



Chester County COVID-19 Monitoring Report

Most Current 7 Days: 11/26/2021–12/02/2021

Published: 12/03/2021

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	1419	270.29	Not available at this time
Week 2	1038	197.72	
Week 3	1052	200.39	
Week 4	818	155.81	
Weeks 1-4 Average	1,081.75	206.05	

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)	973	9,295	10.47%
Week 2	801	10,858	7.38%
Week 3	760	9,904	7.67%
Week 4	594	9,201	6.46%
Total for All Weeks	3,128	39,258	7.97%



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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	199	14.02%	0-9	633	13.73%	0-9	3,803	6.76%
10-19	254	17.90%	10-19	840	18.23%	10-19	8,771	15.59%
20-29	188	13.25%	20-29	532	11.54%	20-29	9,639	17.13%
30-39	220	15.50%	30-39	677	14.69%	30-39	7,808	13.88%
40-49	211	14.87%	40-49	687	14.91%	40-49	7,585	13.48%
50-59	163	11.49%	50-59	566	12.28%	50-59	8,184	14.55%
60-69	106	7.47%	60-69	402	8.72%	60-69	5,371	9.55%
70-79	51	3.59%	70-79	171	3.71%	70-79	2,645	4.70%
80-89	21	1.48%	80-89	77	1.67%	80-89	1,604	2.85%
90-99	5	0.35%	90-99	23	0.50%	90-99	814	1.45%
100+	1	0.07%	100+	1	0.02%	100+	33	0.06%
Total	1,419	100.00%	Total	4,609	100.00%	Total	56,257	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	8,106	1,516	9,622	31,128	26%	5%	31%
Age 10-14	5,900	12,134	18,034	36,210	16%	34%	50%
Age 15-19	3,368	23,058	26,929	37,079	9%	62%	73%
Age 20-24	3,175	18,443	22,518	32,756	10%	56%	69%
Age 25-34	6,945	38,347	47,413	60,414	11%	63%	78%
Age 35-44	7,997	46,301	56,800	65,560	12%	71%	87%
Age 45-54	7,276	50,490	60,085	70,439	10%	72%	85%
Age 55-59	3,986	28,302	33,325	39,292	10%	72%	85%
Age 60-64	4,367	28,276	33,419	36,118	12%	78%	93%
Age 65-74	8,153	45,429	54,704	50,678	16%	90%	108%
Age 75-84	4,278	24,542	29,298	25,346	17%	97%	116%
Age 85+	2,211	9,819	12,163	11,330	20%	87%	107%
Total	65,762	326,657	404,308	524,989	13%	62%	77%

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	17,374	36,708	54,585	104,417	17%	35%	52%
> 19 Years	48,388	289,949	349,723	391,933	12%	74%	89%
Total	65,762	326,657	404,308	496,350	13%	66%	81%

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	1,419	4,609	56,257
Negative Tests	2,327	10,722	277,671
Deaths	0	12	890

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