

## How to Use United States Environmental Protection Agency’s (USEPA) Download Daily Data Portal

The United States Environmental Protection Agency (USEPA) created a website to allow the public to easily download air quality data from air monitors throughout the country. This can be accessed at [www.EPA.gov/outdoor-air-quality-data/download-daily-data](http://www.EPA.gov/outdoor-air-quality-data/download-daily-data). This provides data from all monitors reporting to USEPA, regulatory and non-regulatory. See the discussion under Difference in Data from Regulatory vs Non-Regulatory Monitoring; Ambient vs Non-Ambient Air.

The reported data is preliminary until it is submitted to the USEPA Air Quality System (AQS). The preliminary data cannot be used by regulatory agencies. This document contains the steps needed to get to and download this information.

### Download preliminary and finalized data:

To access and download preliminary data, follow the steps below.

Step 1: Open the [USEPA Download Daily Data Query](#)

Step 2. Once there, Select the Pollutant in box 1.

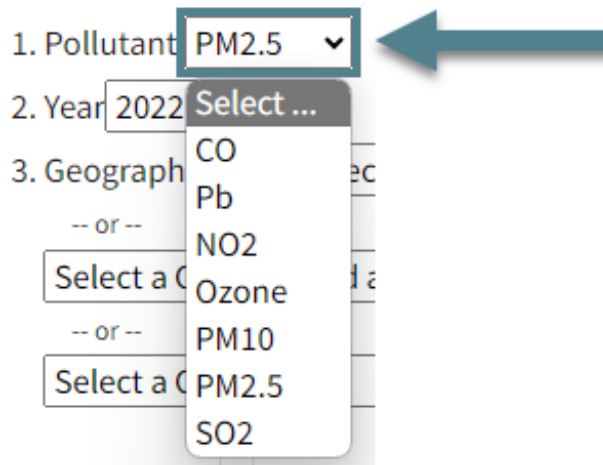
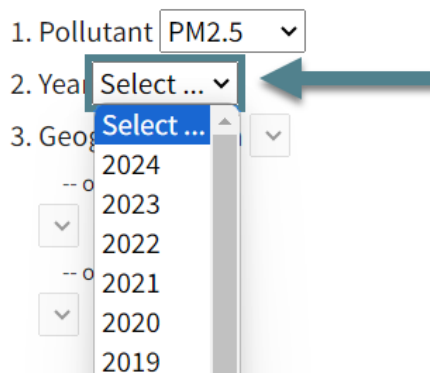


Figure 1: Download Daily Data Web Query Pollutant Selection

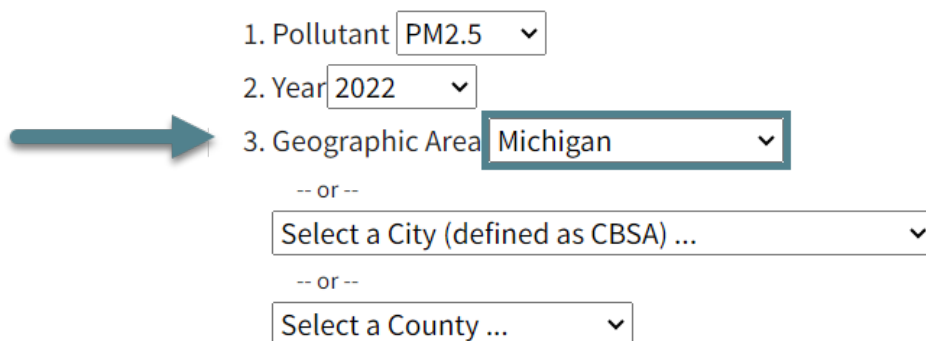
**Step 3. Select the Year in box 2.**

Note: EGLE officially submits and certifies data into AQS months after collecting the data.



**Figure 2: Download Daily Data Web Query Year Selection**

**Step 4. Select the Geographic Area in box 3 by State, City or County.**



**Figure 3: Download Daily Data Web Query Location Selection**

**Step 5. Select the Monitor Site.**

Only sites with submitted data will be displayed as selection options. You can select “all sites” or an individual site. To find an individual EGLE monitoring site number see below. To find air monitoring sites not operated by EGLE, contact Susan Kilmer from the Air Monitoring Section at [KilmerS@Michigan.gov](mailto:KilmerS@Michigan.gov).

1. Pollutant  ▾

2. Year  ▾

3. Geographic Area  ▾

-- or --

▾

-- or --

▾

4. Monitor Site  ▾

Figure 4: Download Daily Data Web Query Monitor Selection

### Find the Monitor Site Number

If you do not know the monitoring site number, you can use the [Air Monitoring Site map](#) to locate the EGLE air monitoring sites.

The Web Map ([Michigan.gov/EGLE/about/organization/Air-Quality/air-monitoring](https://Michigan.gov/EGLE/about/organization/Air-Quality/air-monitoring)) shows the location of each air monitoring site. If you click on a site, the pop-up displays the site information. The AQS ID is the monitor site number you will need for the USEPA tool.

