

2023 NEW JERSEY AIR QUALITY INDEX (AQI) EXCEEDANCE DAYS & SITES

Updated 5/22/2024

<https://nj.gov/dep/airmon/>

The AIR QUALITY INDEX (AQI) is a national index for rating daily air quality.

The higher the AQI value, the greater the level of air pollution and health concern.

An AQI value of 100 corresponds to the National Ambient Air Quality Standard (NAAQS) for a specific pollutant. For more information on the NAAQS see <https://www.epa.gov/criteria-air-pollutants/naaqs-table>.

AQI values from 101 to 150 are unhealthy for sensitive groups. AQI values over 150 are unhealthy for the general public. For more information on the AQI see <https://www.airnow.gov/aqi/aqi-basics/>.

Pollutants

O₃ – Ozone

PM_{2.5} – Fine particulate matter

Units

ppm – parts per million

µg/m³ – micrograms per cubic meter

Rating

USG = Unhealthy for Sensitive Groups

VU = Very Unhealthy

U = Unhealthy

2023 Total Number of NAAQS Exceedance Days in New Jersey

| Pollutant | Exceedance Days | USG Days | Unhealthy Days | Very Unhealthy Days |
|------------------------------|-----------------|----------|----------------|---------------------|
| Ozone | 17 | 15 | 2 | --- |
| PM _{2.5} | 9 | 4 | 4 | 1 |
| Total Individual Days | 20 | 14 | 5 | 1 |

AQI Days & Sites Over 100 in New Jersey in 2023

| Day No. | Date | Monitor Location | Pollutant | Concentration | Units | AQI Rating | AQI Value |
|---------|---------|---------------------|----------------|---------------|-------|------------|-----------|
| 1 | 4/13/23 | Chester | O ₃ | 0.071 | ppm | USG | 101 |
| | | Clarksboro | O ₃ | 0.073 | ppm | USG | 108 |
| | | Colliers Mills | O ₃ | 0.075 | ppm | USG | 115 |
| | | Flemington | O ₃ | 0.072 | ppm | USG | 105 |
| | | Monmouth University | O ₃ | 0.071 | ppm | USG | 101 |
| | | Ramapo | O ₃ | 0.071 | ppm | USG | 101 |
| | | Rutgers University | O ₃ | 0.072 | ppm | USG | 105 |
| | | Washington Crossing | O ₃ | 0.071 | ppm | USG | 101 |
| 2 | 4/14/23 | Chester | O ₃ | 0.078 | ppm | USG | 126 |
| | | Flemington | O ₃ | 0.076 | ppm | USG | 119 |
| | | Leonia | O ₃ | 0.071 | ppm | USG | 101 |
| | | Ramapo | O ₃ | 0.078 | ppm | USG | 126 |
| | | Rutgers University | O ₃ | 0.074 | ppm | USG | 112 |
| | | Washington Crossing | O ₃ | 0.072 | ppm | USG | 105 |

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AQI Days & Sites Over 100 in New Jersey in 2023 (continued)

