



Chester County COVID-19 Monitoring Report

Most Current 7 Days: 10/22/2021–10/28/2021

Published: 10/29/2021

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:

[Community Transmission Level](#)

[Case Counts by ZIP Code](#)

[Incidence Rate](#)

[Vaccination Levels](#)

[Percent Positivity](#)

[Test Results and Deaths](#)

[New Cases by Age](#)

[Additional Information on County Transmission Level](#)

[Case Counts for Ages 0-18 Years](#)

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. 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	440	83.81	Local Incidence Rates
Week 2	560	106.67	
Week 3	632	120.38	
Week 4	700	133.34	
Weeks 1-4 Average	583.00	111.05	

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)	503	8,855	5.68%
Week 2	625	10,198	6.13%
Week 3	698	11,137	6.27%
Week 4	779	12,236	6.37%
Total for All Weeks	2,605	42,426	6.14%

New Cases by Age

AGE	#Past 7 Days	% Past 7 Days	AGE	#Past 30 Days	% Past 30 Days	AGE	# Cumulative	% Cumulative
0-9	57	12.95%	0-9	346	13.66%	0-9	2,301	5.61%
10-19	56	12.73%	10-19	341	13.46%	10-19	5,851	14.26%
20-29	51	11.59%	20-29	301	11.88%	20-29	7,394	18.02%
30-39	67	15.23%	30-39	354	13.98%	30-39	5,633	13.73%
40-49	61	13.86%	40-49	366	14.45%	40-49	5,373	13.09%
50-59	60	13.64%	50-59	327	12.91%	50-59	6,146	14.98%
60-69	44	10.00%	60-69	263	10.38%	60-69	4,171	10.16%
70-79	24	5.45%	70-79	139	5.49%	70-79	2,115	5.15%
80-89	15	3.41%	80-89	70	2.76%	80-89	1,327	3.23%
90-99	2	0.45%	90-99	21	0.83%	90-99	702	1.71%
100-109	1	0.23%	100-109	2	0.08%	100+	24	0.06%
Unknown	2	0.45%	Unknown	3	0.12%	Unknown	3	0.01%
Total	440	100.00%	Total	2,533	100.00%	Total	41,040	100.00%



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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](#)

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
Age <10	0	0	0	59,767	0%	0%	0%
Age 10-14	2,002	11,146	13,148	36,210	6%	31%	36%
Age 15-19	3,206	22,561	26,270	37,079	9%	61%	71%
Age 20-24	2,641	17,986	21,527	32,756	8%	55%	66%
Age 25-34	5,114	37,423	44,658	60,414	8%	62%	74%
Age 35-44	5,186	45,322	53,010	65,560	8%	69%	81%
Age 45-54	4,844	49,558	56,721	70,439	7%	70%	81%
Age 55-59	2,558	27,784	31,379	39,292	7%	71%	80%
Age 60-64	2,774	27,679	31,229	36,118	8%	77%	86%
Age 65-74	5,816	44,476	51,414	50,678	11%	88%	101%
Age 75-84	3,035	23,849	27,362	25,346	12%	94%	108%
Age 85+	1,621	9,512	11,266	11,330	14%	84%	99%
Total	38,797	317,296	367,982	524,989	7%	60%	70%

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

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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	38,797	317,296	367,982	450,738	9%	70%	82%
≥ 18 Years	36,795	306,150	354,834	407,023	9%	75%	87%
Total	38,797	317,296	367,982	524,989	7%	60%	70%

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	440	2,533	41,040
Negative Tests	2,403	13,672	272,039
Deaths	2	14	865

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