

Butler County General Health District's 76th COVID-19 Update (8/7/2021)

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

Butler County Residents, 2020-21

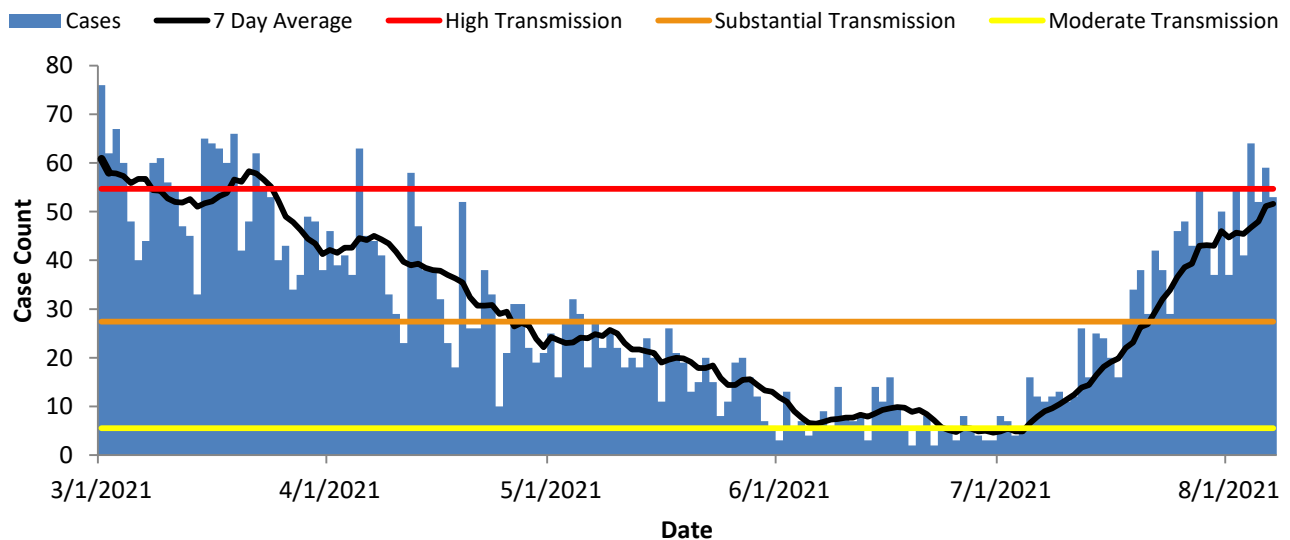
Total # of Cases (8/07):	41,084*
ODH verified Deaths (8/07):	616**
Hospitalizations (8/07):	1,826
ICU admissions (8/07):	164
First Case Reported:	3/11/2020
Last Case Reported (so far):	8/07/2021
Confirmed Cases:	36,363
Probable Cases:	4,721
Age Range:	<1-103
Median Age:	39
Mean Age:	40.6
Incidence (thru 8/07):	10,723.1 per 100,000
Prevalence (thru 8/07):	10.7% of BC population
14-Day Positivity Rate (8/03):	7.5% 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	94.2 per 100,000	Substantial Spread (50-99.9 per 100,000)
Positivity Rate	7.5% 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 rapidly 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. This pattern appears to be maintaining for August. The positivity rate has once again jumped drastically over 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 08/11/2021. 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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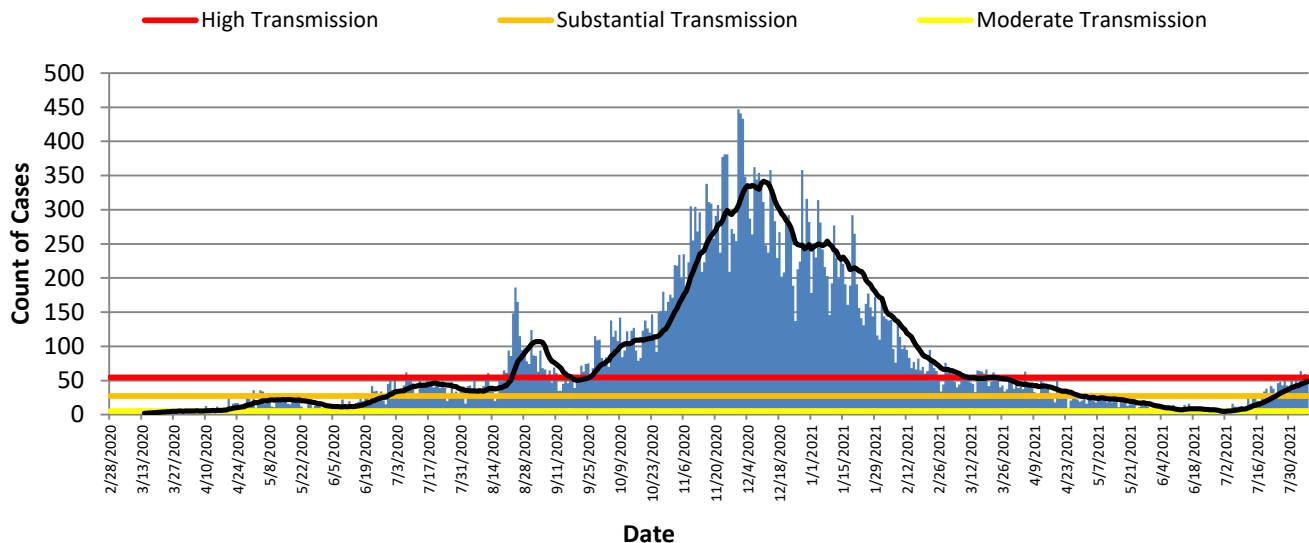
Vaccination numbers were collected 1200 EDT 8/12/2021 from ODH COVID-19 Dashboard and Innovate Ohio Platform. Vaccinations are considered started on the day an individual receives first dose of a COVID-19 vaccine. Vaccinations are considered completed on the day an individual receives the final recommended 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	7063	59	0 (↑0%)	Substantial	17.2%	
45044	5487	68	12 (↑21.4%)	High	13.4%	
45013	5361	49	18 (↑58.1%)	Substantial	13.0%	
45069	5255	42	6 (↑16.7%)	Substantial	12.8%	
45014	5109	43	-3 (↓6.5%)	Substantial	12.4%	
45056	3656	13	2 (↑18.2%)	Moderate	8.9%	
45042	2726	36	5 (↑16.1%)	Substantial	6.6%	
45067	1597	16	4 (↑33.3%)	High	3.9%	
45050	1253	11	-2 (↓15.4%)	High	3.0%	
45015	1054	8	-2(↓20%)	Substantial	2.6%	
45241	564	4	-4 (↓50%)		1.4%	
45053	338	0	-1(100%)	Low	0.8%	
45005	261	1	0(0%)		0.6%	
45064	152	0	0 (NA%)		0.4%	
45246	71	2	-3 (↓60.0%)		0.2%	
45062	61	2	1(100%)		0.1%	
Cases lacking zip code information or from zip codes with too few cases	1,079	7			2.6%	
Butler County (inclusive)	40,675	361	39(↑12.1%)	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.**

