



Butler County General Health District's 82nd COVID-19 Update (9/18/2021)

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

Butler County Residents, 2020-21

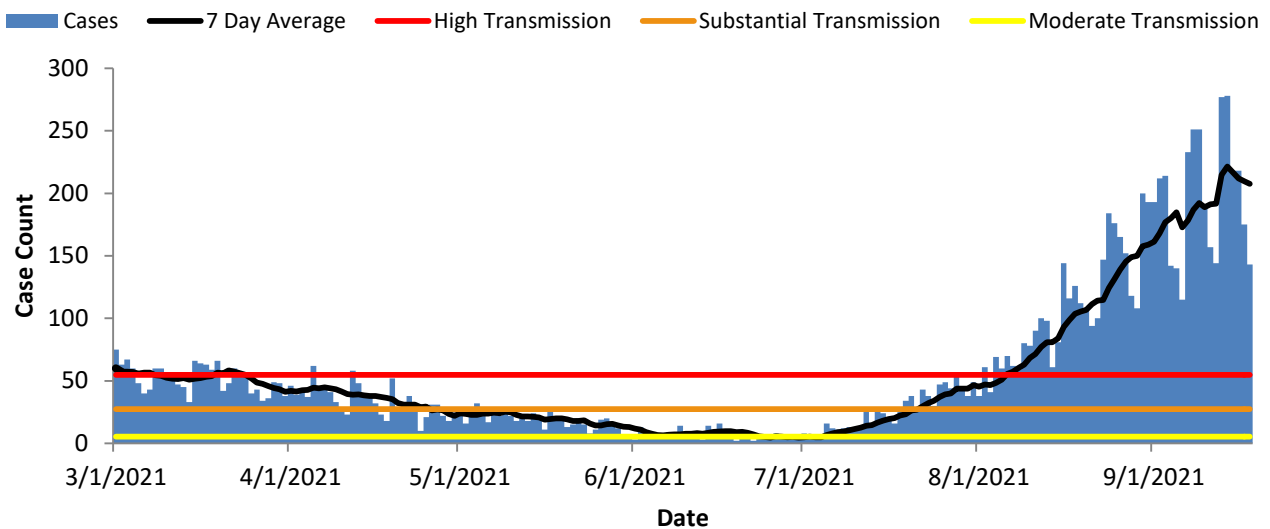
Total # of Cases (9/18):	47,584*
ODH verified Deaths (9/18):	655**
Hospitalizations (9/18):	2042
First Case Reported:	3/11/2020
Last Case Reported (so far):	9/11/2021
Confirmed Cases:	39,882
Probable Cases:	6,180
Age Range:	<1-103
Median Age:	38
Mean Age:	39.8
Incidence (thru 9/18):	12,419.7 per 100,000
Prevalence (thru 9/18):	12.4% of BC population
7-Day Positivity Rate (9/23):	13.1[#]% 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	379.2 per 100,000	High Spread (over 100 per 100,000)
Positivity Rate	13.1% 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 during the Fall surge.

