



Chester County COVID-19 Monitoring Report

Most Current 7 Days: 02/11/2022–02/17/2022

Published: 02/18/2022

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	834	158.86	Local Incidence Rates
Week 2	839	159.81	
Week 3	1343	255.81	
Week 4	2767	527.06	
Weeks 1-4 Average	1,445.75	275.39	

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)	498	6,389	7.79%
Week 2	733	7,088	10.34%
Week 3	1,284	8,221	15.62%
Week 4	2,583	11,868	21.76%
Total for All Weeks	5,098	33,566	15.19%



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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	59	7.07%	0-9	944	13.64%	0-9	7,272	8.09%
10-19	159	19.06%	10-19	1,037	14.98%	10-19	13,727	15.27%
20-29	214	25.66%	20-29	970	14.01%	20-29	15,231	16.94%
30-39	105	12.59%	30-39	1,077	15.56%	30-39	13,225	14.71%
40-49	75	8.99%	40-49	857	12.38%	40-49	12,146	13.51%
50-59	72	8.63%	50-59	789	11.40%	50-59	12,649	14.07%
60-69	69	8.27%	60-69	628	9.07%	60-69	8,290	9.22%
70-79	33	3.96%	70-79	365	5.27%	70-79	4,052	4.51%
80-89	34	4.08%	80-89	170	2.46%	80-89	2,210	2.46%
90-99	12	1.44%	90-99	78	1.13%	90-99	1,042	1.16%
Unknown	2	0.24%	100+	1	0.01%	100+	39	0.04%
Total	834	100.00%	Unknown	6	0.09%	Unknown	22	0.02%
			Total	6,922	100.00%	Total	89,905	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	2,406	13,265	15,671	31,128	8%	43%	50%
Age 10-14	3,627	19,095	22,722	36,210	10%	53%	63%
Age 15-19	5,582	24,894	30,979	37,079	15%	67%	84%
Age 20-24	6,286	19,879	27,065	32,756	19%	61%	83%
Age 25-34	12,691	40,137	54,949	60,414	21%	66%	91%
Age 35-44	13,696	48,113	64,311	65,560	21%	73%	98%
Age 45-54	11,888	52,123	66,330	70,439	17%	74%	94%
Age 55-59	6,256	29,087	36,380	39,292	16%	74%	93%
Age 60-64	6,239	29,115	36,130	36,118	17%	81%	100%
Age 65-74	9,668	46,501	57,291	50,678	19%	92%	113%
Age 75-84	5,320	25,490	31,288	25,346	21%	101%	123%
Age 85+	2,716	10,289	13,138	11,330	24%	91%	116%
Total	86,375	357,988	456,252	524,989	16%	68%	87%

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	11,615	57,254	69,372	104,417	11%	55%	66%
> 19 Years	74,760	300,734	386,880	391,933	19%	77%	99%
Total	86,375	357,988	456,252	496,350	17%	72%	92%

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	834	6,922	89,905
Negative Tests	1,099	5,876	286,910
Deaths	2	46	1,064

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