



Butler County General Health District's 87th COVID-19 Update (10/23/2021)

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

Butler County Residents, 2020-21

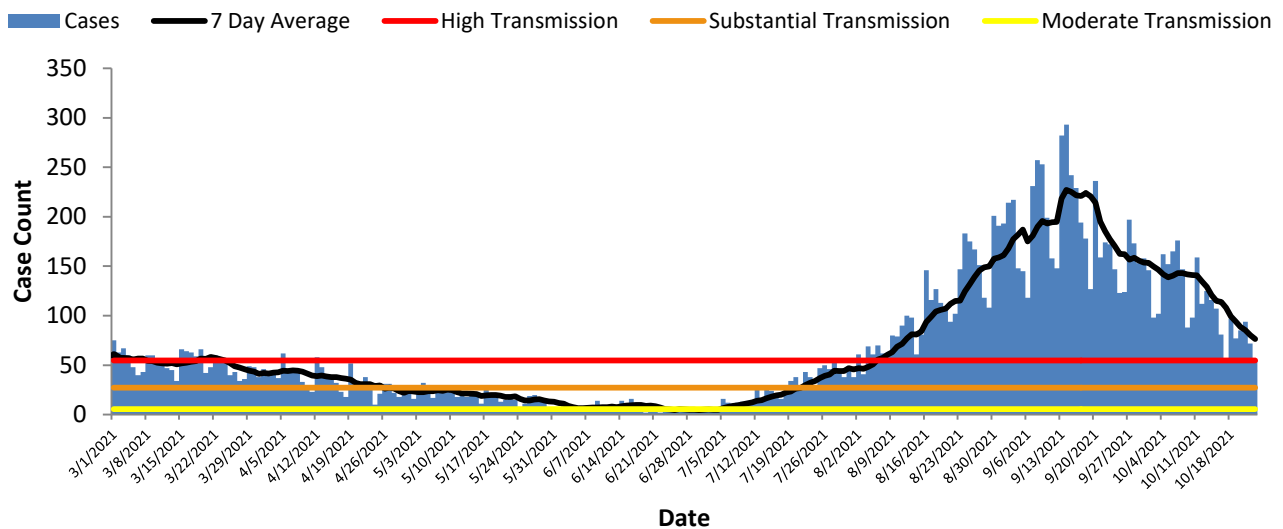
Total # of Cases (10/23):	52,264*
ODH verified Deaths (10/23):	724**
Hospitalizations (10/23):	2,237
First Case Reported:	3/11/2020
Last Case Reported (so far):	10/23/2021
Confirmed Cases:	44,055
Probable Cases:	8,209
Age Range:	<1-103
Median Age:	38
Mean Age:	39.4
Incidence (thru 10/23):	13,641.2 per 100,000
Prevalence (thru 10/23):	13.6% of BC population
7-Day Positivity Rate (10/28):	8.6%# 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	139.9 per 100,000	High Spread (over 100 per 100,000)
Positivity Rate	8.6% of tests performed in Butler County	Substantial Positivity (8.00-9.99% 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 continue their precipitous decline. Butler County's positivity rate also took a steep dive, and this puts the positivity rate at "substantial positivity" rather than high positivity. All indicators are moving downwards, but cases remain high. Even with the drop in cases Butler County remains a community of high spread.

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



All figures show reported cases of COVID-19 in Butler County as of 0800 EDT 10/28/2021. 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 10/28/2021 from ODH COVID-19 Dashboard and the Innovate Ohio Platform. 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.

