



Chester County COVID-19 Monitoring Report

Most Current 7 Days: 08/27/2021–09/02/2021

Published: 09/03/2021

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 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)	569	108.38	Local Incidence Rates
Week 2	533	101.53	
Week 3	432	82.29	
Week 4	366	69.72	
Weeks 1-4 Average	475.00	90.48	

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)	638	9,716	6.57%
Week 2	605	9,970	6.07%
Week 3	469	8,966	5.23%
Week 4	384	8,305	4.62%
Total for All Weeks	2,096	36,957	5.67%

New Cases by Age

AGE	#Past 7 Days	% Past 7 Days	AGE	#Past 30 Days	% Past 30 Days	AGE	# Cumulative	% Cumulative
0-9	68	11.95%	0-9	231	11.50%	0-9	1,656	4.58%
10-19	62	10.90%	10-19	256	12.75%	10-19	5,109	14.12%
20-29	78	13.71%	20-29	302	15.04%	20-29	6,746	18.64%
30-39	95	16.70%	30-39	320	15.94%	30-39	4,934	13.63%
40-49	81	14.24%	40-49	287	14.29%	40-49	4,745	13.11%
50-59	86	15.11%	50-59	271	13.50%	50-59	5,535	15.29%
60-69	54	9.49%	60-69	192	9.56%	60-69	3,694	10.21%
70-79	28	4.92%	70-79	91	4.53%	70-79	1,875	5.18%
80-89	10	1.76%	80-89	41	2.04%	80-89	1,210	3.34%
90-99	6	1.05%	90-99	14	0.70%	90-99	663	1.83%
100-109	1	0.18%	100-109	3	0.15%	100+	22	0.06%
Total	569	100.00%	Total	2,008	100.00%	Unknown	1	0.00%
						Total	36,190	100.00%

Cases 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:

<https://www.health.pa.gov/topics/disease/coronavirus/Pages/Cases.aspx/>.



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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, this 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
Age <10	0	0	0	59,767	0%	0%	0%
Age 10-14	2,880	9,882	12,762	36,210	8%	27%	35%
Age 15-19	3,935	20,788	25,226	37,079	11%	56%	68%
Age 20-24	2,843	16,636	20,379	32,756	9%	51%	62%
Age 25-34	5,304	34,715	42,140	60,414	9%	57%	70%
Age 35-44	5,237	42,971	50,710	65,560	8%	66%	77%
Age 45-54	5,056	47,548	54,923	70,439	7%	68%	78%
Age 55-59	2,674	26,778	30,489	39,292	7%	68%	78%
Age 60-64	2,662	26,741	30,179	36,118	7%	74%	84%
Age 65-74	4,665	42,992	48,779	50,678	9%	85%	96%
Age 75-84	2,327	22,888	25,693	25,346	9%	90%	101%
Age 85+	1,271	9,086	10,490	11,330	11%	80%	93%
Total	38,854	301,025	351,768	524,989	7%	57%	67%

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
≥ 12 Years	38,854	301,025	351,768	450,738	9%	67%	78%
≥ 18 Years	35,974	291,143	339,006	407,023	9%	72%	83%
Total	38,854	301,025	351,768	524,989	7%	57%	67%

¹ Partially or fully vaccinated. Includes individuals vaccinated in Philadelphia.

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	569	2,008	36,190
Negative Tests	2,840	12,693	246,759
Deaths	-	3	831

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