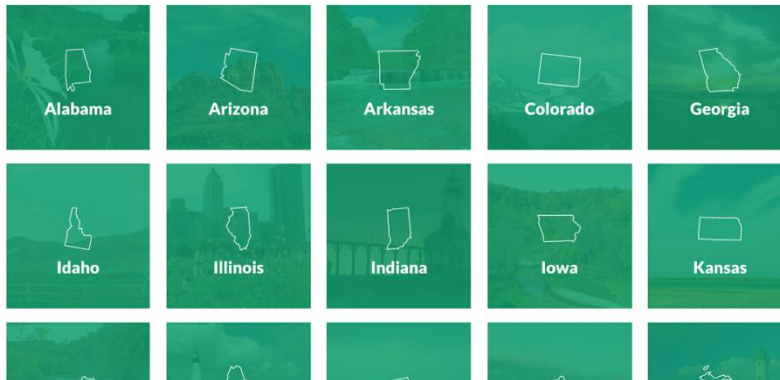
ECOS Results

SELECT A STATE

About the Project About the Measures

**ECOS Results** illustrates the outcomes of states' efforts to improve public health and the environment.

Select a state to see its progress



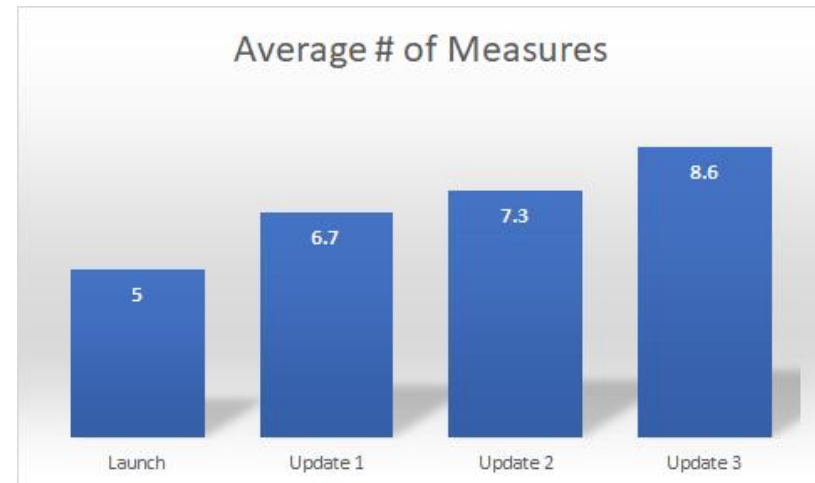
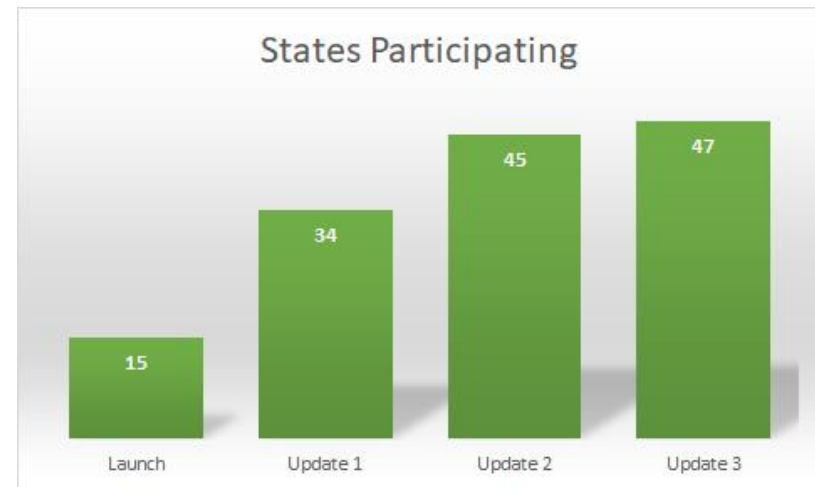
# ECOS Results

An interactive web tool displaying state-identified common measures.

Seeks to communicate public health, environmental progress, and economic impact over time.

