Chester County
COVID-19 Monitoring Report
Most Current 7 Days: 11/12/2021–11/18/2021
Published: 11/19/2021

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.

In this report:

Community Transmission Level   Case Counts by ZIP Code
Incidence Rate   Vaccination Levels
Percent Positivity   Test Results and Deaths
New Cases by Age   Additional Information on County Transmission Level
Case Counts for Ages 0-18 Years

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 (PA DOH).

7-Day County Transmission Level	Low	Moderate	Substantial	High

Please Note: The transmission level calculated by the Centers for Disease Control and Prevention (CDC) differs from Chester County's calculation. The difference is in part due to the date field used in the CDC calculation.

Chester County
COVID-19 Monitoring Report
Most Current 7 Days: 11/12/2021–11/18/2021
Published: 11/19/2021

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 all[1] cases by the population[2] 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 table below.

7 Day Period	Positive Case Count	Incidence Rate per 100,000	Additional Data
Week 1	1048	199.62	
Week 2	819	156.00	Not available at this time
Week 3	685	130.48	
Week 4	633	120.57	
Weeks 1-4 Average	796.25	151.67	

[1] Cases includes those confirmed through a laboratory test, positive antigen tests, cases with symptoms and an epidemiological linkage, and cases who received positive PCR tests.

[2] Chester County Population = 524,989 (Census 2019)

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 table below.

7 Day Period	Positive PCR Tests Count	All PCR Tests Count	Percent PCR Positivity
Week 1 (most current)	753	9,788	7.69%
Week 2	596	9,207	6.47%
Week 3	537	8,773	6.12%
Week 4	521	8,971	5.81%
Total for All Weeks	2,407	36,739	6.55%

Chester County
COVID-19 Monitoring Report
Most Current 7 Days: 11/12/2021–11/18/2021
Published: 11/19/2021

New Cases by Age

AGE	#Past 7 Days	% Past 7 Days
0-9	150	12.82%
10-19	218	18.63%
20-29	121	10.34%
30-39	159	13.59%
40-49	172	14.70%
50-59	165	14.10%
60-69	111	9.49%
70-79	49	4.19%
80-89	20	1.71%
90-99	5	0.43%
Total	**1,170**	**100.00%**

AGE	#Past 30 Days	% Past 30 Days
0-9	497	14.34%
10-19	641	18.49%
20-29	384	11.08%
30-39	480	13.84%
40-49	498	14.36%
50-59	414	11.94%
60-69	312	9.00%
70-79	151	4.36%
80-89	75	2.16%
90-99	14	0.40%
100+	1	0.03%
Total	**3,467**	**100.00%**

AGE	# Cumulative	% Cumulative
0-9	3,456	6.42%
10-19	8,378	15.57%
20-29	9,338	17.35%
30-39	7,426	13.80%
40-49	7,216	13.41%
50-59	7,891	14.67%
60-69	5,149	9.57%
70-79	2,557	4.75%
80-89	1,565	2.91%
90-99	799	1.48%
100+	31	0.06%
Unknown	1	0.00%
Total	**53,807**	**100.00%**

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]
Under 5	0	0	0	28,639	0%	0%	0%
Age 5-9	5,591	6	5,597	31,128	18%	0%	18%
Age 10-14	4,690	11,308	15,998	36,210	13%	31%	44%
Age 15-19	3,225	22,862	26,590	37,079	9%	62%	72%
Age 20-24	2,821	18,254	21,975	32,756	9%	56%	67%
Age 25-34	6,013	37,985	46,119	60,414	10%	63%	76%
Age 35-44	6,724	45,925	55,151	65,560	10%	70%	84%
Age 45-54	6,166	50,122	58,607	70,439	9%	71%	83%
Age 55-59	3,336	28,077	32,450	39,292	8%	71%	83%
Age 60-64	3,695	28,076	32,547	36,118	10%	78%	90%
Age 65-74	7,509	45,178	53,809	50,678	15%	89%	106%
Age 75-84	3,926	24,324	28,728	25,346	15%	96%	113%
Age 85+	2,064	9,724	11,921	11,330	18%	86%	105%
Total	**55,760**	**321,841**	**389,490**	**524,989**	**11%**	**61%**	**74%**

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

Age Group	# Partially Vax	# Fully Vax	# At Least 1 Vax [1]	Age Population	% Partially Vax	% Fully Vax	% At Least 1 Vax [1]
5-19 Years	13,506	34,176	48,185	104,417	13%	33%	46%
>19 Years	42,254	287,665	341,305	391,933	11%	73%	87%
Total	**55,760**	**321,841**	**389,490**	**496,350**	**11%**	**65%**	**78%**

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

Chester County
COVID-19 Monitoring Report
Most Current 7 Days: 11/12/2021–11/18/2021
Published: 11/19/2021

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	1,048	3,467	53,807
Negative Tests	2,398	10,481	273,263
Deaths	2	21	884

[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