

# COVID-19 Activity Level Report

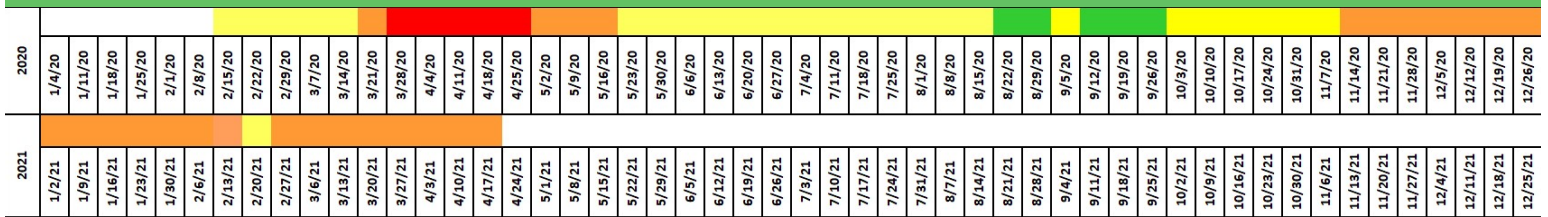
New Jersey Department of Health

Communicable Disease Service

Week ending April 17, 2021 (MMWR week 15)<sup>1</sup>



## COVID-19 Statewide Activity Level Timeline



■ Low     
 ■ Moderate     
 ■ High     
 ■ Very High






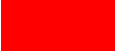
| Region <sup>2</sup> | Current Activity Level |
|---------------------|------------------------|
| Northwest           | HIGH                   |
| Northeast           | HIGH                   |
| Central West        | MODERATE               |
| Central East        | HIGH                   |
| Southwest           | HIGH                   |
| Southeast           | HIGH                   |
| STATEWIDE           | HIGH                   |

## COVID-19 Activity Level Index (CALI)

|                  | Case Rate <sup>3</sup>                      | Percent CLI <sup>4</sup>                   | Percent Positivity <sup>5</sup>            | CALI Score <sup>6</sup> |
|------------------|---|--|--|-------------------------|
| Northwest        | 30.22 <span style="color: red;">●</span>    | 5.13 <span style="color: yellow;">○</span> | 9.44 <span style="color: yellow;">○</span> | 3                       |
| Northeast        | 29.11 <span style="color: red;">●</span>    | 5.66 <span style="color: orange;">○</span> | 8.45 <span style="color: yellow;">○</span> | 3                       |
| Central West     | 21.75 <span style="color: orange;">○</span> | 3.83 <span style="color: yellow;">○</span> | 6.57 <span style="color: yellow;">○</span> | 2                       |
| Central East     | 28.59 <span style="color: red;">●</span>    | 5.84 <span style="color: orange;">○</span> | 8.63 <span style="color: yellow;">○</span> | 3                       |
| Southwest        | 27.30 <span style="color: red;">●</span>    | 4.80 <span style="color: yellow;">○</span> | 8.01 <span style="color: yellow;">○</span> | 3                       |
| Southeast        | 25.51 <span style="color: red;">●</span>    | 1.93 <span style="color: yellow;">○</span> | 8.50 <span style="color: yellow;">○</span> | 3                       |
| <b>STATEWIDE</b> |   |  |  | <b>3</b>                |

Footnotes:

1. The Morbidity and Mortality Weekly Report (MMWR) week is the week of the epidemiologic year used by the Centers for Disease Control and Prevention (CDC) for disease reporting. is assigned by the reporting local or state health department for the purposes of MMWR disease incidence reporting and publishing. MMWR weeks begin on a Sunday and end on a Saturday and are assigned a numeric value ranging from 1 to 53, although most years consist of 52 weeks. Week ending dates and associated MMWR weeks can be found at: [https://www.state.nj.us/health/cd/documents/flu/MMWR\\_2020.pdf](https://www.state.nj.us/health/cd/documents/flu/MMWR_2020.pdf)
2. The following is a breakdown of counties contained within each public health region: Northwest: Morris, Passaic, Sussex, Warren; Northeast: Bergen, Essex, Hudson; Central West: Hunterdon, Mercer, Somerset; Central East: Middlesex, Monmouth, Ocean, Union; South West: Burlington, Camden, Gloucester, Salem; South East: Atlantic, Cape May, Cumberland.
3. Case rate (per 100,000) is calculated as a proportion of the population — specifically, daily new COVID cases for every 100,000 people. Real-time polymerase chain reaction (PCR) results for COVID-19 are obtained from electronic laboratory transmission submitted by acute care, commercial and public health laboratories to CDRSS. Case rate is monitored as a 7-day average by the first positive specimen collection date – this is the date a patient’s specimen is collected. Should a patient have more than one positive specimen, only the first one is included.
4. COVID-like illness (CLI) is defined as fever and cough or dyspnea (shortness of breath, difficulty breathing, etc.) or the presence of coronavirus diagnosis codes. With the intention to focus on CLI rather than Influenza-like illness the diagnosis of another specified respiratory pathogen (influenza, parainfluenza and RSV) is excluded. Percent daily visits associated with CLI from emergency department data is collected via EpiCenter (i.e. NJDOH syndromic surveillance). CLI is monitored as a 7-day weekly average.
5. Percent positivity is the percentage of total positive COVID-19 PCR tests out of all COVID-19 PCR tests performed. Percent positivity is monitored as a 7-day average.
6. The COVID-19 Activity Level Index (CALI) Score is calculated as described below:
  - a. In each region, each indicator is assigned a value based on the activity range it falls into. Activity thresholds and values for each indicator are defined in Table 1 below.
  - b. Next, the values are averaged together. This rounded average gives the CALI Score which corresponds to the final activity level (Table 2).
  - c. The statewide activity level is calculated by averaging the CALI Scores for the 6 regions.

| Table 1: COVID-19 Activity Level Index (CALI) <sup>6a</sup> |       |                        |                          |                                 | Table 2: COVID-19 Activity Level Index (CALI) <sup>6b</sup>                          |                      |            |
|---|-------|------------------------|--------------------------|---------------------------------|--|----------------------|------------|
|   | Value | Case Rate <sup>3</sup> | Percent CLI <sup>4</sup> | Percent Positivity <sup>5</sup> | Legend   | Final Activity Level | CALI Score |
| <b>Low</b>  | 1     | < 1                    | < 1.68%                  | < 3 %                           |  | <b>Low</b>           | 1          |
| <b>Moderate</b>   | 2     | 1-10                   | 1.68 - 5.51%             | 3-10 %                          |  | <b>Moderate</b>      | 2          |
| <b>High</b>   | 3     | 10.01-25               | 5.52 - 13.08%            | 10.01-20 %                      |  | <b>High</b>          | 3          |
| <b>Very High</b>  | 4     | > 25                   | > 13.08%                 | > 20%                           |  | <b>Very High</b>     | 4          |

Activity thresholds are adapted from:

- The U.S. Influenza Surveillance System Methods: <https://www.cdc.gov/flu/weekly/overview.htm>
- CDC COVID-View: <https://www.cdc.gov/coronavirus/2019-ncov/covid-data/covidview/index.html>
- COVID-Act Now: <https://covidactnow.org/?s=856166>

For more information on how to protect yourself from COVID-19, see <https://covid19.nj.gov/>.