



Butler County General Health District's 79th COVID-19 Update (8/28/2021)

Confirmed and Probable COVID-19 Cases Reported to Butler County*

Butler County Residents, 2020-21

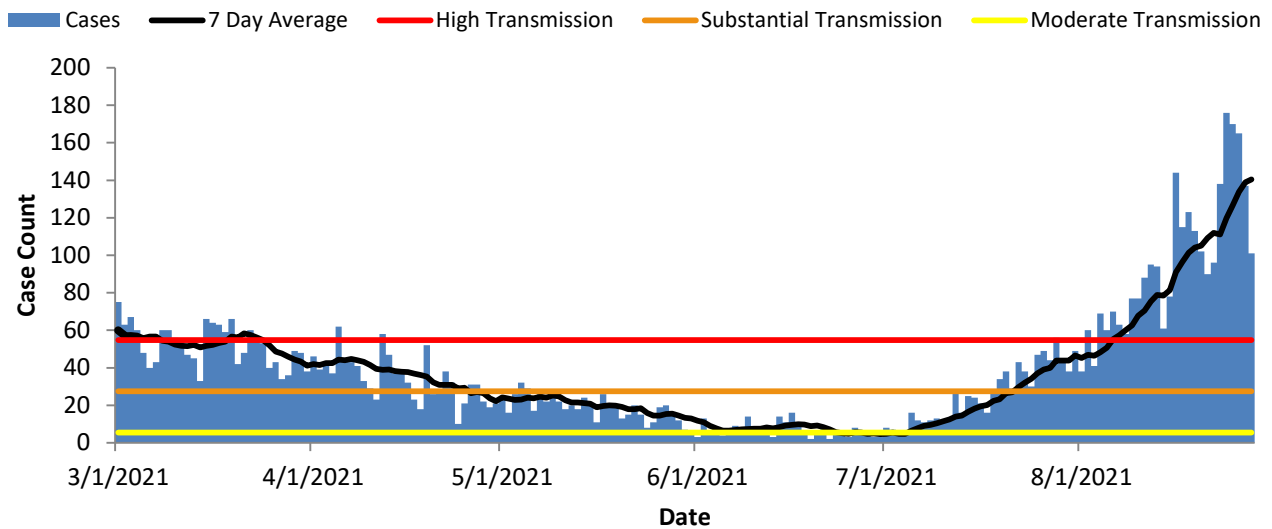
Total # of Cases (8/28):	43,435*
ODH verified Deaths (8/28):	635**
Hospitalizations (8/28):	1,916
First Case Reported:	3/11/2020
Last Case Reported (so far):	8/28/2021
Confirmed Cases:	38,059
Probable Cases:	5,376
Age Range:	<1-103
Median Age:	39
Mean Age:	40.4
Incidence (thru 8/28):	11,336.8 per 100,000
Prevalence (thru 8/28):	11.3% of BC population
14-Day Positivity Rate (8/31):	10.9[#]% of tests performed in BC

Table 1: CDC Indicators		
Indicator	Butler County New Cases over 7 days	Status Level According to CDC
Incidence per 100,000 population	256.6 per 100,000	High Spread (over 100 per 100,000)
Positivity Rate	10.9% of tests performed in Butler County	High Positivity (over 10.00% of tests)

This report has transitioned from using the target indicators that Governor DeWine and the Ohio Department of Health had previously set to the CDC's Community Transmission Indicators. The CDC has its own data tracker that is accessible at <https://covid.cdc.gov/covid-data-tracker/#datatracker-home>, which gives a good picture of how the nation as a whole is doing. They also have county tracking information, but as CDC mentions, local reports will be more up-to-date and should be considered more definitive.

Cases are rapidly rising in Butler County. Cases not only met the definition of a **community with high spread**, but continued to exceed it at a consistent rate. By the CDC's data tracker, Butler County met the definition of **high positivity**. Together these measures indicate that there is widespread transmission occurring in Butler County once again. Table 1 and Figure 1 compare Butler County with the new indicators. We are currently seeing case numbers that were around for Early February 2021 and Late October 2020.