| Day No. | Date | Monitor Location | Pollutant | Concentration | Units | AQI Rating | AQI Value |
|------------------------|-------------------|------------------------|-------------------|---------------|-------------------|------------|-----------|
| 3 | 5/12/23 | Colliers Mills | O ₃ | 0.072 | ppm | USG | 105 |
| 4 | 6/1/23 | Chester | O ₃ | 0.080 | ppm | USG | 133 |
| | | Flemington | O ₃ | 0.079 | ppm | USG | 129 |
| | | Rutgers University | O ₃ | 0.072 | ppm | USG | 105 |
| | | Millville | PM _{2.5} | 49.8 | µg/m ³ | USG | 136 |
| 5 | 6/2/23 | Camden Spruce Street | O ₃ | 0.081 | ppm | USG | 136 |
| | | Clarksboro | O ₃ | 0.089 | ppm | U | 159 |
| | | Colliers Mills | O ₃ | 0.074 | ppm | USG | 112 |
| | | Leonia | O ₃ | 0.078 | ppm | USG | 126 |
| | | Rider University | O ₃ | 0.098 | ppm | U | 182 |
| | | Rutgers University | O ₃ | 0.092 | ppm | U | 166 |
| | | Brigantine | PM _{2.5} | 53.1 | µg/m ³ | USG | 144 |
| 6 | 6/6/23 | Camden Spruce Street | PM _{2.5} | 44.3 | µg/m ³ | USG | 123 |
| | | Elizabeth Lab | PM _{2.5} | 64.1 | µg/m ³ | U | 155 |
| | | Flemington | PM _{2.5} | 58.1 | µg/m ³ | U | 152 |
| | | Fort Lee Near Road | PM _{2.5} | 66.5 | µg/m ³ | U | 157 |
| | | Jersey City Firehouse | PM _{2.5} | 61.1 | µg/m ³ | U | 154 |
| | | Paterson | PM _{2.5} | 66.3 | µg/m ³ | U | 157 |
| | | Rahway | PM _{2.5} | 63.5 | µg/m ³ | U | 155 |
| | | Rider University | PM _{2.5} | 47.2 | µg/m ³ | USG | 130 |
| | | Rutgers University | PM _{2.5} | 55.7 | µg/m ³ | U | 151 |
| | | Toms River | PM _{2.5} | 49.4 | µg/m ³ | USG | 135 |
| | | Union City High School | PM _{2.5} | 55.4 | µg/m ³ | USG | 150 |
| 7 | 6/7/23 | Brigantine | PM _{2.5} | 124.3 | µg/m ³ | U | 187 |
| | | Camden Spruce Street | PM _{2.5} | 135.9 | µg/m ³ | U | 193 |
| | | Columbia | PM _{2.5} | 120.7 | µg/m ³ | U | 185 |
| | | Elizabeth Lab | PM _{2.5} | 151.5 | µg/m ³ | VU | 202 |
| | | Flemington | PM _{2.5} | 187.1 | µg/m ³ | VU | 237 |
| | | Fort Lee Near Road | PM _{2.5} | 120.6 | µg/m ³ | U | 185 |
| | | Jersey City Firehouse | PM _{2.5} | 127.6 | µg/m ³ | U | 188 |
| | | Millville | PM _{2.5} | 106.4 | µg/m ³ | U | 177 |
| | | Paterson | PM _{2.5} | 123.4 | µg/m ³ | U | 186 |
| | | Rahway | PM _{2.5} | 150.5 | µg/m ³ | VU | 201 |
| | | Rider University | PM _{2.5} | 152.8 | µg/m ³ | VU | 203 |
| | | Rutgers University | PM _{2.5} | 172.1 | µg/m ³ | VU | 222 |
| | | Toms River | PM _{2.5} | 172.7 | µg/m ³ | VU | 223 |
| | | Trenton | PM _{2.5} | 169.3 | µg/m ³ | VU | 220 |
| Union City High School | PM _{2.5} | 114 | µg/m ³ | U | 181 | | |

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AQI Days & Sites Over 100 in New Jersey in 2023 (continued)

