



Chester County COVID-19 Monitoring Report

Most Current 7 Days: 07/30/2021–08/05/2021

Published: 08/06/2021

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.

In this report: [Transmission Level](#) | [Incidence Rate](#) | [Percent Positivity](#) | [Vaccination](#) | [Test & Deaths](#)

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 transmission 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. The transmission level calculated by the Centers for Disease Control and Prevention (CDC) may differ based upon the inclusion of probable cases and which date field is used in the calculation.



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 confirmed¹ 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 tables below.

7 Day Period	Positive Case Count	Incidence Rate per 100,000	Additional Data
Week 1 (most current)	254	48.38	Local Incidence Rates
Week 2	136	25.91	
Week 3	95	18.10	
Week 4	37	7.05	
Weeks 1-4 Average	130.50	24.86	

¹ Confirmed cases are those confirmed through a laboratory test.

² Chester County Population = 524,989



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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 tables below.

7 Day Period	Positive PCR Tests Count	All PCR Tests Count	Percent PCR Positivity
Week 1 (most current)	269	6,763	3.98%
Week 2	142	5,209	2.73%
Week 3	100	4,297	2.33%
Week 4	40	3,683	1.09%
Total for All Weeks	551	19,952	2.76%

New Cases by Age

Age	#Past 7 Days	% Past 7 Days	Age	# Past 30 Days	% Past 30 Days	Age	# Cumulative	% Cumulative
0-9	29	11.4%	0-9	49	9.1%	0-9	1,441	4.2%
10-19	26	10.2%	10-19	55	10.3%	10-19	4,856	14.2%
20-29	53	20.9%	20-29	118	22.0%	20-29	6,459	18.8%
30-39	31	12.2%	30-39	72	13.4%	30-39	4,627	13.5%
40-49	36	14.2%	40-49	75	14.0%	40-49	4,465	13.0%
50-59	34	13.4%	50-59	76	14.2%	50-59	5,276	15.4%
60-69	22	8.7%	60-69	52	9.7%	60-69	3,511	10.2%
70-79	13	5.1%	70-79	21	3.9%	70-79	1,788	5.2%
80-89	3	1.2%	80-89	10	1.9%	80-89	1,171	3.4%
90-99	2	0.8%	90-99	3	0.6%	90-99	649	1.9%
Unknown	5	2.0%	Unknown	5	0.9%	100+	25	0.1%
Total	254	100.0%	Total	536	100.0%	Total	34,268	100.0%

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, this data are estimates.

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Age Group	# Partially Vax	# Fully Vax	# At Least 1 Vax ¹	Age Population	% Partially Vax	% Fully Vax	% At Least 1 Vax ¹
≥ 12 Years	37,190	290,355	339,434	450,738	8%	64%	75%
≥ 18 Years	34,287	281,910	328,086	407,023	8%	69%	81%
Total	37,190	290,355	339,434	524,989	7%	55%	65%

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
Age <10	0	0	0	59,767	0%	0%	0%
Age 10-14	2,903	8,445	11,348	36,210	8%	23%	31%
Age 15-19	3,818	19,173	22,991	37,079	10%	52%	62%
Age 20-24	2,630	15,760	18,390	32,756	8%	48%	56%
Age 25-34	4,837	33,318	38,155	60,414	8%	55%	63%
Age 35-44	4,927	41,565	46,492	65,560	8%	63%	71%
Age 45-54	4,884	46,140	51,024	70,439	7%	66%	72%
Age 55-59	2,619	26,069	28,688	39,292	7%	66%	73%
Age 60-64	2,654	26,141	28,795	36,118	7%	72%	80%
Age 65-74	4,479	42,379	46,858	50,678	9%	84%	92%
Age 75-84	2,211	22,467	24,678	25,346	9%	89%	97%
Age 85+	1,228	8,898	10,126	11,330	11%	79%	89%
Total	37,190	290,355	327,545	524,989	7%	55%	62%

¹ Partially or fully vaccinated. **DOES NOT** include individuals vaccinated in Philadelphia. Age data for those vaccinated in Philadelphia will be in a future report.

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 of COVID test results and deaths.

	Last 7 Days	Last 30 Days	Cumulative ¹
Positive Tests	254	536	34,268
Negative Tests	2,606	7,951	235,049
Deaths	-	1	820

¹ Since March 2020.



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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
Very High	≥100	≥10%	Significant limiting of a variety of activities to limit contact between individuals and preserve essential community activities and services