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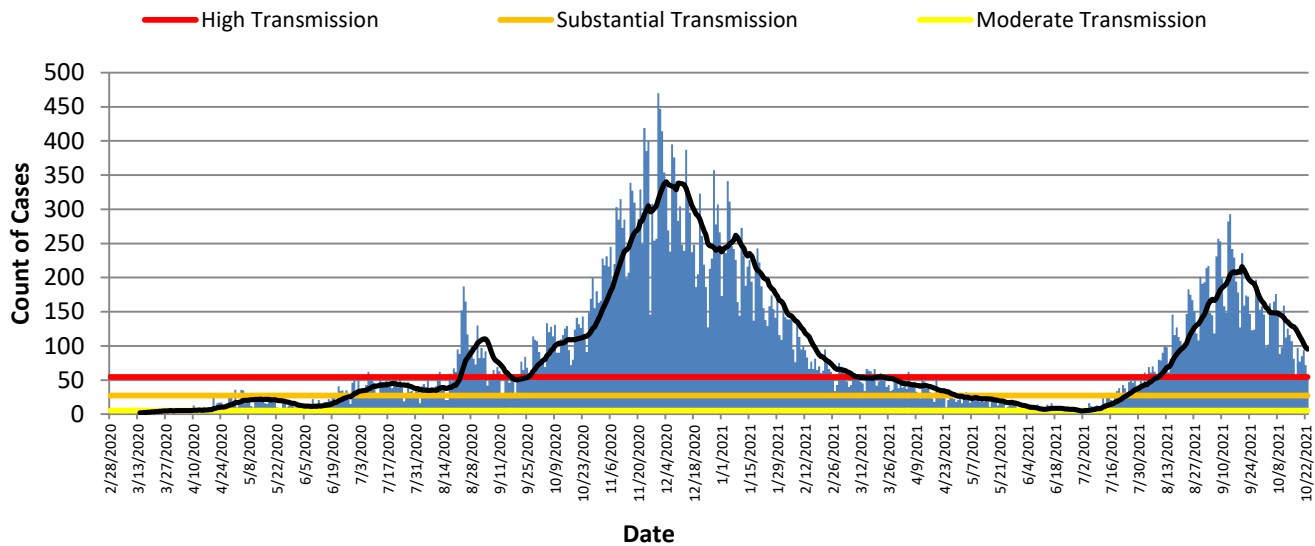
Table 2: Total Reported* Cases by ZIP Code						
ZIP Code	Number of Cases	New Cases (10/17-10/23)	Change in cases from previous 7 days (10/10-10/16)	Transmission	% of Cases	
45011	8990	87	-71 (-44.9%)	High	17.2%	
45044	7335	80	-76 (-48.7%)	High	14.0%	
45013	6886	75	5 (7.1%)	High	13.2%	
45069	6391	61	-10 (-14.1%)	High	12.2%	
45014	6387	65	-36 (-35.6%)	High	12.2%	
45056	4087	22	2 (10.0%)	Substantial	7.8%	
45042	3662	51	-28 (-35.4%)	High	7.0%	
45067	2248	36	-12 (-25.0%)	High	4.3%	
45050	1628	14	-11 (-44.0%)	High	3.1%	
45015	1445	18	-6 (-25.0%)	High	2.8%	
45241	717	8	-5(-38.5%)		1.4%	
45053	434	9	1(12.5%)	High	0.8%	
45005	314	0	-3(-100%)		0.6%	
45064	203	1	-5 (-83.3%)		0.4%	