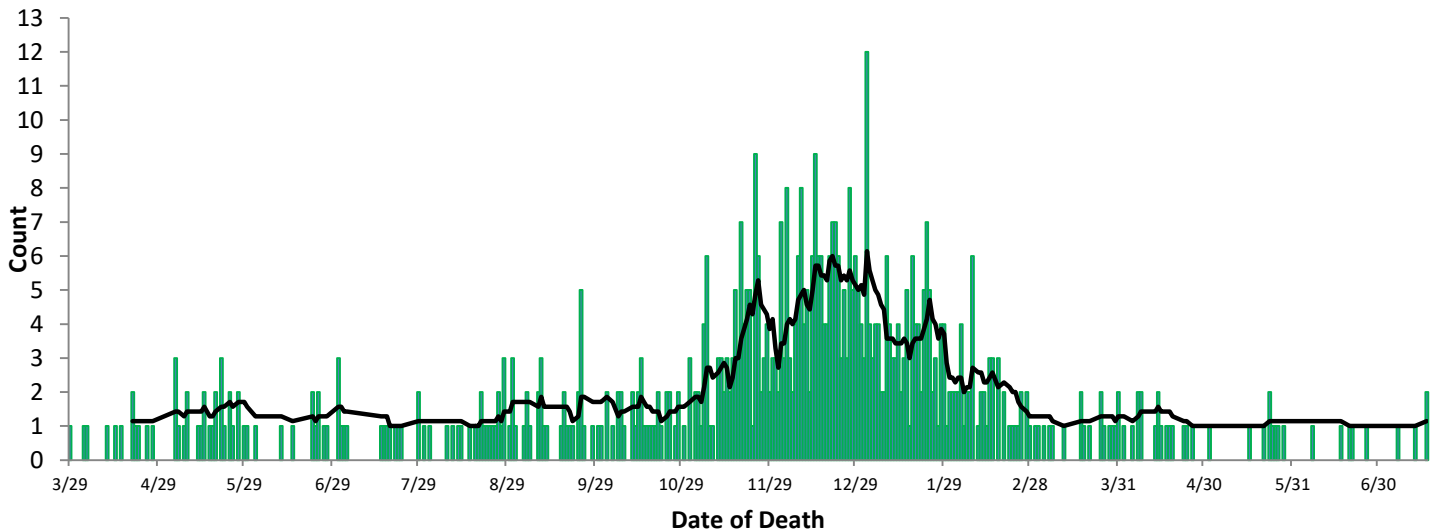
Table 2 shows the zip-code level data that is new from this week. There are three zip-codes that meet definition for high transmission. 45044, 45067 and 45050, this means that there were more than 100 cases per 100,000 people in these zip-codes. There is one zip-code with less than moderate transmission 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*



