

Butler County General Health District's 75th COVID-19 Update (7/31/2021)

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

Butler County Residents, 2020-21

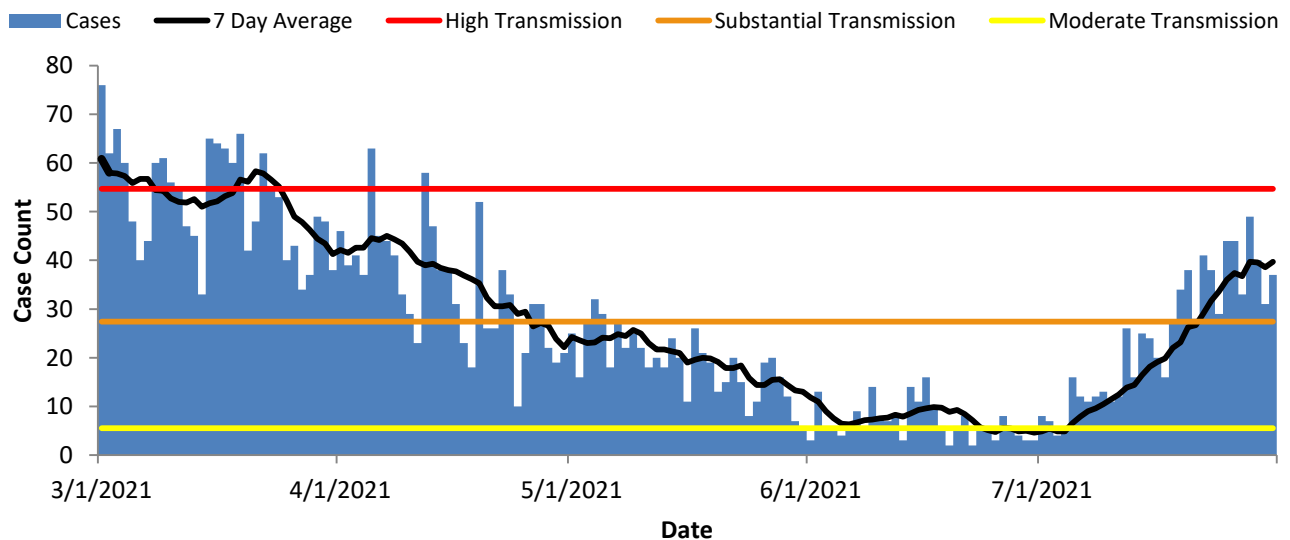
Total # of Cases (7/31):	40,675*
ODH verified Deaths (7/31):	615**
Hospitalizations (7/31):	1,810
ICU admissions (7/31):	160
First Case Reported:	3/11/2020
Last Case Reported (so far):	7/31/2021
Confirmed Cases:	36,054
Probable Cases:	4,621
Age Range:	<1-103
Median Age:	39
Mean Age:	40.7
Incidence (thru 7/31):	10,616.4 per 100,000
Prevalence (thru 7/31):	10.5% of BC population
14-Day Positivity Rate (7/27):	5.5% 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	72.6 per 100,000	Substantial Spread (50-99.9 per 100,000)
Positivity Rate	5.5% of tests performed in Butler County	Moderate Positivity (5.00%-7.99% of tests)

This report is transitioning 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 their 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 steadily rising in Butler County. Over the month of July, caseloads doubled over two week periods, and we have now met CDC's definition for a community with substantial transmission. The positivity rate in the county has also nearly doubled in a one week period. 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.

