



Chester County COVID-19 Monitoring Report

Most Current 7 Days: 10/15/2021–10/21/2021

Published: 10/22/2021

Introduction

The data provided below are used to monitor COVID-19 in Chester County. Data is updated once a week. All data, including historical data, is updated each time this report is published as additional data becomes available through reporting and case investigations. Hence, data is considered provisional.

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County Transmission Level

County transmission level is used to categorize the overall transmission of COVID-19 in Chester County. Both incidence rate and percent positivity are considered in determining the transmission level. Each are calculated for a 7-day period and assessed against standard ranges for each level (see additional information at the end of the report). If the two data points suggest different transmission levels, the higher level is selected. Below is Chester County’s current transmission level as calculated by the Chester County Health Department and Pennsylvania Department of Health. The transmission level calculated by the Centers for Disease Control and Prevention (CDC) may differ based upon the inclusion of probable cases and which date field is used in the calculation.



Cumulative Incidence Rate per 100,000

Cumulative incidence rate is a public health measure that summarizes the number of new COVID-19 cases. The lower the incidence rate, the lower the number of new cases. This measure is calculated by dividing the total number of confirmed¹ cases by the population² for a specific time period, and is expressed as a rate per 100,000 people. The rate is calculated for 7-day periods beginning with the most current week as Week 1 and looking back three weeks in the tables below.

| 7 Day Period | Positive Case Count | Incidence Rate per 100,000 | Additional Data |
|-------------------|---------------------|----------------------------|---------------------------------------|
| Week 1 | 547 | 104.19 | Local Incidence Rates |
| Week 2 | 632 | 120.38 | |
| Week 3 | 700 | 133.34 | |
| Week 4 | 629 | 119.81 | |
| Weeks 1-4 Average | 627.00 | 119.43 | |

¹ Confirmed cases are those confirmed through a laboratory test.

² Chester County Population = 524,989



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Percent Positivity

Percent positivity is a public health measure that shows the percentage of all PCR COVID-19 tests performed that are positive. This measure is calculated by dividing the total number of positive PCR tests by the total number of all PCR tests (positives + negatives) for a specific time period, and is expressed as a percent. If individuals are tested multiple times, each test result is counted. The percent is calculated for 7-day periods beginning with the most current week as Week 1 and looking back three weeks in the tables below.

| 7 Day Period | Positive PCR Tests Count | All PCR Tests Count | Percent PCR Positivity |
|-----------------------|--------------------------|---------------------|------------------------|
| Week 1 (most current) | 625 | 10,113 | 6.18% |
| Week 2 | 698 | 11,133 | 6.27% |
| Week 3 | 780 | 12,237 | 6.37% |
| Week 4 | 699 | 11,709 | 5.97% |
| Total for All Weeks | 2,802 | 45,192 | 6.20% |

New Cases by Age

| AGE | #Past 7 Days | % Past 7 Days | AGE | #Past 30 Days | % Past 30 Days | AGE | # Cumulative | % Cumulative |
|--------------|--------------|----------------|--------------|---------------|----------------|--------------|---------------|----------------|
| 0-9 | 74 | 13.53% | 0-9 | 364 | 13.41% | 0-9 | 2,238 | 5.51% |
| 10-19 | 71 | 12.98% | 10-19 | 396 | 14.59% | 10-19 | 5,793 | 14.27% |
| 20-29 | 75 | 13.71% | 20-29 | 337 | 12.41% | 20-29 | 7,343 | 18.09% |
| 30-39 | 77 | 14.08% | 30-39 | 378 | 13.92% | 30-39 | 5,563 | 13.71% |
| 40-49 | 83 | 15.17% | 40-49 | 378 | 13.92% | 40-49 | 5,311 | 13.09% |
| 50-59 | 59 | 10.79% | 50-59 | 360 | 13.26% | 50-59 | 6,085 | 14.99% |
| 60-69 | 59 | 10.79% | 60-69 | 271 | 9.98% | 60-69 | 4,125 | 10.16% |
| 70-79 | 31 | 5.67% | 70-79 | 135 | 4.97% | 70-79 | 2,090 | 5.15% |
| 80-89 | 12 | 2.19% | 80-89 | 72 | 2.65% | 80-89 | 1,313 | 3.24% |
| 90-99 | 6 | 1.10% | 90-99 | 22 | 0.81% | 90-99 | 700 | 1.72% |
| Total | 547 | 100.00% | 100-109 | 1 | 0.04% | 100+ | 23 | 0.06% |
| | | | Unknown | 1 | 0.04% | Unknown | 1 | 0.00% |
| | | | Total | 2,715 | 100.00% | Total | 40,585 | 100.00% |



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Case Counts for Children Ages 0-18 Years