45246	93	0	-2 (-100.0%)		0.2%	
45062	79	1	0(00%)		0.2%	
Cases lacking zip code information or from zip codes with too few cases	1,365	8			2.6%	
Butler County (inclusive)	52,264	536	-262 (-32.8%)	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. **Almost all zip-codes** in Butler County still meet the conditions set to be declared a **community of high transmission**. Cases are dropping in all but one zip-code. 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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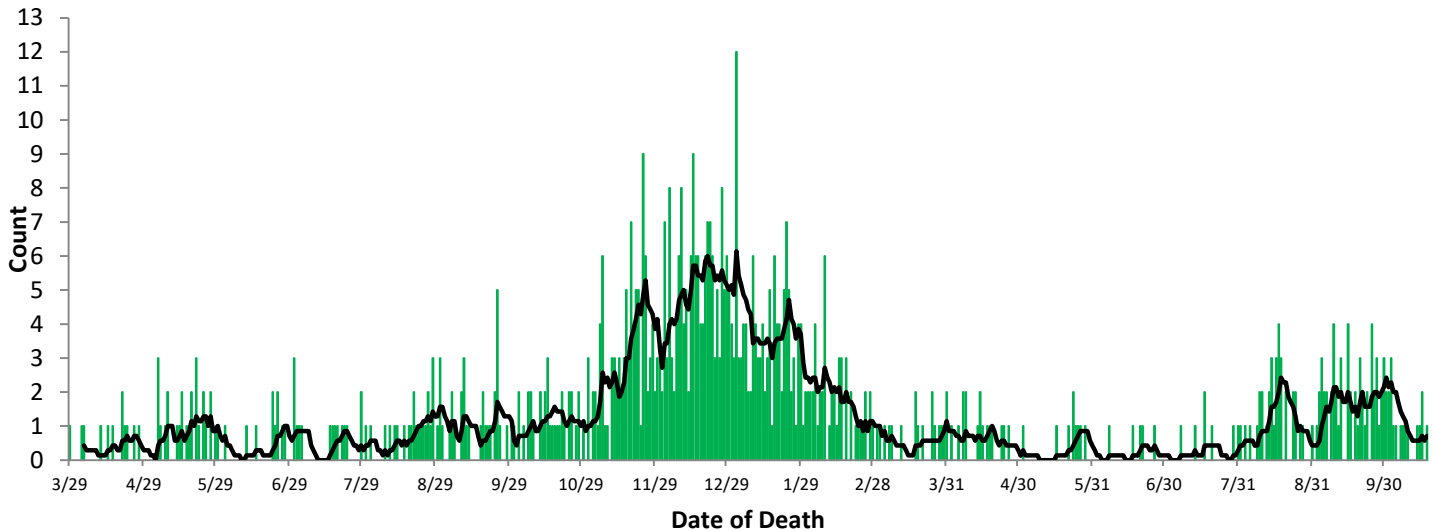
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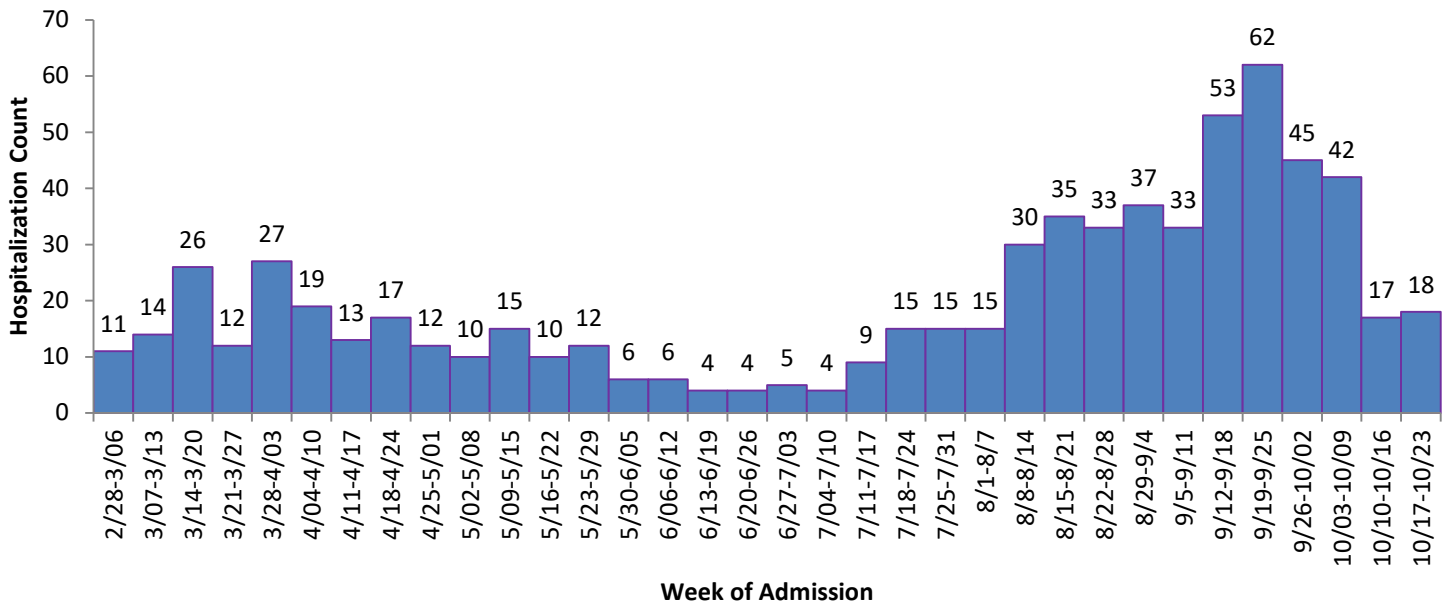
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Figure 3. Confirmed COVID-19 Deaths by date of death, 2020-21**