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



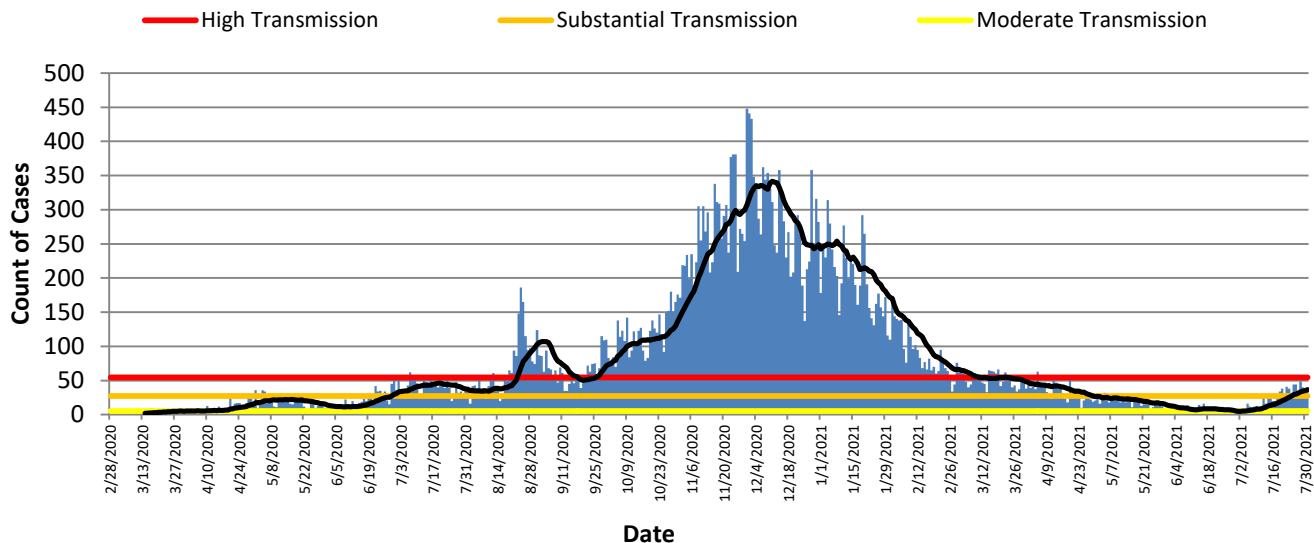
All figures show reported cases of COVID-19 in Butler County as of 1700 EDT 08/3/2021. Due to delays in reporting, the numbers of confirmed and probable cases on all figures are subject to change between reports and **confirmed and probable case counts are likely to increase**. *This should not be assumed 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.
 *Data is provisional – only confirmed or probable COVID-19 cases are included in counts. Report reflects time period since the introduction of SARS-CoV-2 into humans, measured in days. Data accessed from the Ohio Disease Reporting System (ODRS) on 08/3/2021 at 1700 EST.
 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 8/5/2021 from ODH COVID-19 Dashboard and 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.

Table 2: Total Reported* Cases by ZIP Code						
ZIP Code	Number of Cases	New Cases (7/25-7/31)	Change in cases from previous 7 days (7/18-7/24)	Transmission	% of Cases	
45011	6998	52	8 (↑18.2%)	Substantial	17.2%	
45044	5411	49	11 (↑28.9%)	Substantial	13.3%	
45013	5310	28	5 (↑21.7%)	Substantial	13.1%	
45069	5204	27	-4 (↓12.9%)	Substantial	12.8%	
45014	5063	45	15 (↑50%)	High	12.4%	
45056	3642	10	1 (↑11.1%)	Moderate	9.0%	
45042	2681	23	0 (↑0%)	Substantial	6.6%	
45067	1577	8	-2 (↓20%)	Moderate	3.9%	
45050	1240	12	-2 (↓14.3%)	High	3.0%	
45015	1043	8	2 (↑33.3%)	Substantial	2.6%	
45241	560	8	8 (NA%)		1.4%	
45053	338	1	-3(↓75%)	Moderate	0.8%	
45005	259	0	-1 (↓100%)		0.6%	
45064	152	0	0 (NA%)		0.4%	
45246	69	5	5 (NA%)		0.2%	
45062	59	1	1(NA%)			
Cases lacking zip code information or from zip codes with too few cases	1,069	1		-	2.7%	
Butler County (inclusive)	40,675	278	43(↑18.3%)	Substantial	100%	

Zip-codes not calculated have most of their population 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.**