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 09/23/2021. 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 9/22/2021 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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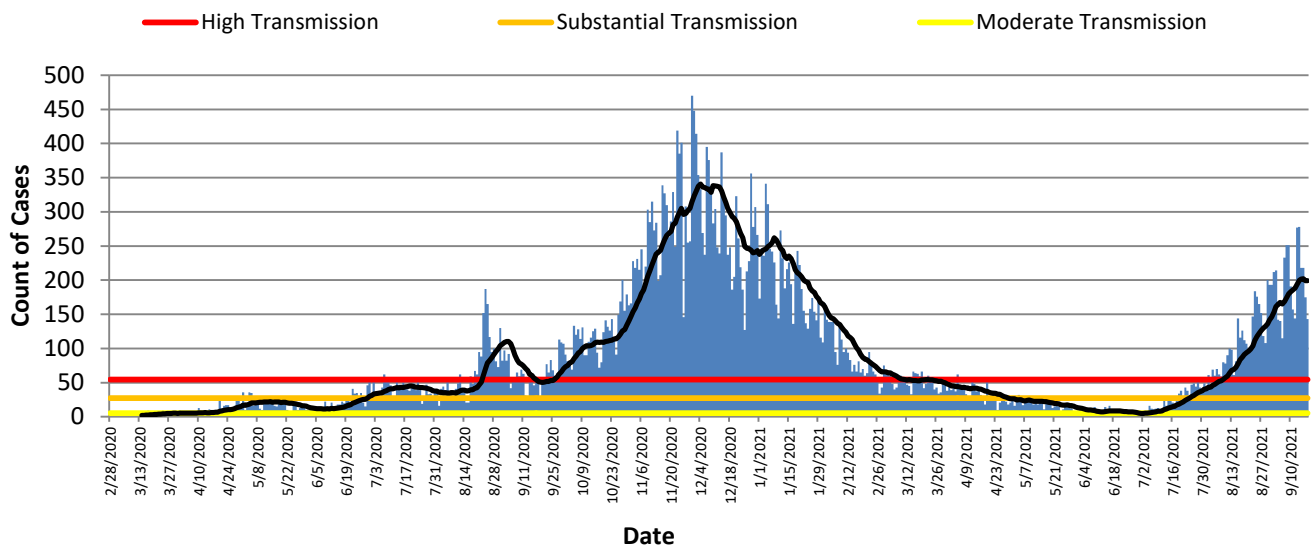
Table 2: Total Reported* Cases by ZIP Code						
ZIP Code	Number of Cases	New Cases (9/12-9/18)	Change in cases from previous 7 days (9/5-9/11)	Transmission	% of Cases	
45011	8174	256	11 (4.5%)	High	17.2%	
45044	6540	219	16 (7.9%)	High	13.7%	
45013	6264	249	86 (52.8%)	High	13.2%	
45069	5916	143	10 (7.5%)	High	12.4%	
45014	5794	131	-32 (-19.6%)	High	12.2%	
45056	3909	55	11 (25%)	High	8.2%	
45042	3247	112	-18 (-13.8%)	High	6.8%	
45067	1998	82	-2 (-2.4%)	High	4.2%	
45050	1478	44	-2 (-4.3%)	High	3.1%	