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. Both deaths and hospitals have declined. Even when accounting for the lag time that is expected these are good trends to be seeing. Reports of deaths typically peak approximately 4-6 weeks after the peak of a surge in cases, which is where the county is right now after the peak of the fourth wave.

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



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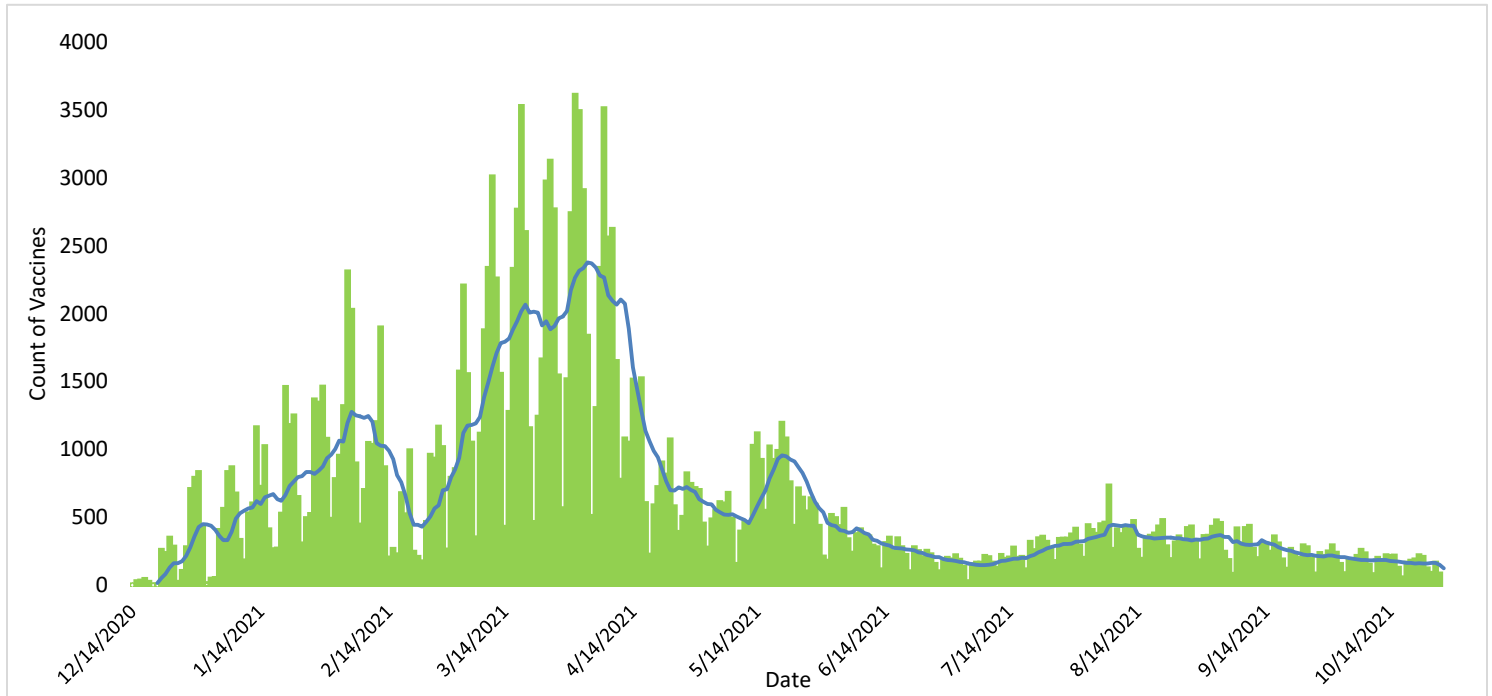
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Figure 5 shows vaccines started in Butler County by their date of administration. Table 3 shows the counts of new immunizations over the last two week period as well as total estimates by age group.