| Day No. | Date | Monitor Location | Pollutant | Concentration | Units | AQI Rating | AQI Value |
|------------------------|-------------------|-----------------------|-------------------|---------------|-------------------|------------|-----------|
| 8 | 6/8/23 | Brigantine | PM _{2.5} | 139.8 | µg/m ³ | U | 195 |
| | | Camden Spruce Street | PM _{2.5} | 107.8 | µg/m ³ | U | 178 |
| | | Chester | PM _{2.5} | 54.6 | µg/m ³ | USG | 148 |
| | | Clarksboro | PM _{2.5} | 104.6 | µg/m ³ | U | 176 |
| | | Columbia | PM _{2.5} | 60.1 | µg/m ³ | U | 153 |
| | | Elizabeth Lab | PM _{2.5} | 95.6 | µg/m ³ | U | 172 |
| | | Flemington | PM _{2.5} | 108.8 | µg/m ³ | U | 179 |
| | | Fort Lee Near Road | PM _{2.5} | 73.7 | µg/m ³ | U | 160 |
| | | Jersey City Firehouse | PM _{2.5} | 67 | µg/m ³ | U | 157 |
| | | Millville | PM _{2.5} | 128 | µg/m ³ | U | 188 |
| | | Paterson | PM _{2.5} | 65.9 | µg/m ³ | U | 156 |
| | | Pennsauken | PM _{2.5} | 88 | µg/m ³ | U | 168 |
| | | Rahway | PM _{2.5} | 77.5 | µg/m ³ | U | 162 |
| | | Rider University | PM _{2.5} | 101.5 | µg/m ³ | U | 175 |
| | | Rutgers University | PM _{2.5} | 107.8 | µg/m ³ | U | 178 |
| | | Toms River | PM _{2.5} | 112.6 | µg/m ³ | U | 180 |
| Trenton | PM _{2.5} | 89.6 | µg/m ³ | U | 169 | | |
| Union City High School | PM _{2.5} | 63.4 | µg/m ³ | U | 155 | | |
| 9 | 6/11/23 | Flemington | O ₃ | 0.073 | ppm | USG | 108 |
| | | Ramapo | O ₃ | 0.074 | ppm | USG | 112 |
| 10 | 6/29/23 | Ancora | O ₃ | 0.073 | ppm | USG | 108 |
| | | Camden Spruce Street | O ₃ | 0.071 | ppm | USG | 101 |
| | | Clarksboro | O ₃ | 0.078 | ppm | USG | 126 |
| | | Millville | O ₃ | 0.075 | ppm | USG | 115 |
| | | Brigantine | PM _{2.5} | 40.5 | µg/m ³ | USG | 113 |
| | | Camden Spruce Street | PM _{2.5} | 60.8 | µg/m ³ | U | 154 |
| | | Chester | PM _{2.5} | 55.6 | µg/m ³ | U | 151 |
| | | Clarksboro | PM _{2.5} | 55.8 | µg/m ³ | U | 151 |
| | | Columbia | PM _{2.5} | 58.6 | µg/m ³ | U | 153 |
| | | Elizabeth Lab | PM _{2.5} | 41.5 | µg/m ³ | USG | 116 |
| | | Flemington | PM _{2.5} | 44.4 | µg/m ³ | USG | 123 |
| | | Millville | PM _{2.5} | 51.8 | µg/m ³ | USG | 141 |
| | | Paterson | PM _{2.5} | 36.2 | µg/m ³ | USG | 103 |
| | | Rahway | PM _{2.5} | 41.8 | µg/m ³ | USG | 117 |
| | | Pennsauken | PM _{2.5} | 56.7 | µg/m ³ | U | 152 |
| | | Rider University | PM _{2.5} | 47 | µg/m ³ | USG | 129 |
| Rutgers University | PM _{2.5} | 48.2 | µg/m ³ | USG | 132 | | |
| Toms River | PM _{2.5} | 38 | µg/m ³ | USG | 107 | | |
| Trenton | PM _{2.5} | 51.9 | µg/m ³ | USG | 141 | | |

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AQI Days & Sites Over 100 in New Jersey in 2023 (continued)