Figure 1. Cases by Date of Event Since March 1, 2021



All figures show reported cases of COVID-19 in Butler County as of 1700 EDT 09/1/2021. Due to delays in reporting, the numbers of confirmed and probable cases on all figures are subject to change between reports and **confirmed and probable case counts are likely to increase**. *This should not be assumed to be the total disease burden of COVID-19 in Butler County only those that have been laboratory confirmed OR meet ODH probable case criteria AND reported to Public Health.

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Deaths are now reconciled to the Ohio Department of Health's available data to avoid discrepancies between the state and local numbers. ODH's protocol has changed to avoid reconciliation errors and now only includes those deaths that have been reconciled with Vital statistics and may not match what has been reported to the CDC which are provisional numbers. **This is a lagging indicator and will be multiple weeks behind.

Vaccination numbers were collected 1200 EDT 9/2/2021 from ODH COVID-19 Dashboard, Innovate Ohio Platform and the Ohio Hospital Associations Insight Analytic Tool. Vaccinations are considered started on the day an individual receives first dose of a COVID-19 vaccine. Vaccinations are considered completed on the day an individual receives the final recommended dose of a vaccine.

#Gathered from CDC's Data Tracker of Butler County 9/2/2021 0800 EDT accessible at <https://covid.cdc.gov/covid-data-tracker/#county-view>

Table 2: Total Reported* Cases by ZIP Code

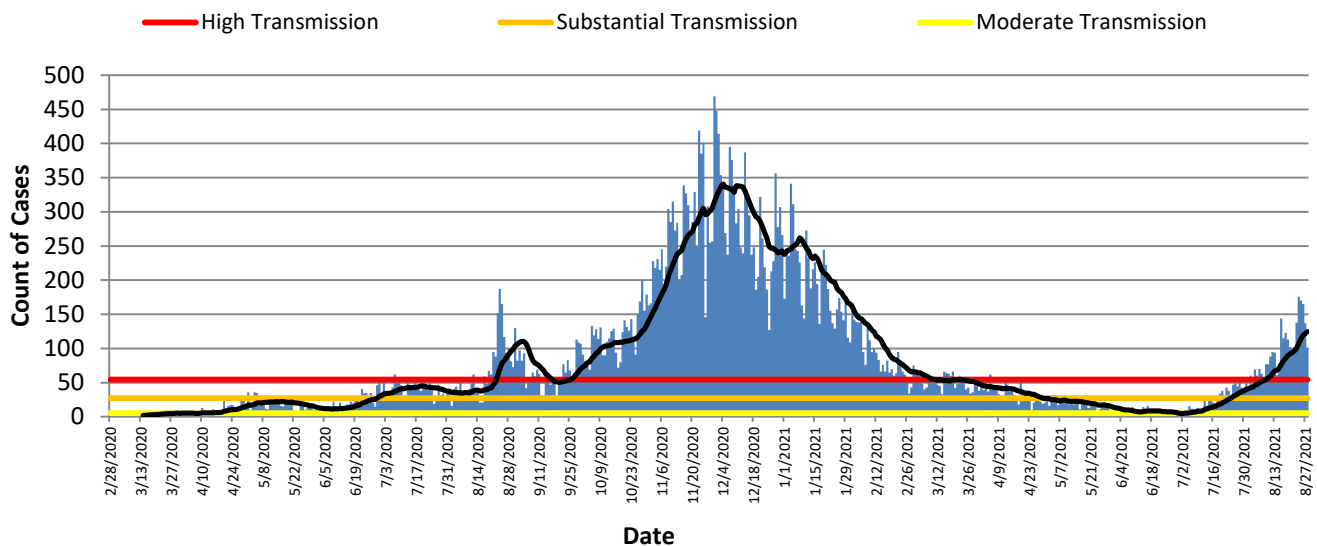
ZIP Code	Number of Cases	New Cases (8/22-8/28)	Change in cases from previous 7 days (8/15-8/21)	Transmission	% of Cases
45011	7418	148	42 (↑39.6%)	High	17.1%
45044	5911	150	-3 (↓2.0%)	High	13.6%
45013	5678	136	37 (↑37.4%)	High	13.1%
45069	5504	96	22 (↑29.7%)	High	12.7%
45014	5358	102	12 (↑13.3%)	High	12.3%
45056	3745	43	19 (↑79.2%)	High	8.6%
45042	2902	59	-6 (↓9.2%)	High	6.7%
45067	1743	75	26 (↑53.1%)	High	4.0%
45050	1341	55	37 (↑205.6%)	High	3.1%
45015	1142	41	12 (↑41.4%)	High	2.6%
45241	612	18	2 (↑12.5%)		1.4%
45053	357	9	6 (↑50.0%)	High	0.8%
45005	268	3	3 (0%)		0.6%
45064	161	7	5 (250%)		0.4%
45246	78	4	1 (33.3%)		0.2%
45062	66	1	-1 (-50%)		0.2%
Cases lacking zip code information or from zip codes with too few cases	1,151	36		-	2.6%
Butler County (inclusive)	43,435	983	218(↑28.5%)	High	100%