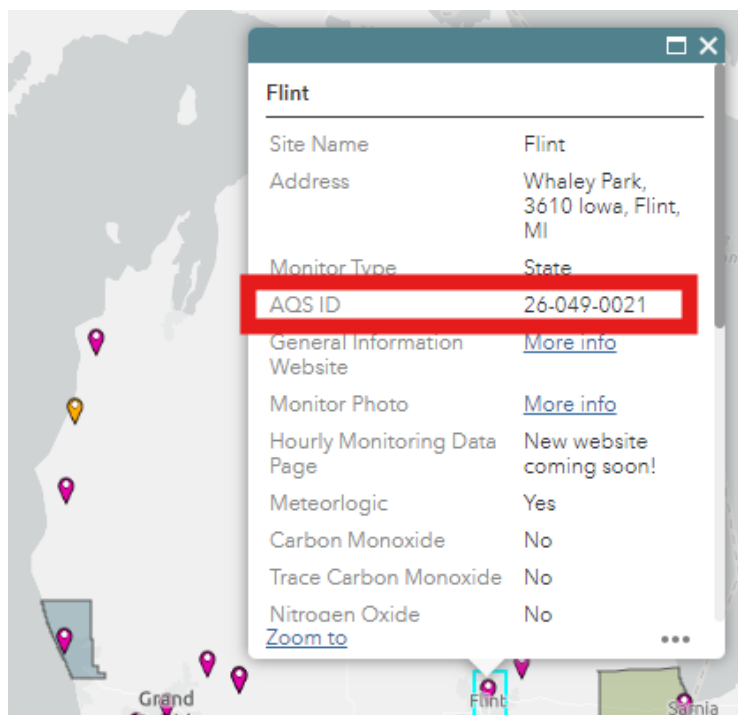


Figure 5: EGLE Air Monitoring Web Map Pop-Up Screenshot

### Step 6. Click the “Get Data” Button

1. Pollutant  ▾

2. Year  ▾

3. Geographic Area  ▾

-- or --

▾

-- or --

▾

4. Monitor Site  ▾

▾

- 260050003
- 260170014
- 260490021
- 260650018

←

Figure 6: The “Get Data” button

The message in Figure 7 will appear to allow you to download the data you indicated.

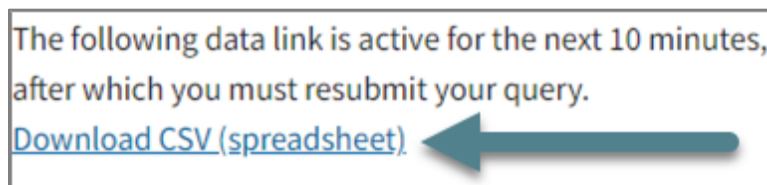


Figure 7: Data Download Message

### Step 7. Open the “Download CSV (spreadsheet)” link and use the spreadsheet.

The top row contains headings for the data contained below. Columns in the data set depend on the pollutant being measured and how the measurements are taken. Using PM<sub>2.5</sub> as an example, a portion of the data table is included in Table 1 with columns expanded to show all data.

Some of the most important pieces of information may be the Date, the Source of the data, the Daily Mean Concentration, and the Daily AQI Value. Other columns include Local Site Name; Daily Obs Count; Percent Complete; AQS Parameter Code; AQS Parameter Description; Method Code; Method Description; CBSA Code; CBSA Name; State FIPS Code; State; County FIPS Code; County; Site Latitude; and Site Longitude

Once downloaded, you can adjust the table for easier viewing. For instance, you can expand the column width to see more information.

**Table 1: A portion of Preliminary Data Table**

Date	Source	Site ID	POC	Daily Mean PM2.5 Concentration	Units	Daily AQI Value
1/13/2022	AQS	261630001	1	19.5	ug/m3 LC	70
1/14/2022	AQS	261630001	1	7.6	ug/m3 LC	42
1/15/2022	AQS	261630001	1	7.1	ug/m3 LC	39
1/16/2022	AQS	261630001	1	10.9	ug/m3 LC	54
1/17/2022	AQS	261630001	1	10.4	ug/m3 LC	53
1/18/2022	AQS	261630001	1	14.3	ug/m3 LC	61
1/19/2022	AQS	261630001	1	9.7	ug/m3 LC	52
1/20/2022	AQS	261630001	1	3.5	ug/m3 LC	19
1/21/2022	AQS	261630001	1	5.6	ug/m3 LC	31

**Difference in Data from Regulatory vs Non-Regulatory Monitoring; Ambient vs Non-Ambient Air**

*The U.S. Clean Air Act* defines Ambient Air as that portion of the atmosphere, external to buildings, to which the general public has access. This means ambient air must be accessible to the public without going on private property. Any air on a public sidewalk or street is considered ambient air.

EGLE’s air monitoring stations are regulatory monitors that measure pollutants in the ambient air. Any non-regulatory monitors; i.e., monitors on facility property, are not regulatory. EGLE and USEPA can only use regulatory monitoring data for official regulatory actions, including determining compliance with the National Ambient Air Quality Standards and permit conditions.

While some companies may run non-regulatory monitors and report the data to the USEPA, EGLE and the USEPA cannot use non-regulatory data when decisions are made. That is because those monitors do not measure ambient, or public, air.