



Butler County General Health District's 86th COVID-19 Update (10/16/2021)

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

Butler County Residents, 2020-21

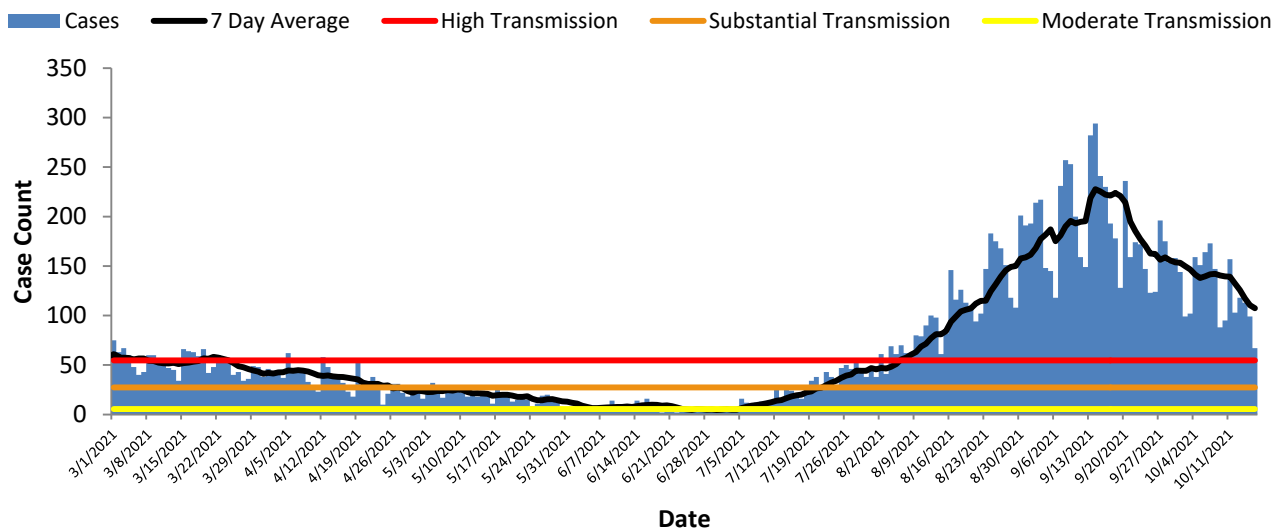
Total # of Cases (10/16):	51,681*
ODH verified Deaths (10/16):	711**
Hospitalizations (10/16):	2,212
First Case Reported:	3/11/2020
Last Case Reported (so far):	10/16/2021
Confirmed Cases:	43,688
Probable Cases:	7,993
Age Range:	<1-103
Median Age:	38
Mean Age:	39.4
Incidence (thru 10/16):	13,489.0 per 100,000
Prevalence (thru 10/16):	13.5% of BC population
7-Day Positivity Rate (10/21):	11.4[#]% 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	196.3 per 100,000	High Spread (over 100 per 100,000)
Positivity Rate	11.4% 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.

Preliminary information suggests that the fourth wave *may have* peaked in Butler County. It is important that we continue to be vigilant and understand that based on the amount of active cases in Butler County that we are still **a community of high transmission and high positivity**. The swing in testing volume seems to have resolved as predicted, and a lower positivity rate has resulted.

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 10/20/2021. 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 10/20/2021 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.

#Gathered from CDC's Data Tracker of Butler County 10/21/2021 0800 EDT accessible at <https://covid.cdc.gov/covid-data-tracker/#county-view>