Zip-codes that have transmissions not rated have most of their populations outside of Butler County. Zip-codes with too few cases have been removed for privacy concerns.

New Cases are determined by "Date of Event" which is when the case was ill/test was collected. CDC determines new cases by "Date of Report".

Table 2 shows the zip-code level data that is new for this week. **All zip-codes** in Butler County now meet the conditions set to be declared a **community of high transmission**. Since individuals are rarely constrained by the relatively small borders of a zip-code in their day-to-day lives, these transmission indicators are for information only. For practical guidance, follow the county level indicators. Figure 2 shows the recent surge in cases and new indicator levels in context of the entire pandemic.

Figure 2. Reported Cases of COVID-19 by Date of Event 2020-2021*



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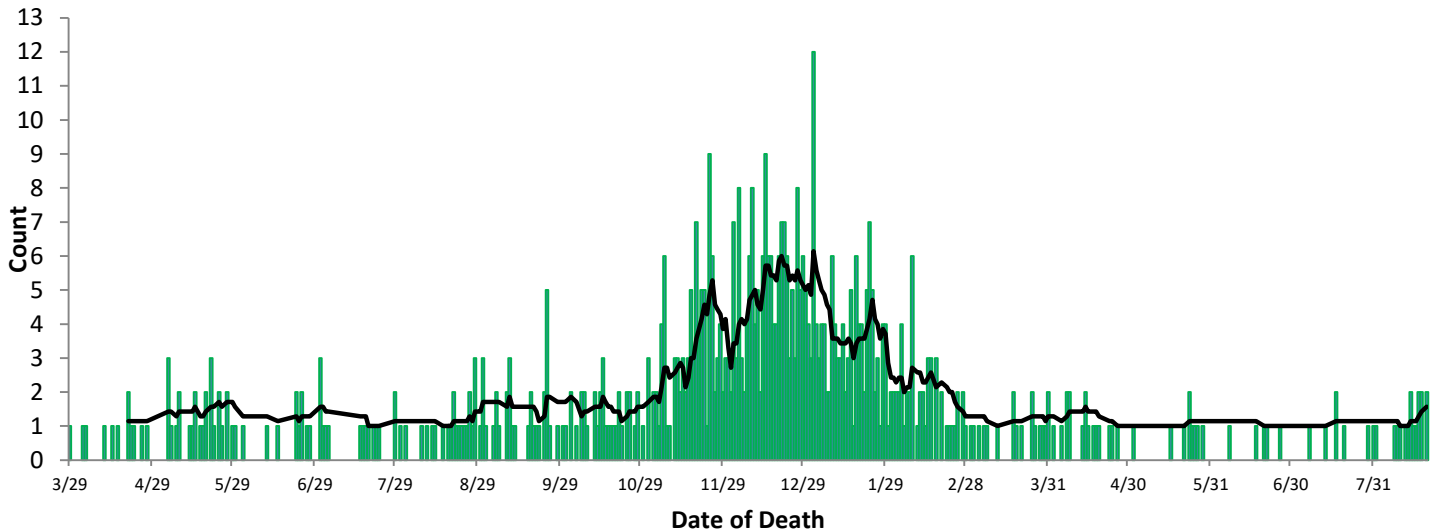
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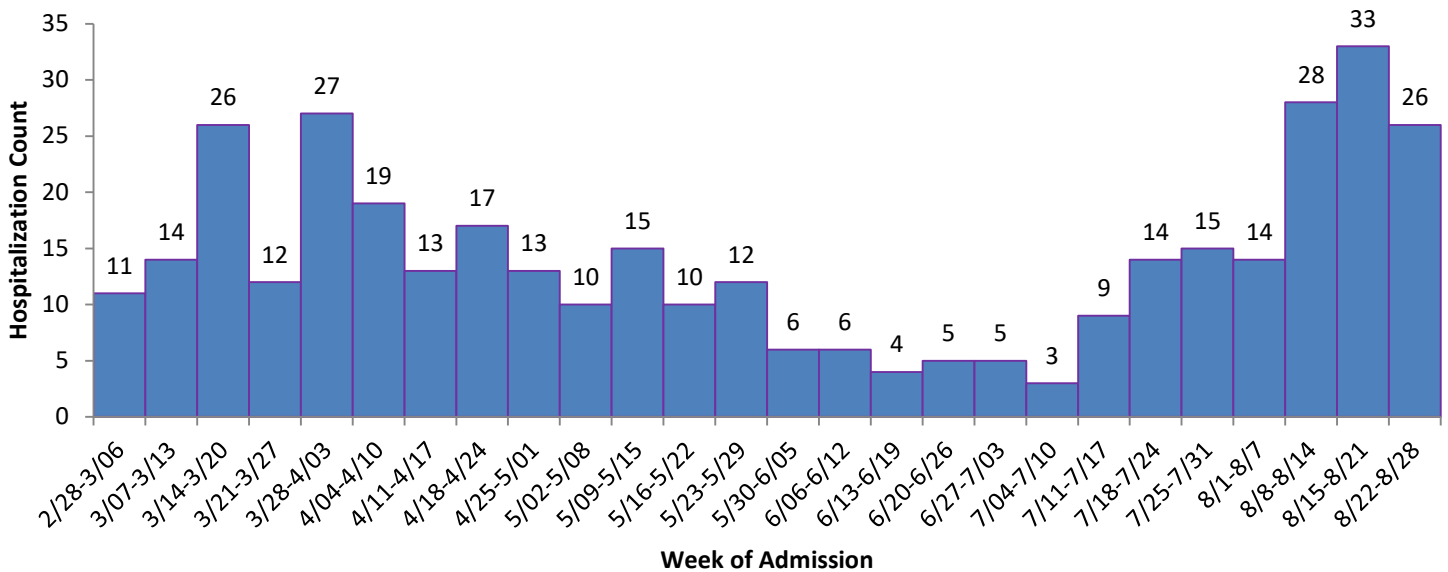
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Figure 3. Confirmed COVID-19 Deaths by date of death, 2020-21**



Figures 3 and 4 show severe case outcomes. These are both lagging indicators since it typically takes time for a case to succumb to COVID and well over a month for a COVID-19 death to be verified. Deaths remain stable, and we are hopeful that they remain so due to the high vaccination rate amongst at-risk aged populations (Table 3). As evidenced by the 7 day moving average, deaths are now beginning the climb. As for hospitalizations, Butler County residents are being subjected to hospitalization at high rates once again. Additionally, unvaccinated individuals are making up the majority of hospitalizations and are driving the age of hospitalizations down.

