



Chester County COVID-19 Monitoring Report

Most Current 7 Days: 12/03/2021–12/09/2021

Published: 12/10/2021

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 (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 in part due to the date field used in the CDC calculation.

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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 all¹ 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 table below.

7 Day Period	Positive Case Count	Incidence Rate per 100,000	Additional Data
Week 1	1610	306.67	Not available for this report
Week 2	1436	273.53	
Week 3	1036	197.34	
Week 4	1053	200.58	
Weeks 1-4 Average	1,283.75	244.53	

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)	1,098	11,099	9.89%
Week 2	990	9,616	10.30%
Week 3	799	10,854	7.36%
Week 4	760	9,901	7.68%
Total for All Weeks	3,647	41,470	8.79%

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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	260	16.15%	0-9	770	14.26%	0-9	4,063	7.02%
10-19	247	15.34%	10-19	885	16.39%	10-19	9,019	15.58%
20-29	204	12.67%	20-29	647	11.98%	20-29	9,845	17.01%
30-39	238	14.78%	30-39	805	14.91%	30-39	8,051	13.91%
40-49	200	12.42%	40-49	766	14.19%	40-49	7,786	13.45%
50-59	217	13.48%	50-59	703	13.02%	50-59	8,406	14.52%
60-69	150	9.32%	60-69	495	9.17%	60-69	5,524	9.54%
70-79	59	3.66%	70-79	209	3.87%	70-79	2,706	4.67%
80-89	27	1.68%	80-89	90	1.67%	80-89	1,631	2.82%
90-99	7	0.43%	90-99	28	0.52%	90-99	821	1.42%
Unk	1	0.06%	100+	1	0.02%	100+	32	0.06%
Total	1,610	100.00%	Unk	1	0.02%	Unk	2	0.00%
			Total	5,400	100.00%	Total	57,886	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	6,068	4,443	10,511	31,128	19%	14%	34%
Age 10-14	4,863	13,701	18,564	36,210	13%	38%	51%
Age 15-19	3,411	23,157	27,071	37,079	9%	62%	73%
Age 20-24	3,371	18,550	22,821	32,756	10%	57%	70%
Age 25-34	7,765	38,555	48,441	60,414	13%	64%	80%
Age 35-44	9,019	46,513	58,034	65,560	14%	71%	89%
Age 45-54	8,127	50,782	61,228	70,439	12%	72%	87%
Age 55-59	4,451	28,390	33,878	39,292	11%	72%	86%
Age 60-64	4,795	28,409	33,980	36,118	13%	79%	94%
Age 65-74	8,509	45,584	55,215	50,678	17%	90%	109%
Age 75-84	4,466	24,667	29,611	25,346	18%	97%	117%
Age 85+	2,296	9,871	12,300	11,330	20%	87%	109%
Total	67,141	332,622	411,652	524,989	13%	63%	78%

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	14,342	41,301	56,146	104,417	14%	40%	54%
> 19 Years	52,799	291,321	355,506	391,933	13%	74%	91%
Total	14,342	41,301	56,146	104,417	14%	40%	54%

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

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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	1,610	5,400	57,886
Negative Tests	2,505	10,867	279,695
Deaths	0	15	898

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