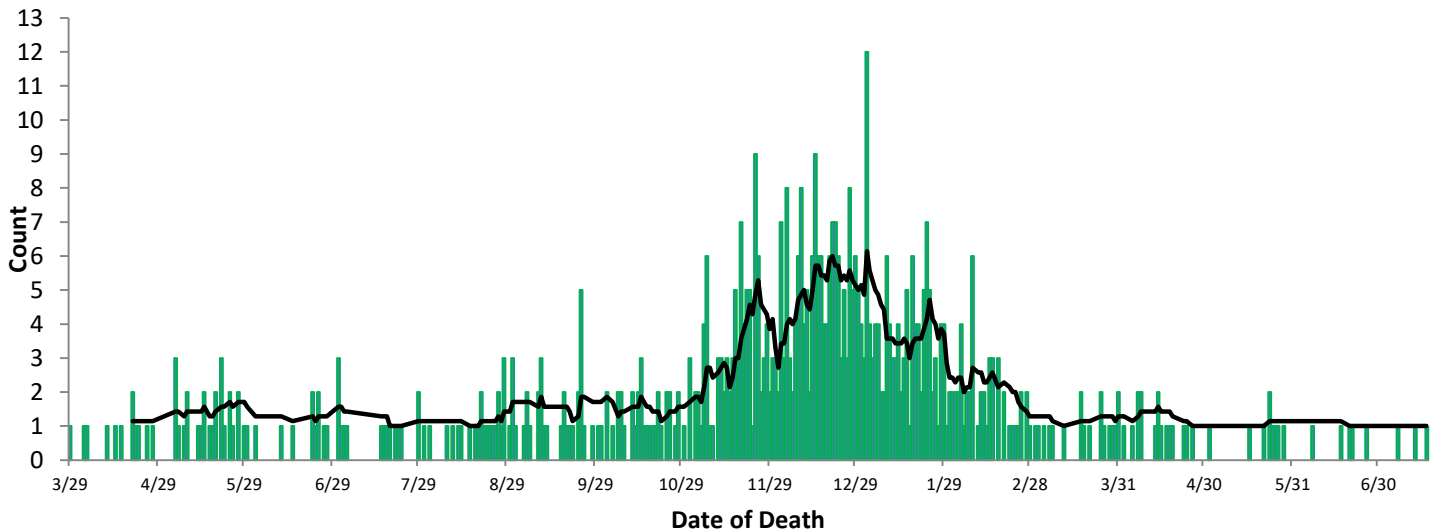
Table 2 shows the zip-code level data that is new from this week. There are two zip-codes that meet definition for high transmission. 45050 and 45014, this means that there were more than 100 cases per 100,000 people in these zip-codes. There are no zip-codes with less than moderate transmission in Butler County, and the majority have substantial 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*



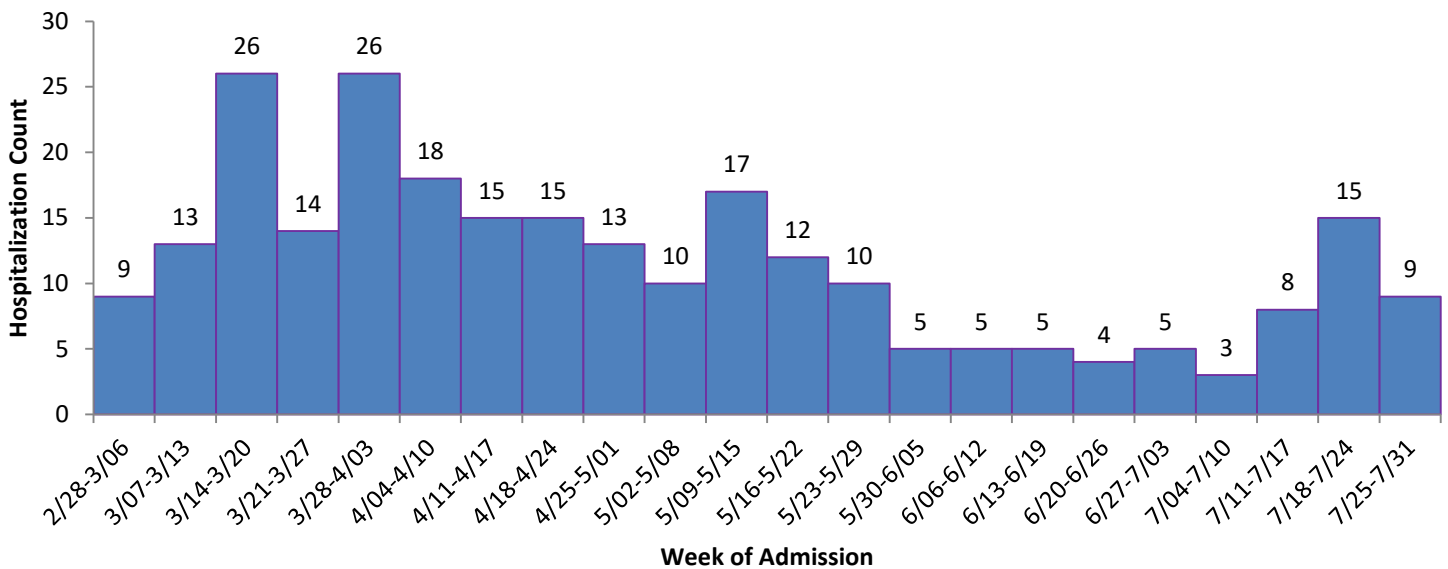
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Figure 3. Confirmed COVID-19 Deaths by date of death, 2020-21**



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 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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Figure 5. Vaccines Started in Butler County by date of vaccine.

