



Chester County COVID-19 Monitoring Report

Most Current 7 Days: 09/10/2021–09/16/2021

Published: 09/17/2021

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 transmission 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	621	118.29	Local Incidence Rates
Week 2	522	99.43	
Week 3	592	112.76	
Week 4	534	101.72	
Weeks 1-4 Average	567.25	108.05	

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)	697	10,856	6.42%
Week 2	578	8,807	6.56%
Week 3	638	9,843	6.48%
Week 4	600	9,967	6.02%
Total for All Weeks	2,513	39,473	6.37%

New Cases by Age

AGE	#Past 7 Days	% Past 7 Days	AGE	#Past 30 Days	% Past 30 Days	AGE	# Cumulative	% Cumulative
0-9	89	14.33%	0-9	304	12.71%	0-9	1,801	4.82%
10-19	109	17.55%	10-19	328	13.72%	10-19	5,303	14.19%
20-29	87	14.01%	20-29	366	15.31%	20-29	6,931	18.55%
30-39	89	14.33%	30-39	377	15.77%	30-39	5,110	13.68%
40-49	72	11.59%	40-49	313	13.09%	40-49	4,888	13.08%
50-59	71	11.43%	50-59	297	12.42%	50-59	5,665	15.16%
60-69	59	9.50%	60-69	226	9.45%	60-69	3,806	10.19%
70-79	30	4.83%	70-79	116	4.85%	70-79	1,930	5.17%
80-89	13	2.09%	80-89	48	2.01%	80-89	1,234	3.30%
90-99	2	0.32%	90-99	12	0.50%	90-99	669	1.79%
Total	621	100.00%	100-109	3	0.13%	100+	22	0.06%
			Unknown	1	0.04%	Unknown	3	0.01%
			Total	2,391	100.00%	Total	37,362	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, this 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	2,536	10,476	13,012	36,210	7%	29%	36%
Age 15-19	3,641	21,472	25,616	37,079	10%	58%	69%
Age 20-24	2,760	17,068	20,728	32,756	8%	52%	63%
Age 25-34	5,172	35,471	42,764	60,414	9%	59%	71%
Age 35-44	5,093	43,682	51,277	65,560	8%	67%	78%
Age 45-54	4,964	48,114	55,397	70,439	7%	68%	79%
Age 55-59	2,627	27,057	30,721	39,292	7%	69%	78%
Age 60-64	2,674	26,986	30,436	36,118	7%	75%	84%
Age 65-74	4,689	43,314	49,125	50,678	9%	85%	97%
Age 75-84	2,364	23,126	25,968	25,346	9%	91%	102%
Age 85+	1,295	9,187	10,615	11,330	11%	81%	94%
Total	37,815	305,953	355,657	524,989	7%	58%	68%

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	37,815	305,953	355,657	450,738	8%	68%	79%
≥ 18 Years	35,279	295,477	342,645	407,023	9%	73%	84%
Total	37,815	305,953	355,657	524,989	7%	58%	68%

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	621	2,391	37,362
Negative Tests	3,173	12,841	252,465
Deaths	0	7	838

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