| Day No. | Date | Monitor Location | Pollutant | Concentration | Units | AQI Rating | AQI Value |
|------------------------|-------------------|------------------------|-------------------|---------------|-------------------|------------|-----------|
| 11 | 6/30/23 | Bayonne | O ₃ | 0.083 | ppm | USG | 143 |
| | | Camden Spruce Street | O ₃ | 0.078 | ppm | USG | 126 |
| | | Chester | O ₃ | 0.087 | ppm | U | 154 |
| | | Clarksboro | O ₃ | 0.077 | ppm | USG | 122 |
| | | Colliers Mills | O ₃ | 0.073 | ppm | USG | 108 |
| | | Flemington | O ₃ | 0.094 | ppm | U | 172 |
| | | Leonia | O ₃ | 0.087 | ppm | U | 154 |
| | | Millville | O ₃ | 0.072 | ppm | USG | 105 |
| | | Ramapo | O ₃ | 0.078 | ppm | USG | 126 |
| | | Rider University | O ₃ | 0.086 | ppm | U | 151 |
| | | Rutgers University | O ₃ | 0.087 | ppm | U | 154 |
| | | Washington Crossing | O ₃ | 0.089 | ppm | U | 159 |
| | | Brigantine | PM _{2.5} | 38 | µg/m ³ | USG | 107 |
| | | Camden Spruce Street | PM _{2.5} | 44.3 | µg/m ³ | USG | 123 |
| | | Columbia | PM _{2.5} | 60.2 | µg/m ³ | U | 153 |
| | | Elizabeth Lab | PM _{2.5} | 66.1 | µg/m ³ | U | 156 |
| | | Flemington | PM _{2.5} | 56.4 | µg/m ³ | U | 151 |
| | | Fort Lee Near Road | PM _{2.5} | 54 | µg/m ³ | USG | 147 |
| | | Jersey City Firehouse | PM _{2.5} | 54.3 | µg/m ³ | USG | 147 |
| | | Millville | PM _{2.5} | 40.7 | µg/m ³ | USG | 114 |
| | | Rahway | PM _{2.5} | 62.1 | µg/m ³ | U | 154 |
| | | Rider University | PM _{2.5} | 63 | µg/m ³ | U | 155 |
| | | Rutgers University | PM _{2.5} | 66.3 | µg/m ³ | U | 157 |
| Toms River | PM _{2.5} | 42.2 | µg/m ³ | USG | 117 | | |
| Trenton | PM _{2.5} | 60.3 | µg/m ³ | U | 153 | | |
| Union City High School | PM _{2.5} | 54.3 | µg/m ³ | USG | 147 | | |
| 12 | 7/1/23 | Leonia | O ₃ | 0.071 | ppm | USG | 101 |
| | | Columbia | PM _{2.5} | 39 | µg/m ³ | USG | 110 |
| 13 | 7/5/23 | Bayonne | O ₃ | 0.081 | ppm | USG | 136 |
| | | Leonia | O ₃ | 0.071 | ppm | USG | 101 |
| | | Rutgers University | O ₃ | 0.075 | ppm | USG | 115 |
| | | Jersey City Firehouse | PM _{2.5} | 41.5 | µg/m ³ | USG | 116 |
| | | Union City High School | PM _{2.5} | 39.6 | µg/m ³ | USG | 111 |
| 14 | 7/11/23 | Clarksboro | O ₃ | 0.071 | ppm | USG | 101 |
| 15 | 7/12/23 | Clarksboro | O ₃ | 0.074 | ppm | USG | 112 |
| | | Colliers Mills | O ₃ | 0.075 | ppm | USG | 115 |

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AQI Days & Sites Over 100 in New Jersey in 2023 (continued)

| Day No. | Date | Monitor Location | Pollutant | Concentration | Units | AQI Rating | AQI Value |
|----------------|-------------|-------------------------|------------------|----------------------|--------------|-------------------|------------------|
| 16 | 7/20/23 | Flemington | O ₃ | 0.071 | ppm | USG | 101 |
| | | Washington Crossing | O ₃ | 0.074 | ppm | USG | 112 |
| 17 | 7/26/23 | Leonia | O ₃ | 0.071 | ppm | USG | 101 |
| | | Rider University | O ₃ | 0.078 | ppm | USG | 126 |
| | | Rutgers University | O ₃ | 0.077 | ppm | USG | 122 |
| 18 | 8/21/23 | Clarksboro | O ₃ | 0.073 | ppm | USG | 108 |
| 19 | 9/5/23 | Camden Spruce Street | O ₃ | 0.071 | ppm | USG | 101 |
| | | Monmouth University | O ₃ | 0.082 | ppm | USG | 140 |
| 20 | 9/6/23 | Monmouth University | O ₃ | 0.078 | ppm | USG | 126 |