For the 2021-2022 school year, the PA Department of Health provides weekly updated case counts for two age groups: 0-4 capturing preschool and daycare age children and 5-18 capturing kindergarten through high school age children. Case counts are updated on **Thursdays** for the previous week and cumulative since August 16, 2021 by county of residence. Exposures may have occurred in a variety of settings including the community, household/family, or the school setting. The case counts presented are total case counts in these age groups and are not necessarily cases exposed in school, preschool or day care settings. The location of exposure cannot be determined for the vast majority of cases. Source: Pennsylvania National Electronic Disease Surveillance System (PA-NEDSS): [Case Count for Pre-School and School-Aged Children by County of Resident](#)

Case Counts by ZIP Code

The ZIP code level data for COVID-19 cases as reported through the PA National Electronic Surveillance System (PA-NEDSS) can be found at the PA Department of Health website: [Case Counts by ZIP Code](#)

Vaccination Levels

Vaccination levels are provided as of December 2020, when COVID-19 vaccine became available in Chester County. This data has been aggregated from data provided to the Pennsylvania Statewide Immunization Information System and Philadelphia Department of Public Health. It does not include individuals vaccinated in federal facilities (such as veteran’s hospital or federal prison), and outside of Pennsylvania, hence, these data are estimates.

| Age Group | # Partially Vax | # Fully Vax | # At Least 1 Vax ¹ | Age Population | % Partially Vax | % Fully Vax | % At Least 1 Vax ¹ |
|--------------|-----------------|----------------|-------------------------------|----------------|-----------------|-------------|-------------------------------|
| Age <10 | 0 | 0 | 0 | 59,767 | 0% | 0% | 0% |
| Age 10-14 | 2,137 | 11,118 | 13,255 | 36,210 | 6% | 31% | 37% |
| Age 15-19 | 3,441 | 22,410 | 26,354 | 37,079 | 9% | 60% | 71% |
| Age 20-24 | 2,753 | 17,867 | 21,520 | 32,756 | 8% | 55% | 66% |
| Age 25-34 | 5,206 | 37,141 | 44,468 | 60,414 | 9% | 61% | 74% |
| Age 35-44 | 5,248 | 45,060 | 52,810 | 65,560 | 8% | 69% | 81% |
| Age 45-54 | 5,038 | 49,351 | 56,708 | 70,439 | 7% | 70% | 81% |
| Age 55-59 | 2,650 | 27,669 | 31,356 | 39,292 | 7% | 70% | 80% |
| Age 60-64 | 2,826 | 27,548 | 31,150 | 36,118 | 8% | 76% | 86% |
| Age 65-74 | 5,776 | 44,228 | 51,126 | 50,678 | 11% | 87% | 101% |
| Age 75-84 | 3,016 | 23,701 | 27,195 | 25,346 | 12% | 94% | 107% |
| Age 85+ | 1,509 | 9,449 | 11,091 | 11,330 | 13% | 83% | 98% |
| Total | 39,600 | 315,542 | 367,031 | 524,989 | 8% | 60% | 70% |

¹ Partially or fully vaccinated. Includes individuals vaccinated in Philadelphia.

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| Age Group | # Partially Vax | # Fully Vax | # At Least 1 Vax ¹ | Age Population | % Partially Vax | % Fully Vax | % At Least 1 Vax ¹ |
|--------------|-----------------|----------------|-------------------------------|----------------|-----------------|-------------|-------------------------------|
| ≥ 12 Years | 39,600 | 315,542 | 367,031 | 450,738 | 9% | 70% | 81% |
| ≥ 18 Years | 37,463 | 304,424 | 353,776 | 407,023 | 9% | 75% | 87% |
| Total | 39,600 | 315,542 | 367,031 | 524,989 | 8% | 60% | 70% |

¹ Partially or fully vaccinated. Includes individuals vaccinated in Philadelphia.

Test Results and Deaths

Test result and death data have been collected since March 2020. Test results are classified as either positive or negative and include all types of tests. The table below provides a 7 day, 30 day, and cumulative count of COVID test results and deaths.

| | Last 7 Days | Last 30 Days | Cumulative ¹ |
|----------------|-------------|--------------|-------------------------|
| Positive Tests | 547 | 2,715 | 40,585 |
| Negative Tests | 2,992 | 14,698 | 269,617 |
| Deaths | 0 | 16 | 858 |

¹ Since March 2020.

Additional Information on County Transmission Level

The below table provides the ranges for incidence rate and positivity rate used to determine COVID transmission levels, and the overall approach used to prevent further transmission. Please see [CDC's COVID Data Tracker](#) for more detailed data from all areas of Pennsylvania and the U.S.

| County Transmission Level | 7-Day Incidence Rate per 100,000 | 7-Day Percent Positivity | Overall Approach |
|---------------------------|----------------------------------|--------------------------|---|
| Low | <10 | <5.0% | Largely through individual prevention behaviors and public health's identification and isolation of cases and clusters. |
| Moderate | 10-49 | 5.0% - 7.9% | Adherence to individual and selected community level prevention strategies |
| Substantial | 50 - 99 | 8.0% - 9.9% | Limiting of some everyday activities to limit contact between individuals |
| High | ≥100 | ≥10% | Significant limiting of a variety of activities to limit contact between individuals and preserve essential community activities and services |