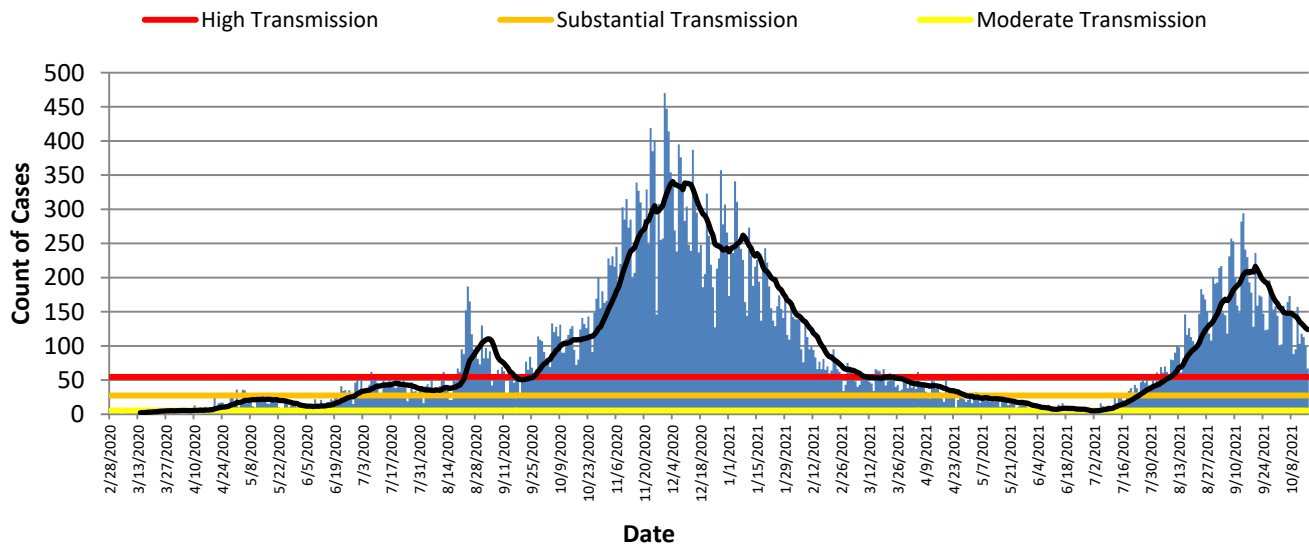
Table 2: Total Reported* Cases by ZIP Code						
ZIP Code	Number of Cases	New Cases (10/10-10/16)	Change in cases from previous 7 days (10/03-10/09)	Transmission	% of Cases	
45011	8896	153	-19 (-11.0%)	High	17.2%	
45044	7243	147	-34 (-18.8%)	High	14.0%	
45013	6801	65	-68 (-51.1%)	High	13.2%	
45069	6329	70	-20 (-22.2%)	High	12.2%	
45014	6319	96	-24 (-20.0%)	High	12.2%	
45056	4065	19	-14 (-42.4%)	Substantial	7.9%	
45042	3602	71	-31 (-30.4%)	High	7.0%	
45067	2208	44	1 (2.3%)	High	4.3%	
45050	1611	22	-13 (-37.1%)	High	3.1%	
45015	1428	23	4 (21.1%)	High	2.8%	
45241	705	10	-5(-33.3%)		1.4%	