# History

<b>2016</b>	Project initiated with pilot states
<b>Oct. 2017</b>	ECOSResults.org launched
<b>2018</b>	19 States added to the site
<b>Nov. 2018 - Feb. 2019</b>	Formed workgroup to revise measures and the site
<b>May 2019</b>	Implement workgroup changes, Data Update
<b>Nov 2020 - Present</b>	Data Update, 2 States added



# The Measures



**Air Healthy to Breathe:** Ambient Air Pollution, Point Source Emissions, Economic Indicators



**Less and Properly Managed Waste:** Brownfields, RCRA I Compliance, RCRA C Compliance, RCRA Facilities in Corrective Action, LUST Cleanups



**Water Clean and Available for All Uses:** Drinking Water, Waterbodies Monitored, Nitrogen and Phosphorus Discharged from NPDES Facilities, Wastewater Dischargers Without Significant Non-Compliance, Reduction in Nonpoint Source Pollutants, Investments in Water Infrastructure

## Participation:

- Average Number Measures Shown/State: **8.61**
- Minimum/Maximum Measures Displayed: **2/13**
- Measure with Most State Participation: **RCRA C Compliance (32 States)**



AIR



LAND



WATER

## Brownfield Cleanups Since 2007

As a result of Kansas's efforts, **2,458 acres of contaminated land** have been made available for reuse!

A brownfield is a property whose expansion, redevelopment, or reuse may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties increases local tax bases, facilitates job growth, utilizes existing infrastructure, removes development pressures from undeveloped land, and protects the environment.

For the purposes of ECOS Results, individual states had discretion with regard to whether they show both their state and U.S. EPA-led cleanups. States and EPA may have different definitions of "Acres Ready for Reuse."

[Learn more about brownfield programs.](#)

Cleanups Completed  
29

Acres ready for reuse  
2,458

Brownfield Cleanups in Kansas



Data Updated  
Dec 29, 2020

Data Source(s)  
[KS' Identified Sites List](#)  
[U.S. EPA's ACRES](#)

### Brownfield Cleanups Since 2007

of Wisconsin's efforts, **23,628 acres of contaminated land** have been made available for reuse!

redevelopment, or reuse may be  
presence of a hazardous substance,  
investing in these properties  
th, utilizes existing infrastructure,  
veloped land, and protects the

Cleanups Completed  
6,396

Brownfield Cleanups in



states had discretion with regard  
S. EPA-led cleanups. States and  
Ready for Reuse."

[programs.](#)

\* READ WISCONSIN INSIGHTS

Data Updated  
Dec 06, 2019

## ecosresults.org' Blue Sky Goal

### Citizens are better informed about state environmental progress.

"The data should motivate the viewer to ask questions [and] to think about potential solutions."

#### How should ecosresults.org be described?

Understandable

Positive

Engaging

"The audience should feel confident that our environment is progressing in the right direction while understanding that some improvement is still needed..."

#### Who are our comparators?

[MN Dashboard \(PDF\)](#)

[NH Dashboard \(Website\)](#)

[MI Dashboard \(Website\)](#)

**Project Purpose**  
To create a tool that helps states communicate stories about environmental progress.

**Project Priority**  
Show Progress

#### What is Success for this Project?

- ecosresults.org's presentation of data helps communicate the role states play in protecting human health and the environment.
- More ECOS members see the value in the ECOS Measures project as a result of ecosresults.org and sign on.

#### Who are our Audiences?

- Environmental legislative and policy decision makers
- Environmentally engaged entities (i.e. NGOs & other organizations)
- Citizens that want to become better informed

#### What are the project's Barriers to Success?

- Data availability.
- Losing the context of states' individual circumstances, which creates murky data.
- Allowing technical verbiage to dominate explanations of measures and data.

"We'll never finish if we get bogged down in every detail."



# Use Cases:

How can ECOS Results help states track and share progress and outcomes?





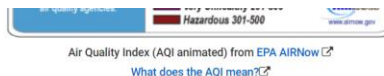
# Promotion

## New or Changed Rules

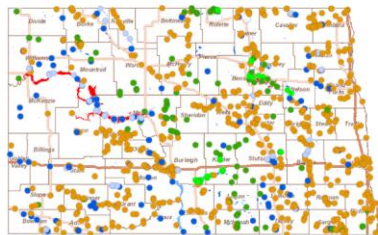


Need more information or have questions? Please call the North Dakota Department of Environmental Quality at 701-328-5150.

