

## Air Toxic Pollutant Trends at National Air Toxics Trends Stations (NATTS)

| Location and Pollutant |                         | Acetaldehyde | Formaldehyde | Mobile-dominated |         |              |               | PAHs                               |                                 | Chlorinated and other VOCs |            |                     |                     |                   |                    | Metals         |                 |                   |                 |                  |              |                   |                |
|------------------------|-------------------------|--------------|--------------|------------------|---------|--------------|---------------|------------------------------------|---------------------------------|----------------------------|------------|---------------------|---------------------|-------------------|--------------------|----------------|-----------------|-------------------|-----------------|------------------|--------------|-------------------|----------------|
|                        |                         |              |              | Benzene          | Toluene | Ethylbenzene | 1,3-Butadiene | Benzo(a)pyrene (total tsp & vapor) | Naphthalene (total tsp & vapor) | Carbon tetrachloride       | Chloroform | Ethylene dichloride | Tetrachloroethylene | Trichloroethylene | Methylene chloride | Vinyl chloride | Arsenic Pm10 Lc | Beryllium Pm10 Lc | Cadmium Pm10 Lc | Chromium VI (LC) | Lead Pm10 Lc | Manganese Pm10 Lc | Nickel Pm10 Lc |
| Urban                  | Phoenix, AZ             | —            | —            | ▼                | ▼       | ▼            | ▼             | —                                  | ▼                               | —                          | ▼          | —                   | ▼                   | ▼                 | ▲                  | N/A            | —               | —                 | ▼               | —                | ▼            | —                 | ▼              |
|                        | Los Angeles, CA         | —            | ▼            | ▼                | ▼       | ▼            | ▼             | ▼                                  | ▼                               | —                          | —          | ▲                   | ▼                   | ▼                 | —                  | N/A            | ▼               | —                 | ▼               | ▼                | ▼            | —                 | ▼              |
|                        | Grand Junction, CO-17   | N/A          | N/A          | N/A              | N/A     | N/A          | N/A           | N/A                                | N/A                             | N/A                        | N/A        | N/A                 | N/A                 | N/A               | N/A                | N/A            | ▼               | ▼                 | ▼               | —                | ▼            | ▼                 | —              |
|                        | Grand Junction, CO-18   | ▼            | —            | ▼                | ▼       | ▼            | ▼             | ▼                                  | ▼                               | —                          | ▲          | —                   | ▼                   | —                 | —                  | N/A            | N/A             | N/A               | N/A             | N/A              | N/A          | N/A               |                |
|                        | Washington, DC          | ▲            | —            | ▼                | ▼       | ▼            | ▼             | ▼                                  | ▼                               | —                          | —          | ▲                   | ▼                   | —                 | ▲                  | —              | —               | ▼                 | ▼               | ▼                | ▼            | ▼                 |                |
|                        | Boston, MA              | —            | —            | ▼                | ▼       | ▼            | ▼             | ▼                                  | ▼                               | ▼                          | —          | ▲                   | ▼                   | ▼                 | ▲                  | —              | —               | ▼                 | ▼               | ▼                | ▼            | ▼                 |                |
|                        | St. Louis, MO           | ▼            | ▼            | ▼                | ▼       | ▼            | ▼             | ▼                                  | ▼                               | —                          | —          | —                   | ▼                   | ▼                 | ▲                  | —              | ▼               | —                 | —               | ▼                | —            | —                 |                |
|                        | New York City, NY       | —            | —            | ▼                | ▼       | ▼            | ▼             | —                                  | ▼                               | ▼                          | ▼          | —                   | ▼                   | ▼                 | —                  | —              | ▼               | —                 | ▼               | N/A              | ▼            | ▼                 |                |
|                        | Rochester, NY           | —            | —            | ▼                | ▼       | ▼            | ▼             | —                                  | ▼                               | ▼                          | —          | —                   | ▼                   | ▼                 | —                  | —              | ▼               | ▲                 | ▼               | —                | ▼            | —                 |                |
|                        | Tulsa, OK               | —            | —            | ▼                | ▼       | ▼            | ▼             | N/A                                | N/A                             | ▼                          | —          | —                   | —                   | —                 | ▲                  | N/A            | N/A             | N/A               | N/A             | N/A              | N/A          | N/A               |                |
|                        | Portland, OR            | ▼            | ▼            | ▼                | ▼       | ▼            | ▼             | ▼                                  | ▼                               | ▲                          | —          | —                   | ▼                   | N/A               | —                  | N/A            | ▼               | —                 | —               | ▼                | —            | ▼                 |                |
|                        | Providence, RI          | ▼            | ▼            | ▼                | ▼       | ▼            | ▼             | ▼                                  | ▼                               | ▼                          | —          | ▲                   | ▼                   | ▼                 | —                  | ▼              | —               | —                 | —               | ▼                | —            | ▼                 |                |
| Seattle, WA            | —                       | —            | ▼            | ▼                | ▼       | ▼            | —             | ▼                                  | ▼                               | ▼                          | —          | ▼                   | ▼                   | —                 | —                  | N/A            | ▼               | ▼                 | ▼               | ▼                | ▼            | ▼                 |                |