45053	425	8	3(60%)	High	0.8%	
45005	315	3	-5(-62.5%)		0.6%	
45064	202	6	1 (20.0%)		0.4%	
45246	93	2	-2 (-50%)		0.2%	
45062	78	1	-1(-50%)		0.2%	
Cases lacking zip code information or from zip codes with too few cases	1,361	12		-	2.6%	
Butler County (inclusive)	50,776	906	-113 (-11.6%)	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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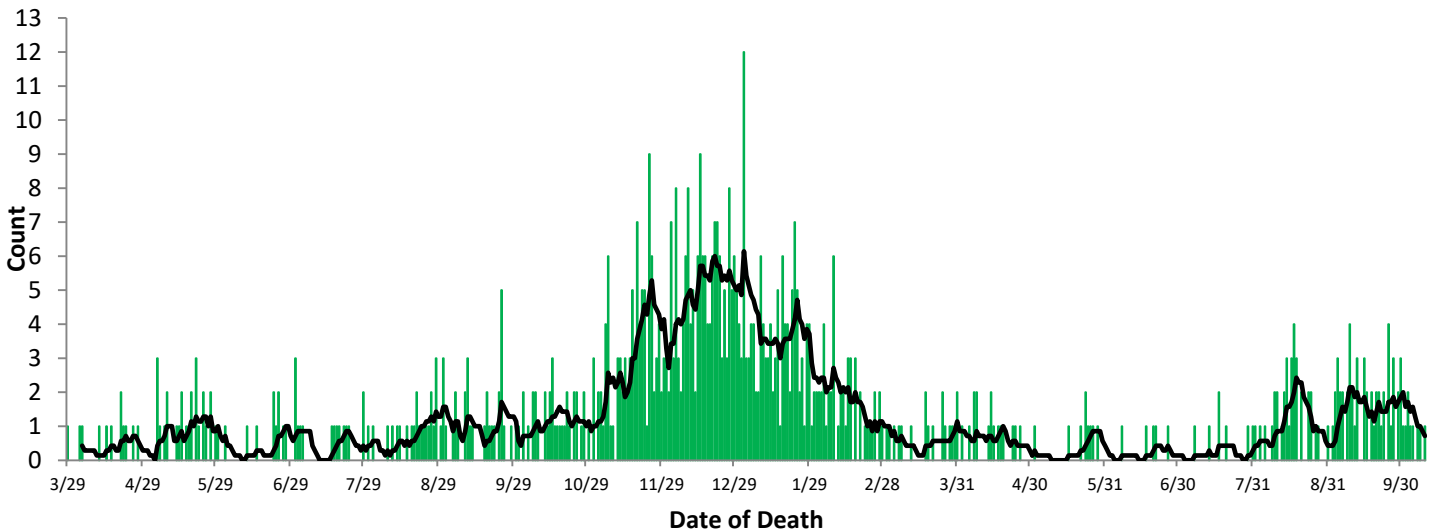
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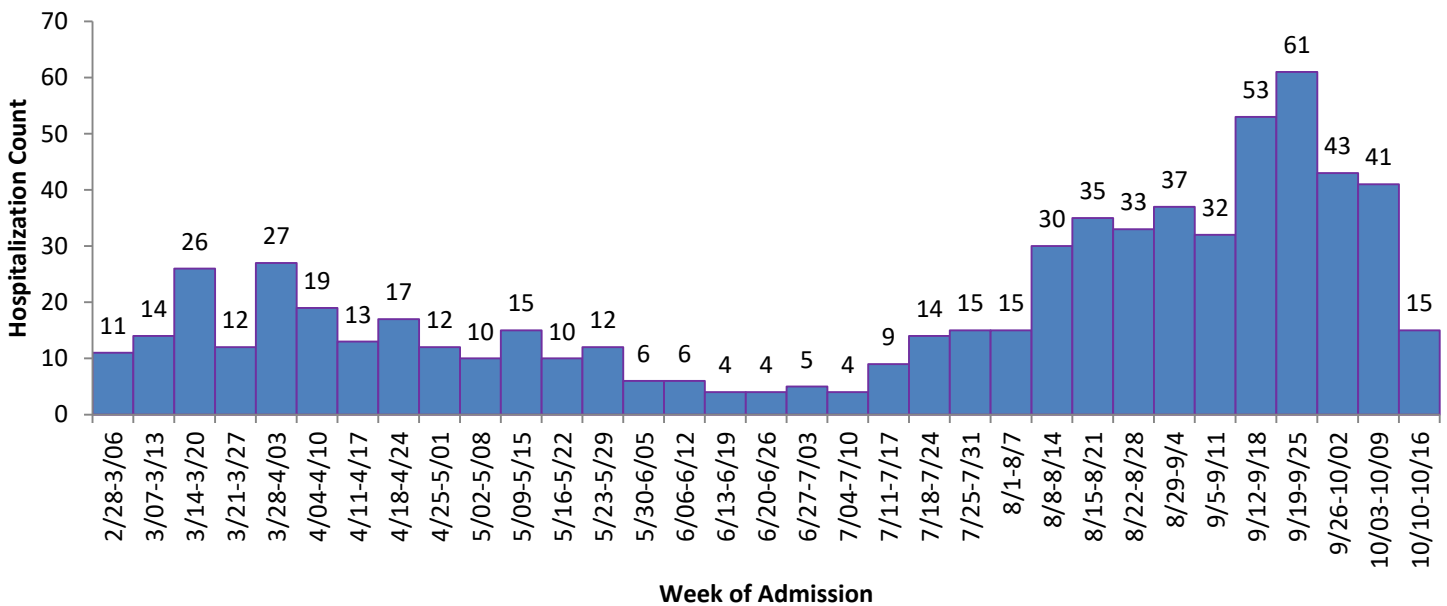
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Figure 3. Confirmed COVID-19 Deaths by date of death, 2020-21**



