



Chester County COVID-19 Monitoring Report

Most Current 7 Days: 11/05/2021–11/11/2021

Published: 11/12/2021

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](#)

[Incidence Rate](#)

[Percent Positivity](#)

[New Cases by Age](#)

[Case Counts for Ages 0-18 Years](#)

[Case Counts by ZIP Code](#)

[Vaccination Levels](#)

[Test Results and Deaths](#)

[Additional Information on County Transmission Level](#)

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).



Please Note: The transmission level calculated by the Centers for Disease Control and Prevention (CDC) differs from Chester County’s calculation. The difference is due to: 1) the CDC including cases who received positive antigen tests, cases with symptoms and an epidemiological linkage, and cases who received positive PCR tests, and 2) the date field used in the CDC calculation. Chester County is consulting with CDC and PA DOH in this matter.



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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	512	97.53	Local Incidence Rates
Week 2	484	92.19	
Week 3	473	90.10	
Week 4	563	107.24	
Weeks 1-4 Average	508.00	96.76	

¹ Confirmed cases are those confirmed through a laboratory test.

² Chester County Population = 524,989

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)	581	9,090	6.39%
Week 2	538	8,772	6.13%
Week 3	523	8,968	5.83%
Week 4	625	10,198	6.13%
Total for All Weeks	2,267	37,028	6.12%



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New Cases by Age

AGE	#Past 7 Days	% Past 7 Days	AGE	#Past 30 Days	% Past 30 Days	AGE	# Cumulative	% Cumulative
0-9	65	12.70%	0-9	316	14.18%	0-9	2,459	5.85%
10-19	91	17.77%	10-19	325	14.59%	10-19	6,022	14.32%
20-29	66	12.89%	20-29	267	11.98%	20-29	7,512	17.86%
30-39	69	13.48%	30-39	330	14.81%	30-39	5,776	13.73%
40-49	79	15.43%	40-49	314	14.09%	40-49	5,519	13.12%
50-59	62	12.11%	50-59	265	11.89%	50-59	6,260	14.88%
60-69	47	9.18%	60-69	216	9.69%	60-69	4,271	10.15%
70-79	18	3.52%	70-79	112	5.03%	70-79	2,158	5.13%
80-89	13	2.54%	80-89	66	2.96%	80-89	1,358	3.23%
90-99	2	0.39%	90-99	15	0.67%	90-99	705	1.68%
Total	512	100.00%	100-109	2	0.09%	100+	24	0.06%
			Total	2,228	100.00%	Total	42,064	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](#)

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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	2,113	6	2,119	31,128	7%	0%	7%
Age 10-14	2,963	11,274	14,237	36,210	8%	31%	39%
Age 15-19	3,200	22,744	26,447	37,079	9%	61%	71%
Age 20-24	2,742	18,155	21,797	32,756	8%	55%	67%
Age 25-34	5,717	37,754	45,592	60,414	9%	62%	75%
Age 35-44	6,094	45,684	54,280	65,560	9%	70%	83%
Age 45-54	5,696	49,879	57,894	70,439	8%	71%	82%
Age 55-59	3,066	27,941	32,044	39,292	8%	71%	82%
Age 60-64	3,382	27,931	32,089	36,118	9%	77%	89%
Age 65-74	7,076	44,940	53,138	50,678	14%	89%	105%
Age 75-84	3,721	24,144	28,343	25,346	15%	95%	112%
Age 85+	1,975	9,561	11,669	11,330	17%	84%	103%
Total	47,745	320,013	379,647	524,989	9%	61%	72%

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	8,276	34,024	42,803	104,417	8%	33%	41%
>19 Years	39,469	285,989	336,844	391,933	10%	73%	86%
Total	47,745	320,013	379,647	496,350	10%	64%	76%

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	512	2,228	42,064
Negative Tests	2,522	11,481	276,840
Deaths	0	21	878

¹ Since March 2020.



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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