| Suburban               | Rubidoux, CA            | —            | —            | ▼                | ▼       | ▼            | ▼             | —                                  | ▼                               | —                          | —          | ▲                   | ▼                   | —                 | —                  | N/A            | —               | —                 | —               | ▼                | ▼            | ▼                 | ▼              |
|                        | Pinellas Park, FL       | ▼            | —            | ▼                | ▼       | ▼            | ▼             | —                                  | ▼                               | —                          | ▼          | ▼                   | ▼                   | ▼                 | ▲                  | —              | —               | ▼                 | N/A             | ▼                | ▲            | ▼                 |                |
|                        | Decatur, GA             | ▼            | ▼            | ▼                | ▼       | —            | —             | —                                  | ▼                               | ▼                          | —          | —                   | ▼                   | —                 | ▼                  | N/A            | ▲               | N/A               | —               | —                | ▲            | ▼                 |                |
|                        | Northbrook, IL          | ▲            | ▲            | ▼                | ▼       | —            | —             | —                                  | ▼                               | ▼                          | —          | —                   | ▼                   | ▼                 | ▲                  | N/A            | —               | —                 | ▼               | —                | —            | —                 |                |
|                        | Dearborn, MI            | —            | —            | ▼                | ▼       | —            | ▼             | —                                  | ▼                               | —                          | —          | —                   | —                   | ▼                 | ▲                  | N/A            | ▼               | ▼                 | ▼               | —                | ▼            | ▼                 |                |
|                        | Pittsburgh, PA          | N/A          | N/A          | N/A              | N/A     | N/A          | N/A           | N/A                                | N/A                             | N/A                        | N/A        | N/A                 | N/A                 | N/A               | N/A                | N/A            | N/A             | N/A               | N/A             | ▼                | ▼            | N/A               | N/A            |
|                        | Bountiful, UT           | —            | —            | ▼                | ▼       | ▼            | ▼             | ▼                                  | ▼                               | —                          | ▲          | —                   | ▼                   | —                 | —                  | N/A            | —               | ▲                 | —               | ▼                | ▲            | ▼                 |                |
|                        | Richmond, VA            | ▼            | ▼            | ▼                | ▼       | ▼            | ▼             | ▼                                  | ▼                               | ▼                          | ▲          | ▲                   | ▼                   | —                 | ▲                  | N/A            | —               | ▲                 | ▼               | N/A              | ▼            | ▼                 |                |
| Rural                  | Plant City, FL          | ▼            | —            | ▼                | ▼       | ▼            | ▼             | ▲                                  | —                               | ▼                          | ▼          | —                   | ▼                   | —                 | —                  | —              | —               | ▼                 | ▼               | —                | —            | ▼                 |                |
|                        | Hazard/Grayson Lake, KY | —            | —            | ▼                | —       | ▼            | ▼             | —                                  | ▼                               | ▼                          | —          | —                   | —                   | N/A               | —                  | N/A            | ▼               | ▼                 | ▼               | ▼                | ▼            | ▼                 |                |
|                        | La Grande, OR           | —            | —            | —                | —       | ▼            | —             | ▼                                  | —                               | ▲                          | —          | —                   | ▼                   | N/A               | —                  | N/A            | —               | —                 | ▼               | N/A              | —            | ▲                 |                |
|                        | Mcbee, SC               | —            | —            | —                | —       | —            | N/A           | N/A                                | ▼                               | —                          | ▲          | ▲                   | —                   | N/A               | —                  | N/A            | —               | ▼                 | ▼               | —                | —            | ▼                 |                |
|                        | Underhill, VT           | ▼            | ▼            | ▼                | ▼       | ▼            | —             | —                                  | ▼                               | ▼                          | —          | ▲                   | —                   | —                 | —                  | —              | ▼               | —                 | N/A             | ▼                | —            | —                 |                |
|                        | Mayville/Horicon, WI    | ▼            | ▼            | —                | —       | ▼            | N/A           | —                                  | —                               | —                          | —          | —                   | —                   | —                 | ▲                  | N/A            | ▼               | N/A               | ▼               | ▼                | —            | ▼                 |                |
| Trend of Mean          |                         | ▼ Decreasing |              |                  |         | — No Trend   |               | ▲ Increasing                       |                                 |                            |            |                     |                     |                   |                    |                |                 |                   |                 |                  |              |                   |                |

Trend of Mean

▼ Decreasing

— No Trend

▲ Increasing

N/A = Undetermined data due to less than 5 years with annual means. This would occur if some (or all) years have more than 80% nondetects; other years may have insufficient data to compute an annual mean.

Trend period is 2003 - 2023 for all pollutants except for the following:

Naphthalene and Benzo(a)pyrene: 2008 - 2022

Chromium VI: 2005 - 2012

Beryllium PM10 and Ethylene Dichloride: 2004 - 2022