You may also subscribe to the email list for public notices to receive updates about new or changed rules. For information on Environmental Protection Agency regulations, please see: <http://www.epa.gov/lawsregs>.



## Surface Water Quality Data



**ECOS Results** illustrates the outcomes of states' efforts to improve public health and the environment.

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**ECOS** @ECOSates · Feb 2

In 2019, 96% of South Dakota's (SD) community water systems met all applicable health-based standards. Check out more of SD's environmental progress at [ecosresults.org/states/south-d...](https://ecosresults.org/states/south-d...) #ECOSResults

## Percent of South Dakota's community water systems *meeting all applicable health-based standards*



2011



2015



2019

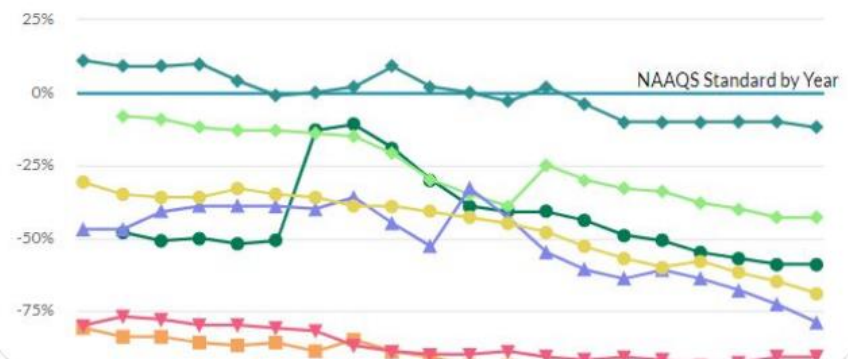


**ECOS** @ECOSates · Feb 1

In 2019, 7 out of 7 standards measured in Virginia were at or below the National Ambient Air Quality Standards. Check out more of @VirginiaDEQ's environmental progress at [ecosresults.org/states/virgini...](https://ecosresults.org/states/virgini...) #ECOSResults

## Percent Above or Below NAAQS Standard

*This data reflects measurements taken in the Richmond Metro Area.*



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# Presenting Data: Ambient Air

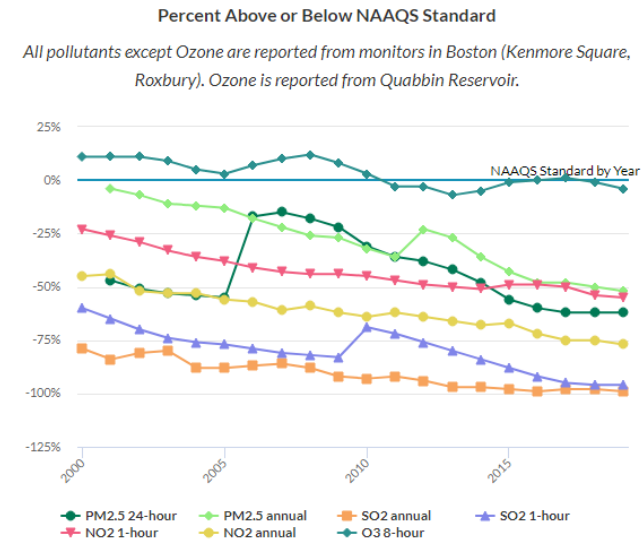
## Ambient Air Pollution

In 2019, **7 out of 7** standards measured in Massachusetts were at or below [the National Ambient Air Quality Standards \(NAAQS\)](#).

Ambient (or atmospheric) air quality refers to the concentration of pollutants in the outdoor air. Ambient air is regulated by U.S. EPA and maintained by states through the NAAQS, which is the set of guidelines on acceptable concentrations of nitrogen dioxide (NO<sub>2</sub>), ground-level ozone (O<sub>3</sub>), sulfur dioxide (SO<sub>2</sub>), particulate matter (PM), carbon monoxide (CO), and lead (Pb). NAAQS seek to protect the public, especially "sensitive" populations such as asthmatics, children, and the elderly, from harmful ambient air pollutants.

For the purposes of ECOS Results, individual states had discretion with regard to the geographical scope of areas reported.