Figure 4. COVID-19 Hospitalizations of Butler County Residents by Week since the first week of March 2021



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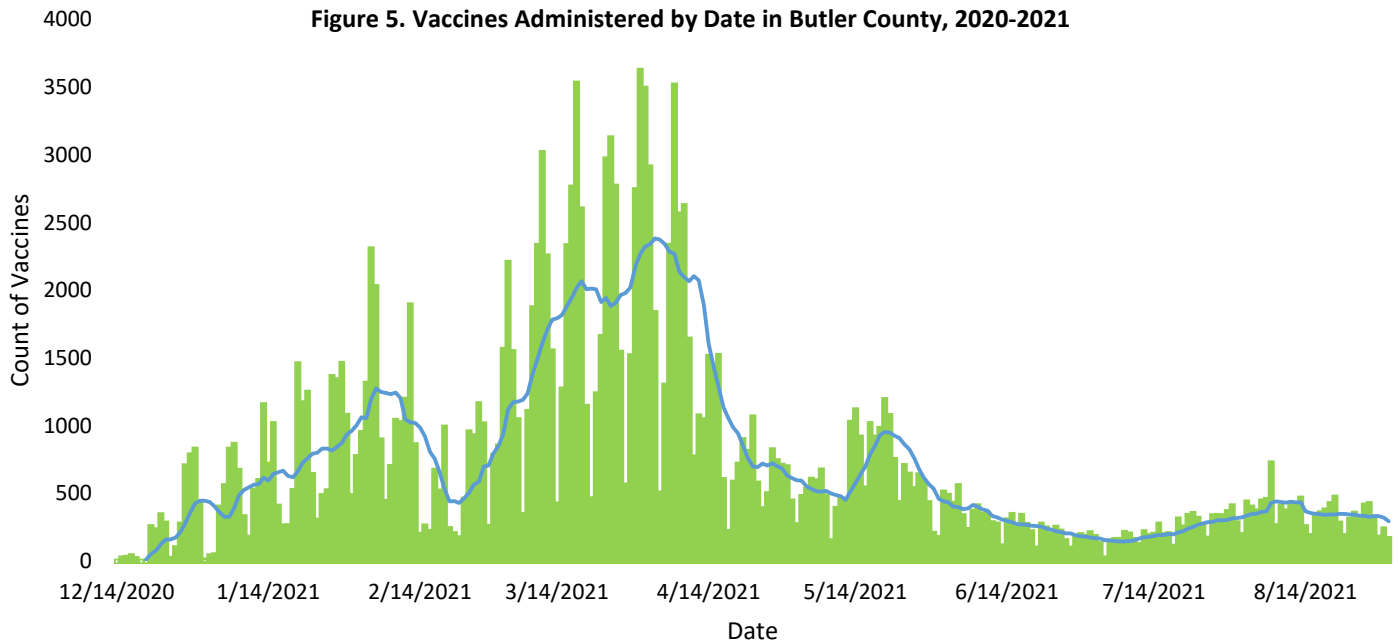
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Figure 5 shows vaccines started in Butler County by their date of administration. Table 3 shows the counts of new immunizations over the last two week period as well as total estimates by age group.



After an initial surge in vaccine demand seen in late winter and through the spring, demand dramatically dropped off. However, beginning in late July, coinciding with the oncoming school year and rise in cases associated with the Delta variant, there was a slight, but steady increase.