Figure 5. Vaccines Administered by Date in Butler County, 2020-2021



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 followed by gradual decline that has continued.

Table 3. Vaccination Statistics by Age Group and Recent Immunizations

Age Group (Years)	Estimated Count of Population # (%)	Count of People Vaccinated (%) as of 10/12/2021	Count of People Vaccinated (%) as of 10/26/2021	Count of People Vaccinated During the last two weeks	Percent Change from 10/12-10/26	Estimated Count of People Unvaccinated
12-14	15,069 (5%)	5,991 (39.8%)	6,030 (40.0%)	39	0.7%	9,039
15-17	15,838 (5%)	7,115 (44.9%)	7,177 (45.3%)	62	0.9%	8,661
18-20	20,735 (6%)	8,731 (42.1%)	8,959 (43.2%)	228	2.6%	11,776
21-24	23,864 (7%)	11,140 (46.7%)	11,418 (47.8%)	278	2.5%	12,446
25-34	48,008 (15%)	23,674 (49.3%)	24,113 (50.2%)	439	1.9%	23,895
35-44	45,659 (14%)	28,675 (62.8%)	29,089 (63.7%)	414	1.4%	16,570
45-54	46,344 (14%)	30,170 (65.1%)	30,459 (65.7%)	289	1.0%	15,885
55-64	48,369 (15%)	36,382 (75.2%)	36,607 (75.7%)	225	0.6%	11,762
65-74	36,132 (11%)	30,195 (83.6%)	30,407 (84.2%)	212	0.7%	5,725
75-84	17,318 (5%)	14,571 (84.1%)	14,718 (85.0%)	147	1.0%	2,600
85+	6,788 (2%)	5,844 (86.1%)	5,914 (87.1%)	70	1.2%	874

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

Does not include Booster doses

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Table 4. Cases Under Age of 17 by Zip –Code 08/01-10/23

Zip Code	Cases since August 1st	Cases per 100,000 past week
45011	555	117.5
45069	329	64.5
45044	486	147.6
45014	303	112.5
45013	338	110.0
45050	112	75.5
45042	224	248.9
45056	93	200.5
45015	117	187.7
45241	36	-
45067	166	169.5
45053	21	168.6
45246	11	-

^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 start of school. Were we to classify ages by zip-code in the same manner of the CDC’s definition, most Butler County would be considered “high” transmission for school-age students. 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 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 (at least one Dose)

Zip Code	% of the Total Population Vaccinated	% of the Eligible Population Vaccinated	% of 12-17 Year Old Vaccinated
45011	51%	61%	45%
45013	51%	59%	36%
45014	59%	69%	49%
45015	43%	52%	30%
45042	48%	55%	32%
45044	50%	62%	45%
45050	58%	69%	51%
45053	53%	59%	41%
45056	42%	44%	42%
45064	42%	48%	22%
45067	39%	48%	32%
45069	66%	78%	62%

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