[Learn more about the Standards.](#)



Data Updated

Dec 18, 2020

Data Source(s)

[U.S. EPA's Report on the Environment \(ROE\)](#)

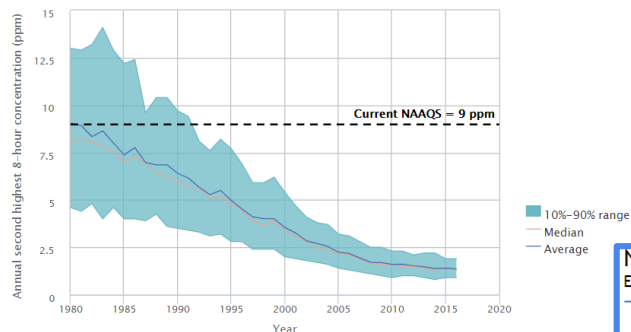
# Ambient Concentrations of Carbon Monoxide

**Exhibit 1.** Ambient 8-hour CO concentrations in the U.S., 1980-2016

**Exhibit 2.** Ambient 8-hour CO concentrations above the level of the current NAAQS in the U.S., 1980-2016

**Exhibit 3.** Ambient 8-hour CO concentrations in the contiguous U.S. by EPA Region, 1980-2016

**Exhibit 1.** Ambient 8-hour CO concentrations in the U.S., 1980-2016



The current CO NAAQS was established in 1971 and has been confirmed in subsequent reviews (U.S. EPA, 2017b).

**Coverage:** 62 monitoring sites in 47 counties nationwide (out of a total of 298 sites measuring CO in 2016) that have sufficient data to assess CO trends since 1980.

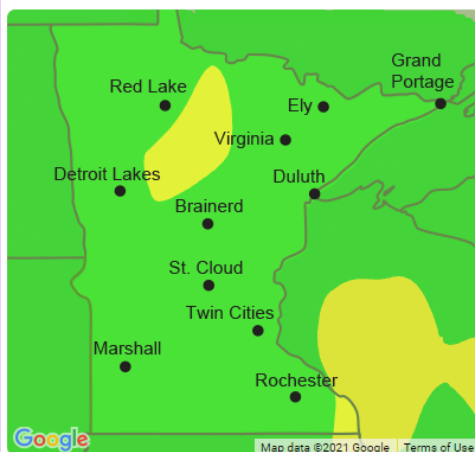
Information on the statistical significance of the trends in this exhibit is not currently available. For more information about uncertainty, variability, and statistical analysis, view the technical documentation for this indicator.

**Data source:** U.S. EPA, 2017a

US EPA

## Current air quality

## Minnesota



- Good 0-50
- Moderate 51-100
- Unhealthy for sensitive groups 101-150
- Unhealthy 151-200
- Very unhealthy 201-300

[Learn more](#)

## Current conditions

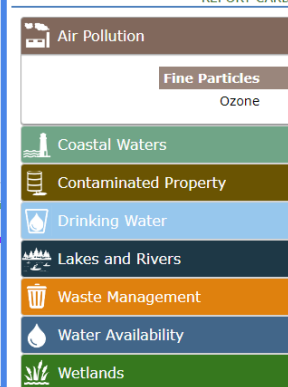
Last Updated: 03/03/2021 9AM C

Brainerd  
Detroit Lakes  
Duluth  
Ely  
Marshall  
Rochester  
St. Cloud  
Twin Cities  
(NowCast A

27 33

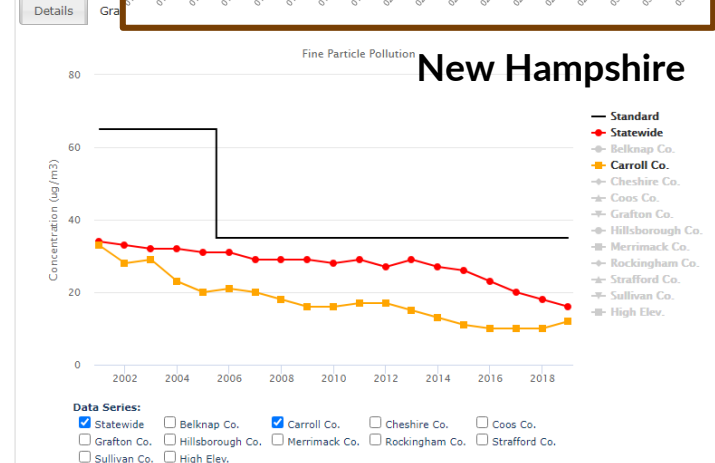
## New Hampshire's Environmental Dashboard

