



Chester County COVID-19 Monitoring Report

Most Current 7 Days: 01/07/2021–01/13/2022

Published: 01/14/2022

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	5991	1141.17	Local Incidence Rates
Week 2	6238	1188.22	
Week 3	4406	839.26	
Week 4	2645	503.82	
Weeks 1-4 Average	4,820.00	918.11	

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. Positive at-home tests (including those submitted to the Health Department or local health care providers) are not included in case counts.

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)	4,950	16,200	30.56%
Week 2	4,960	16,480	30.10%
Week 3	3,285	15,655	20.98%
Week 4	1,891	14,392	13.14%
Total for All Weeks	15,086	62,727	24.05%



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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	636	10.62%	0-9	1,688	8.47%	0-9	5,883	7.42%
10-19	878	14.66%	10-19	2,930	14.71%	10-19	12,171	15.35%
20-29	977	16.31%	20-29	3,658	18.36%	20-29	13,733	17.32%
30-39	907	15.14%	30-39	3,243	16.28%	30-39	11,559	14.58%
40-49	830	13.85%	40-49	2,777	13.94%	40-49	10,748	13.56%
50-59	790	13.19%	50-59	2,763	13.87%	50-59	11,372	14.35%
60-69	555	9.26%	60-69	1,652	8.29%	60-69	7,308	9.22%
70-79	230	3.84%	70-79	762	3.82%	70-79	3,534	4.46%
80-89	134	2.24%	80-89	327	1.64%	80-89	1,977	2.49%
90-99	50	0.83%	90-99	110	0.55%	90-99	939	1.18%
100+	1	0.02%	100+	3	0.02%	100+	37	0.05%
Unknown	3	0.05%	Unknown	10	0.05%	Unknown	12	0.02%
Total	5,991	100.00%	Total	19,923	100.00%	Total	79,273	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	3,222	10,410	13,632	31,128	10%	33%	44%
Age 10-14	3,717	17,054	20,771	36,210	10%	47%	57%
Age 15-19	4,945	24,162	29,610	37,079	13%	65%	80%
Age 20-24	5,680	19,274	25,854	32,756	17%	59%	79%
Age 25-34	11,513	39,365	52,999	60,414	19%	65%	88%
Age 35-44	12,688	47,463	62,653	65,560	19%	72%	96%
Age 45-54	11,187	51,585	65,091	70,439	16%	73%	92%
Age 55-59	5,941	28,867	35,845	39,292	15%	73%	91%
Age 60-64	5,981	28,812	35,569	36,118	17%	80%	98%
Age 65-74	9,519	46,124	56,765	50,678	19%	91%	112%
Age 75-84	5,117	25,107	30,702	25,346	20%	99%	121%
Age 85+	2,600	10,081	12,814	11,330	23%	89%	113%
Total	82,110	348,304	442,303	524,989	16%	66%	84%

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	11,884	51,626	64,013	104,417	11%	49%	61%
> 19 Years	70,226	296,678	378,290	391,933	18%	76%	97%
Total	82,110	348,304	442,303	496,350	17%	70%	89%

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	5,991	19,923	79,273
Negative Tests	2,415	12,006	284,122
Deaths	0	58	974

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