45015	1298	71	39 (121.9%)	High	2.7%	
45241	657	14	-2(-12.5%)		1.4%	
45053	390	17	11(183.3%)	High	0.8%	
45005	291	7	4 (133.3%)		0.6%	
45064	182	3	-2 (-40.0%)		0.4%	
45246	83	3	2 (200%)		0.2%	
45062	72	2	1(100%)		0.2%	
Cases lacking zip code information or from zip codes with too few cases	1,246	45	-	-	2.7%	
Butler County (inclusive)	47,584	1453	115(8.6%)	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. **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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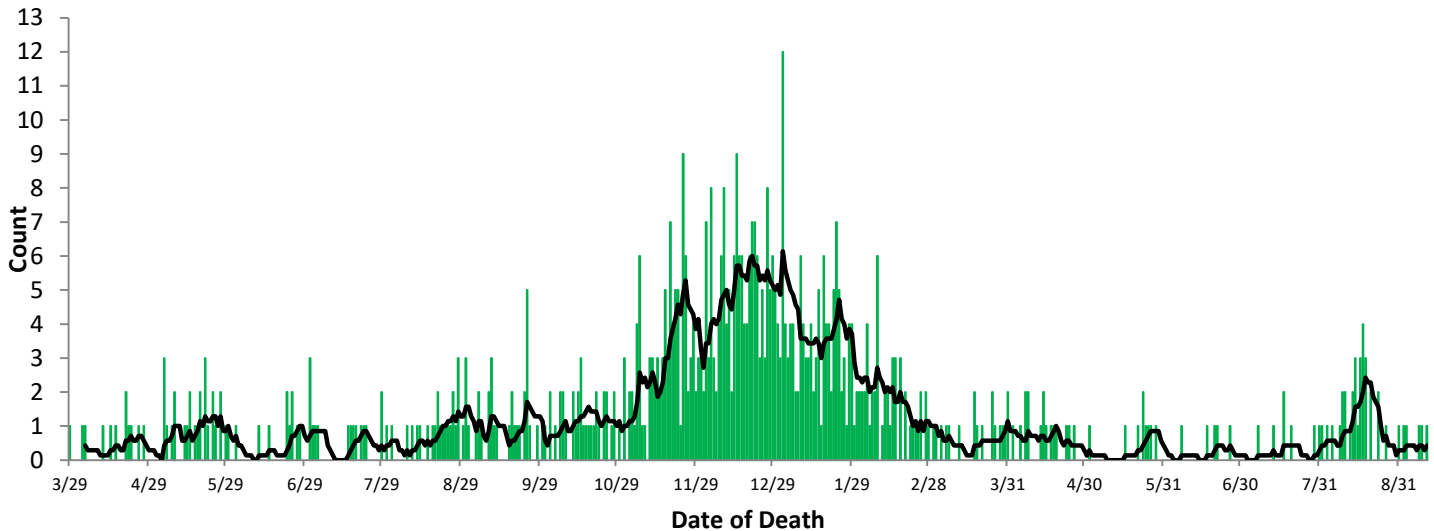
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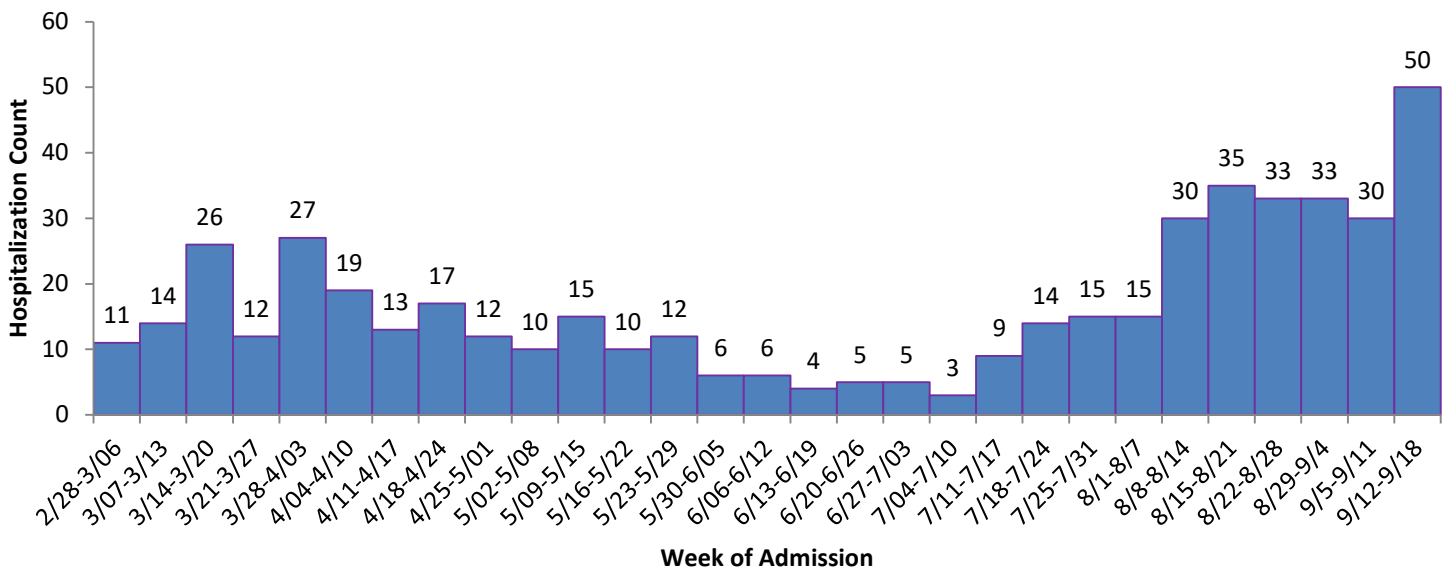
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Figure 3. Confirmed COVID-19 Deaths by date of death, 2020-21**



