



Chester County COVID-19 Monitoring Report

Most Current 7 Days: 12/20/2021–12/26/2021

Published: 12/27/2021

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	2877	548.01	Local Incidence Rates
Week 2	2150	409.53	
Week 3	2020	384.77	
Week 4	1534	292.20	
Weeks 1-4 Average	2,145.25	408.63	

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)	2,273	15,442	14.72%
Week 2	1,525	12,923	11.80%
Week 3	1,556	14,222	10.94%
Week 4	992	9,872	10.05%
Total for All Weeks	6,346	52,459	12.10%

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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	209	7.26%	0-9	953	10.80%	0-9	4,569	7.17%
10-19	518	18.00%	10-19	1,522	17.24%	10-19	10,048	15.76%
20-29	595	20.68%	20-29	1,428	16.18%	20-29	10,886	17.08%
30-39	497	17.27%	30-39	1,456	16.49%	30-39	9,059	14.21%
40-49	393	13.66%	40-49	1,165	13.20%	40-49	8,554	13.42%
50-59	342	11.89%	50-59	1,145	12.97%	50-59	9,174	14.39%
60-69	175	6.08%	60-69	657	7.44%	60-69	5,940	9.32%
70-79	101	3.51%	70-79	340	3.85%	70-79	2,937	4.61%
80-89	36	1.25%	80-89	118	1.34%	80-89	1,702	2.67%
90-99	9	0.31%	90-99	37	0.42%	90-99	845	1.33%
100+	1	0.03%	100+	4	0.05%	100+	35	0.05%
Unk	1	0.03%	Unk	3	0.03%	Unk	4	0.01%
Total	2,877	100.00%	Total	8,828	100.00%	Total	63,753	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	3,597	8,488	12,085	31,128	12%	27%	39%
Age 10-14	3,661	15,840	19,501	36,210	10%	44%	54%
Age 15-19	3,853	23,556	27,912	37,079	10%	64%	75%
Age 20-24	4,284	18,820	24,004	32,756	13%	57%	73%
Age 25-34	9,636	38,932	50,689	60,414	16%	64%	84%
Age 35-44	10,958	47,008	60,468	65,560	17%	72%	92%
Age 45-54	9,840	51,164	63,323	70,439	14%	73%	90%
Age 55-59	5,236	28,642	34,915	39,292	13%	73%	89%
Age 60-64	5,458	28,637	34,871	36,118	15%	79%	97%
Age 65-74	9,030	45,803	55,955	50,678	18%	90%	110%
Age 75-84	4,786	24,881	30,145	25,346	19%	98%	119%
Age 85+	2,406	9,955	12,494	11,330	21%	88%	110%
Total	72,745	341,726	426,360	524,989	14%	65%	81%

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	11,111	47,884	59,498	104,417	11%	46%	57%
> 19 Years	61,634	293,842	366,862	391,933	16%	75%	94%
Total	72,745	341,726	426,360	496,350	15%	69%	86%

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	2,877	8,828	63,753
Negative Tests	3,113	12,274	285,128
Deaths	1	29	922

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