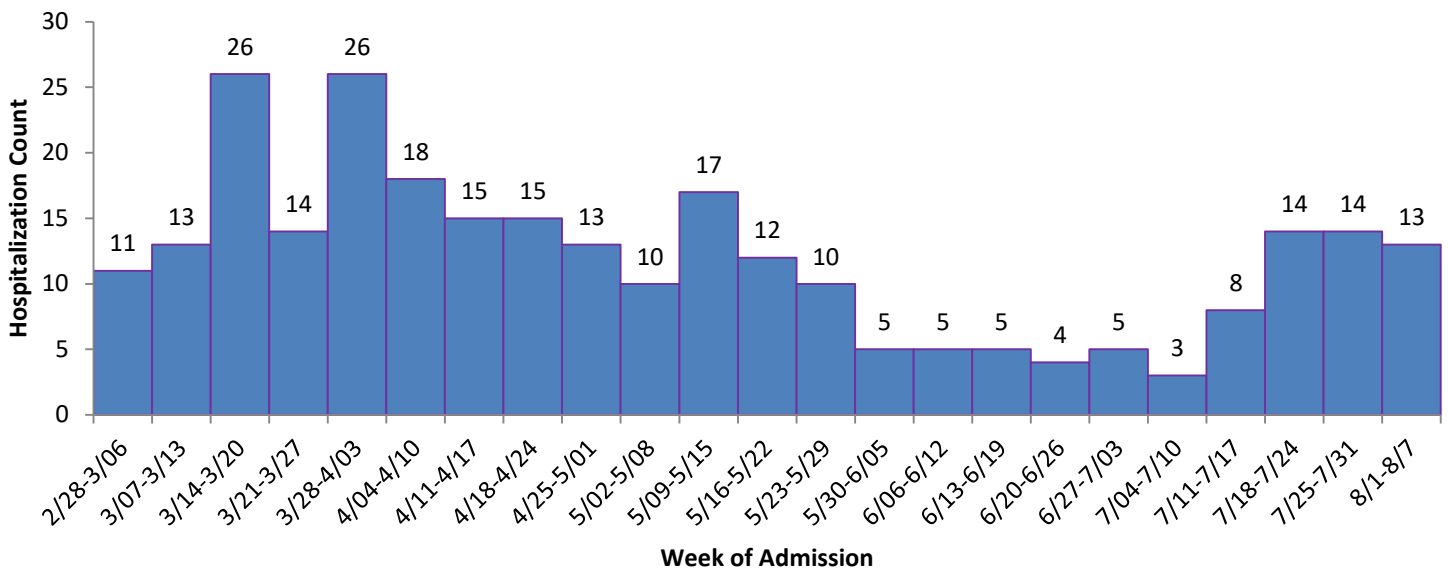
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Figure 3. Confirmed COVID-19 Deaths by date of death, 2020-21**



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. Our new weekly hospitalization numbers are doubling those figures from June.