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. 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. Last week saw a 67% jump in hospitalizations compared to the previous week.

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



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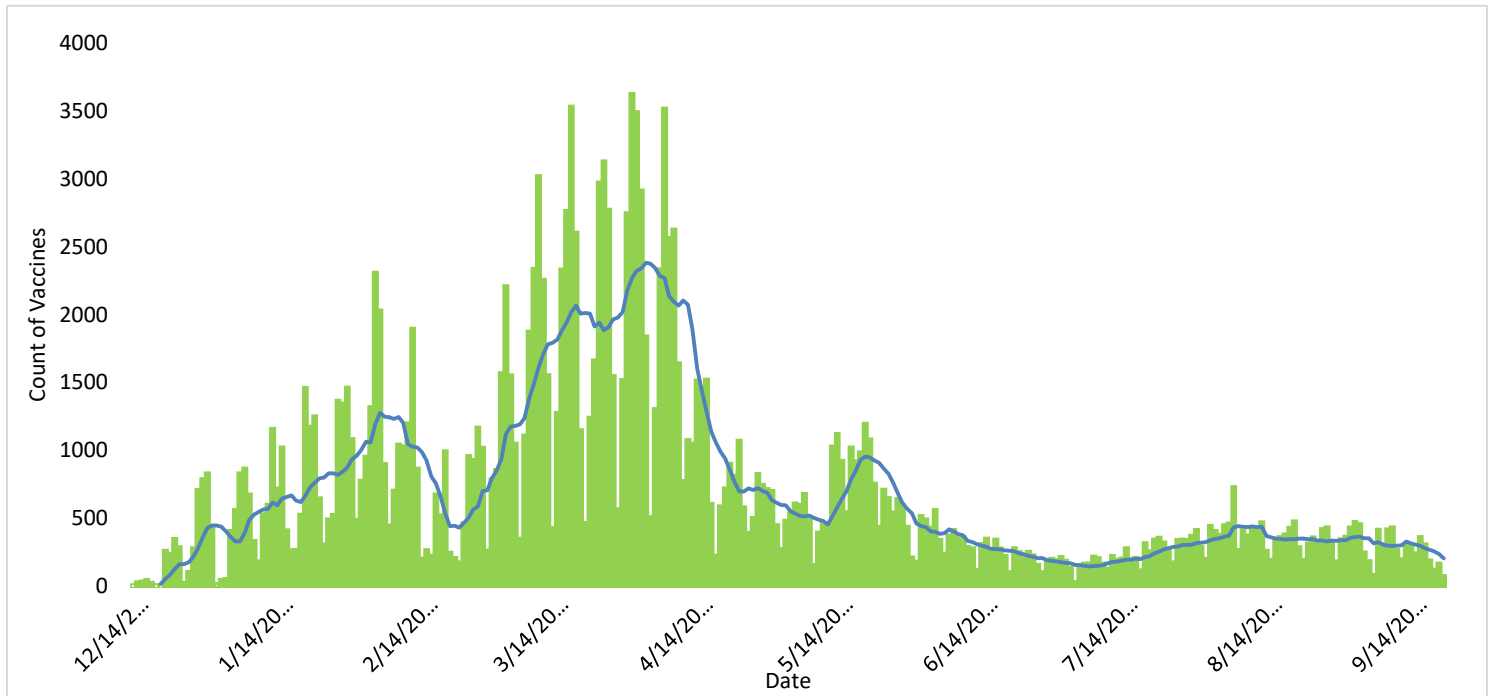
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Figure 5 shows vaccines started in Butler County by their date of administration. Table 3 shows the counts of new immunizations over the last two week period as well as total estimates by age group.

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.

Table 3. Vaccination Statistics by Age Group and Recent Immunizations

Age Group (Years)	Estimated Count of Population # (%)	Count of People Vaccinated (%) as of 9/7/2021	Count of People Vaccinated (%) as of 9/21/2021	Count of People Vaccinated During the last two weeks	Percent Change from 9/7-9/21	Estimated Count of People Unvaccinated
12-14	15,069 (5%)	5,662 (37.6%)	5,837 (38.7%)	175	3.1%	9,232
15-17	15,838 (5%)	6,686 (42.2%)	6,939 (43.8%)	253	3.8%	8,899
18-20	20,735 (6%)	8,233 (39.7%)	8,454 (40.8%)	221	2.7%	12,281
21-24	23,864 (7%)	10,347 (43.4%)	10,724 (44.9%)	377	3.6%	13,140
25-34	48,008 (15%)	22,122 (46.1%)	22,922 (47.7%)	800	3.6%	25,086
35-44	45,659 (14%)	27,266 (59.7%)	27,966 (61.2%)	700	2.6%	17,693
45-54	46,344 (14%)	29,097 (62.8%)	29,617 (63.9%)	520	1.8%	16,727
55-64	48,369 (15%)	35,589 (73.6%)	36,010 (74.4%)	421	1.2%	12,359
65-74	36,132 (11%)	29,619 (82.0%)	29,842 (82.6%)	223	0.8%	6,290
75-84	17,318 (5%)	14,180 (81.9%)	14,317 (82.7%)	137	1.0%	3,001
85+	6,788 (2%)	5,696 (83.9%)	5,757 (84.8%)	61	1.1%	1,031

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

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Table 4. Cases Under Age of 17 by Zip –Code 07/01-9/11

Zip Code	Cases since August 1st	Cases per 100,000 past week
45011	350	429.0
45069	189	290.0
45044	256	322.0
45014	169	255.6
45013	202	431.4
45050	78	453.0
45042	131	539.3
45056	56	233.9
45015	80	656.9
45241	25	-
45067	118	411.6
45053	14	505.9
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	11,464	14,963	43%
45067	5,881	7,076	45%
45064	1,313	1,570	46%
45015	4,943	4,896	50%
45042	11,822	10,688	53%
45053	1,602	1,205	57%
45013	26,039	19,290	57%
45011	37,462	26,550	59%
45044	26,267	18,120	59%
45050	6,103	3,091	66%
45014	25,943	12,920	67%
45069	34,027	10,888	76%

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