HOME  
REPORT CARD

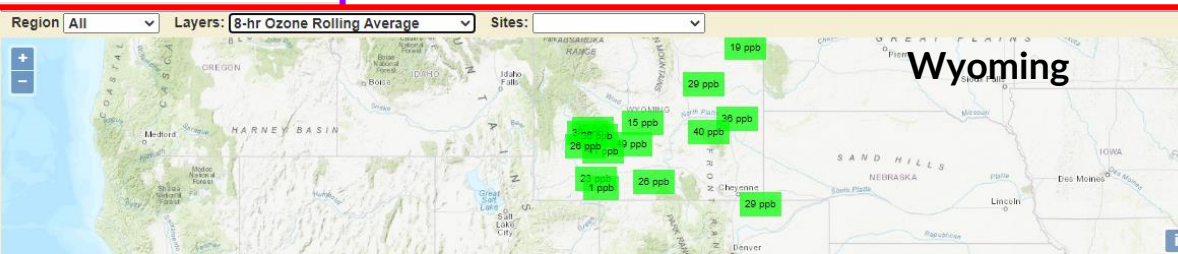


## Air Pollution:

Details Gra

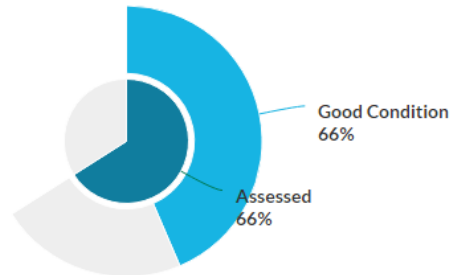


About the graph



Link	Description
Current Month Ozone	Current month's ozone data - hourly and rolling 8-hr averages
Current Month PM10	Current month's PM10 data - hourly and rolling 24-hr averages
Current Month PM2.5	Current month's PM2.5 data - hourly and rolling 24-hr averages
Last Month's Ozone	Last month's ozone data - hourly and rolling 8-hr averages
Last Month's PM10	Last month's PM10 data - hourly and rolling 24-hr averages
Last Month's PM2.5	Last month's PM2.5 data - hourly and rolling 24-hr averages

## Water Bodies Measured



**66% of Minnesota's 2,800,000 miles of lakes have been assessed** for Water Quality as of 2020.\*

Of that 66%, **66% are in good condition** for recreation.\*

[\\* READ MINNESOTA INSIGHTS](#)

Data Updated

Mar 08, 2021

Data Source(s)

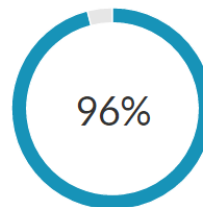
[MN's 2020 Integrated Report](#)

## Point Source Water Pollution

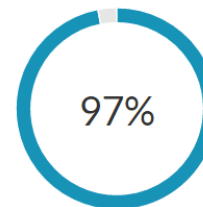
Percent of Major Wastewater Dischargers *without* Significant Noncompliance

Wastewater discharges from industrial and commercial sources may contain pollutants at levels that could adversely affect the quality of receiving waters or interfere with publicly owned treatment works that receive those discharges.

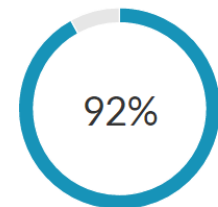
[Learn more about wastewater dischargers.](#)



2011



2015



2019

Data Updated

Mar 08, 2021

Data Source(s)