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.

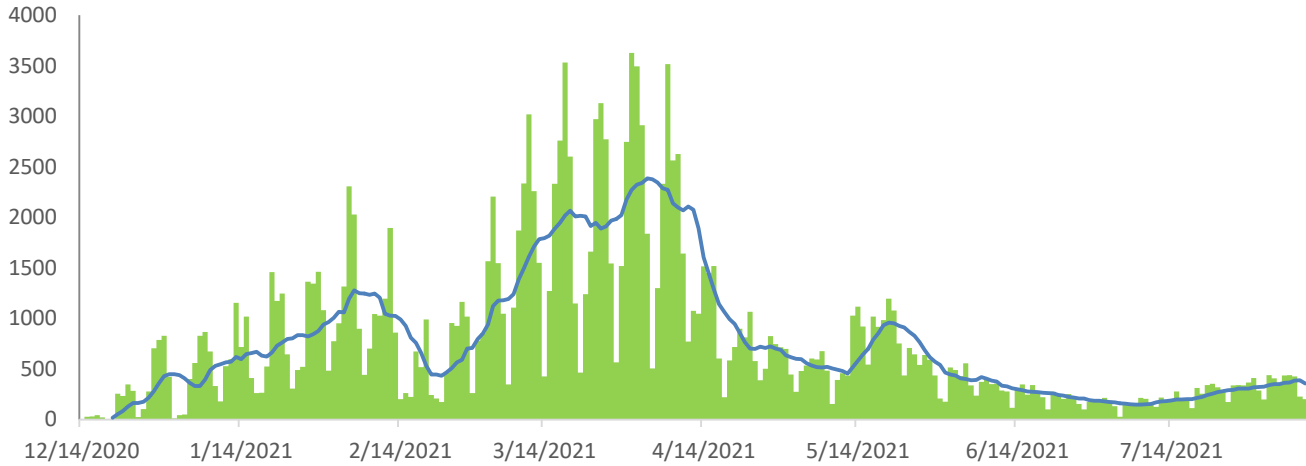


Figure 5 shows vaccines started in Butler County by their date of administration. Table 3 shows the counts of new immunizations over the last two week period as well as total estimates by age group.

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%)	4,250 (28.2%)	4,888 (32.4%)	638	15.0%	10,181
15-17	15,838 (5%)	5,380 (34.0%)	5,885 (37.2%)	505	9.4%	9,953
18-20	20,735 (6%)	7,188 (34.7%)	7,531 (36.3%)	343	4.8%	13,204
21-24	23,864 (7%)	9,198 (38.5%)	9,531 (39.9%)	333	3.6%	14,333
25-34	48,008 (15%)	19,537 (40.7%)	20,276 (42.2%)	739	3.8%	27,732
35-44	45,659 (14%)	24,647 (54.0%)	25,425 (55.7%)	778	3.2%	20,234
45-54	46,344 (14%)	26,927 (58.1%)	27,615 (59.6%)	688	2.6%	18,729
55-64	48,369 (15%)	33,991 (70.3%)	34,554 (71.4%)	563	1.7%	13,815
65-74	36,132 (11%)	28,822 (79.8%)	29,040 (80.4%)	218	0.8%	7,092
75-84	17,318 (5%)	13,826 (79.8%)	13,917 (80.4%)	91	0.7%	3,401
85+	6,788 (2%)	5,552 (81.8%)	5,574 (82.1%)	22	0.4%	1,214

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

Table 4. Cases Under 17 by Zip –Code 07/01-08/07

Zip-Code	Cases since July 1st	Cases per 100,000 since July 1
45011	44	224.7
45069	38	306.2
45044	28	187.8
45014	28	286.3
45013	24	203.0
45050	16	604.0
45042	^	145.2
45056	^	167.1
45067	^	96.9
45246	^	NA
45053	^	505.9
45241	^	NA
45015	^	62.6

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

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