Table 3. Vaccination Statistics by Age Group and Recent Immunizations

Age Group (Years)	Estimated Count of Population # (%)	Count of People Vaccinated (%) as of 8/17/2021	Count of People Vaccinated (%) as of 8/31/2021	Count of People Vaccinated During the last two weeks	Percent Change from 8/17 to 8/31	Estimated Count of People Unvaccinated
12-14	15,069 (5%)	5,130 (34.0%)	5,483 (36.4%)	353	6.9%	9,586
15-17	15,838 (5%)	6,155 (38.9%)	6,496 (41.0%)	341	5.5%	9,342
18-20	20,735 (6%)	7,709 (37.2%)	8,052 (38.8%)	343	4.4%	12,683
21-24	23,864 (7%)	9,798 (41.1%)	10,175 (42.6%)	377	3.8%	13,689
25-34	48,008 (15%)	20,749 (43.2%)	21,672 (45.1%)	923	4.4%	26,336
35-44	45,659 (14%)	25,978 (56.9%)	26,865 (58.8%)	887	3.4%	18,794
45-54	46,344 (14%)	28,032 (60.5%)	28,784 (62.1%)	752	2.7%	17,560
55-64	48,369 (15%)	34,862 (72.1%)	35,389 (73.2%)	527	1.5%	12,980
65-74	36,132 (11%)	29,285 (81.1%)	29,491 (81.6%)	206	0.7%	6,641
75-84	17,318 (5%)	14,056 (81.2%)	14,128 (81.6%)	72	0.5%	3,190
85+	6,788 (2%)	5,646 (83.2%)	5,665 (83.5%)	19	0.3%	1,123

#Population estimates from the Ohio Hospital Association and are from December 2020.

Important and of note, the imminent return of the school year seems to be associated with a dramatic uptick in vaccine uptake among school age children. The 12-14 age group saw the largest increase at 6.9% over the last two weeks followed by the 15-17 year age group with 5.5%.

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Table 4. Cases Under Age of 17 by Zip –Code 07/01-8/28

Zip Code	Cases since July 1st	Percent of 12-17 Year olds with at least one dose	Cases per 100,000 since July 1
45011	128	57%	653.7
45069	95	74%	765.4
45044	108	57%	724.4
45014	84	65%	858.9
45013	76	55%	642.8
45050	43	65%	1623.3
45042	45	51%	933.4
45056	19	43%	634.8
45015	34	48%	1063.5
45241	13	-	
45067	53	44%	1283.3
45053	-^	54%	1349.1
45246	-^	-	

^Cases are below threshold to release. Population estimates from Ohio Hospital Association 2019

Table 4 shows cases that are ages 17 or younger by zip-code. The importance of this table is to demonstrate that though numbers remain small on an absolute level, relative to the population size it has actually been very high spread since the middle of summer. Were we to classify ages by zip-code in the same manner of the CDC’s definition, every zip-code in Butler County would be considered “high” transmission for school-age students. Within the recent weeks cases in this age have nearly doubled the amount of cases seen in July. It is true that children are less likely to develop severe illness, but they are not immune and they can spread it to others. **There have been pediatric hospitalizations of COVID-19 in Butler County.** Since the beginning of the pandemic, **pediatric hospitalizations of COVID-19 have nearly doubled the 5-year average of pediatric hospitalizations of influenza in Butler County.** That figure is not including children hospitalized with MIS-C associated with COVID-19, just those with acute COVID-19 infection.

The best ways to prevent your child from contracting COVID-19 and risking severe outcomes is to get your child vaccinated as soon as they are old enough, and to follow precautions such as wearing masks indoors- especially for those who are too young or cannot otherwise get the COVID-19 vaccination. Table 5 shows the vaccination rates among zip-codes by eligible populations.

Table 5. Percent of the Eligible Population Vaccinated by Zip Code

Zip Code	Vaccinated	Not Vaccinated Estimate	Vaccinated %
45056	11,269	15,158	43%
45067	5,646	7,311	44%
45064	1,262	1,621	44%
45015	4,729	5,110	48%
45042	11,411	11,099	51%
45053	1,525	1,282	54%
45013	25,099	20,230	55%
45011	36,204	27,808	57%
45044	25,422	18,965	57%
45050	5,938	3,256	65%
45014	25,121	13,742	65%
45069	33,280	11,635	74%

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