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. As evidenced by the 7 day moving average, deaths notably climbed. Typically deaths follow 3-4 weeks after surges and are recorded another 3-4 weeks later. 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. The decrease in hospitalized cases has continued.

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



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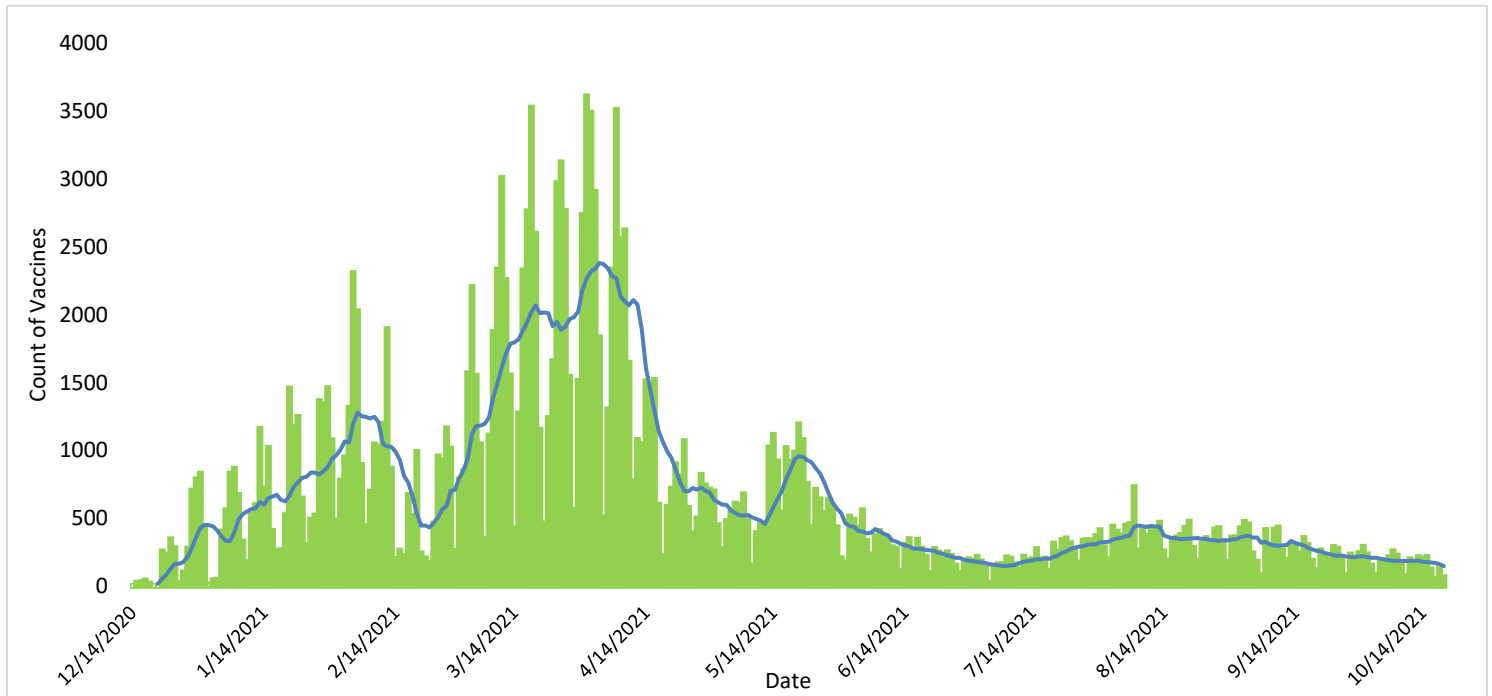
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Figure 5 shows vaccines started in Butler County by their date of administration. Table 3 shows the counts of new immunizations over the last two week period as well as total estimates by age group.

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.

Table 3. Vaccination Statistics by Age Group and Recent Immunizations						
Age Group (Years)	Estimated Count of Population # (%)	Count of People Vaccinated (%) as of 10/5/2021	Count of People Vaccinated (%) as of 10/19/2021	Count of People Vaccinated During the last two weeks	Percent Change from 10/5-10/19	Estimated Count of People Unvaccinated
12-14	15,069 (5%)	5,947 (39.5%)	6,029 (40.0%)	82	1.4%	9040
15-17	15,838 (5%)	7,069 (44.6%)	7,154 (45.2%)	85	1.2%	8684
18-20	20,735 (6%)	8,594 (41.4%)	8,867 (42.8%)	273	3.2%	11868
21-24	23,864 (7%)	11,011 (46.1%)	11,298 (47.3%)	287	2.6%	12566
25-34	48,008 (15%)	23,457 (48.9%)	23,923 (49.8%)	466	2.0%	24085
35-44	45,659 (14%)	28,485 (62.4%)	28,927 (63.4%)	442	1.6%	16732
45-54	46,344 (14%)	30,020 (64.8%)	30,327 (65.4%)	307	1.0%	16017
55-64	48,369 (15%)	36,282 (75.0%)	36,491 (75.4%)	209	0.6%	11878
65-74	36,132 (11%)	30,093 (83.3%)	30,312 (83.9%)	219	0.7%	5820
75-84	17,318 (5%)	14,494 (83.7%)	14,636 (84.5%)	142	1.0%	2682
85+	6,788 (2%)	5,821 (85.8%)	5,879 (86.6%)	58	1.0%	909

#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 08/01-10/16

Zip Code	Cases since August 1st	Cases per 100,000 past week
45011	531	260.4
45069	321	217.5
45044	462	322.0
45014	291	194.3
45013	323	84.6
45050	109	188.8
45042	212	269.7
45056	88	66.8
45015	110	31.3
45241	31	-
45067	158	169.5
45053	20	337.3
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	50%	60%	45%
45013	51%	59%	36%
45014	59%	69%	49%
45015	43%	52%	30%
45042	48%	54%	32%
45044	50%	61%	45%
45050	58%	69%	51%
45053	52%	59%	40%
45056	41%	44%	42%
45064	42%	47%	22%
45067	39%	47%	32%
45069	66%	77%	61%

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