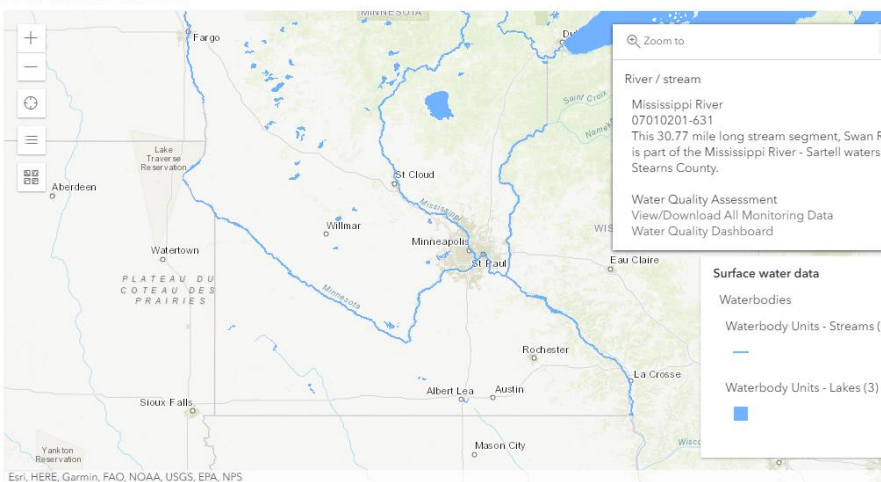
[Enforcement and Compliance History Online](#)

## Surface water data

Search by lake or stream name:

Search Reset

Find lake or stream



Find a city/place:

Enter city name then press 'Search'

## Minnesota

### Lakes and streams water quality dashboard

Print

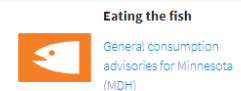
New Search

#### Mississippi River: Swan R to Sauk R (Stream)

Stream identification number: 07010201-631

#### Overall Condition:

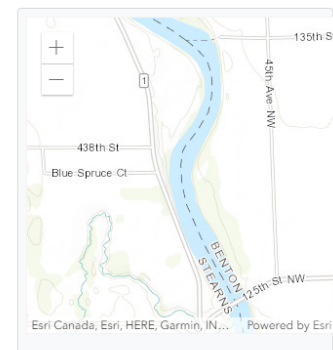
Suitable for swimming and wading, with low bacteria levels throughout the open water season. Available data indicate a thriving community of fish and other aquatic organisms.



Description	Assessments	Monitoring Data	Land Use
-------------	-------------	-----------------	----------

#### Description

Major Watershed	Mississippi River - Sartell
County	Benton, Morrison, Stearns
Length	30.77 miles
Next Segment	07010203-728 <a href="#">View</a>
Ecoregion	North Central Hardwood Forests
Former ID	07010201-501, 07010201-502, 07010201-508, 07010201-509, 07010201-513, 07010201-514, 07010201-506, 07010201-607



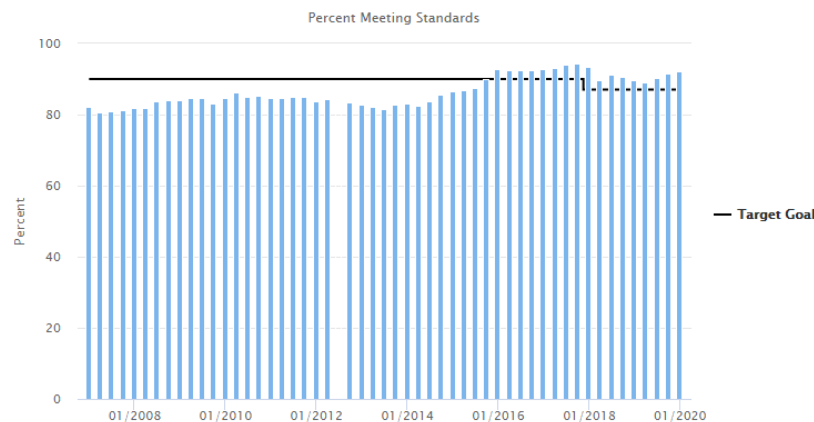
## New Hampshire's Environmental Dashboard

HOME  
REPORT CARD

- Air Pollution
- Coastal Waters
- Contaminated Property
- Drinking Water
  - Community Water Systems
  - Groundwater Protection
  - Private Wells
- Lakes and Rivers
- Waste Management
- Water Availability
- Wetlands

### Drinking Water: Community Water Systems

Details Graphs Links



[About the graph](#)

## New Hampshire

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# ECOS Results Staff Contacts

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[slongworth@ecos.org](mailto:slongworth@ecos.org)