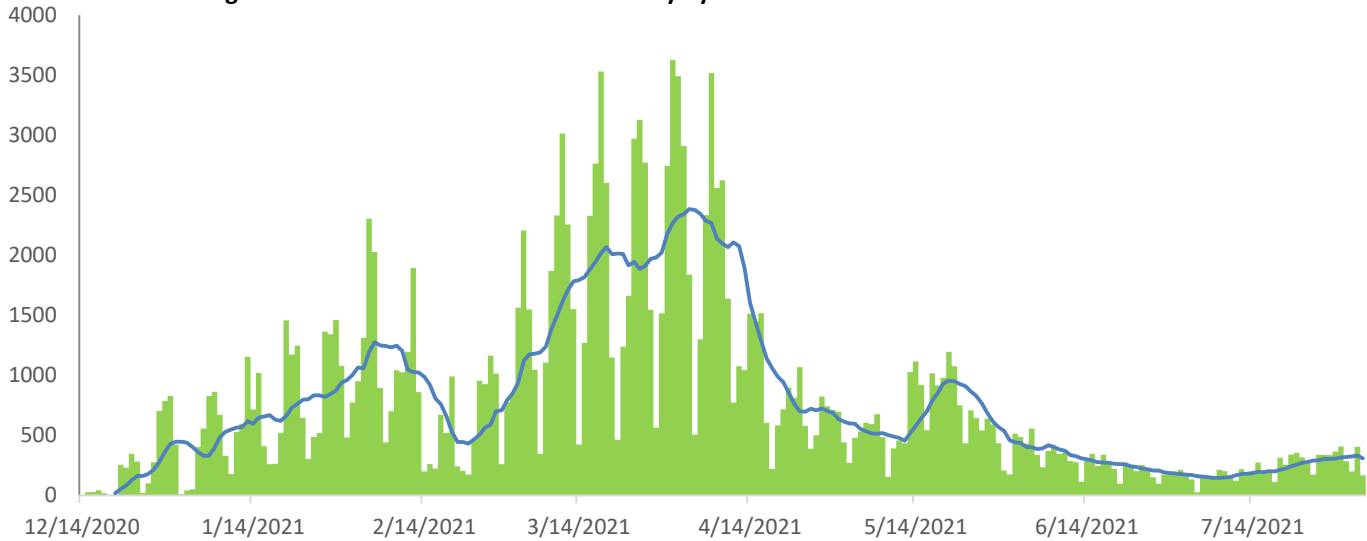


Figure 5 shows vaccines started in Butler County by their date of administration. Table 3 shows the counts of new immunizations over the last two week period as well as total estimates by age group.

Table 3. Vaccination Statistics by age group and recent immunizations

Age Group (Years)	Estimated Count of Population # (%)	Count of People Vaccinated (%) as of 7/20/2021	Count of People Vaccinated (%) as of 8/3/2021	Count of People Vaccinated During the last two weeks	Percent Change from 7/20 to 8/3	Estimated Count of People Unvaccinated
12-14	15,069 (5%)	4,017 (26.7%)	4,548 (30.2%)	531	13.2%	10,521
15-17	15,838 (5%)	5,186 (32.7%)	5,590 (35.3%)	404	7.8%	10,248
18-20	20,735 (6%)	7,041 (34.0%)	7,363 (35.5%)	322	4.5%	13,372
21-24	23,864 (7%)	9,083 (38.1%)	9,344 (39.2%)	261	2.9%	14,520
25-34	48,008 (15%)	19,237 (40.1%)	19,844 (41.3%)	607	3.1%	28,164
35-44	45,659 (14%)	24,305 (53.2%)	24,992 (54.7%)	687	2.8%	20,667
45-54	46,344 (14%)	26,416 (57.4%)	27,267 (58.8%)	851	3.2%	19,077
55-64	48,369 (15%)	33,744 (69.8%)	34,271 (70.6%)	527	1.6%	14,098
65-74	36,132 (11%)	28,661 (79.3%)	28,871 (79.9%)	210	0.7%	7,261
75-84	17,318 (5%)	13,742 (79.4%)	13,827 (79.8%)	85	0.6%	3,491
85+	6,788 (2%)	5,518 (81.3%)	5,545 (81.7%)	27	0.4%	1,243

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

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