

Butler County General Health District's 98th COVID-19 Update (01/08/2022) Confirmed and Probable COVID-19 Cases Reported to Butler County* Butler County Residents, 2020-21

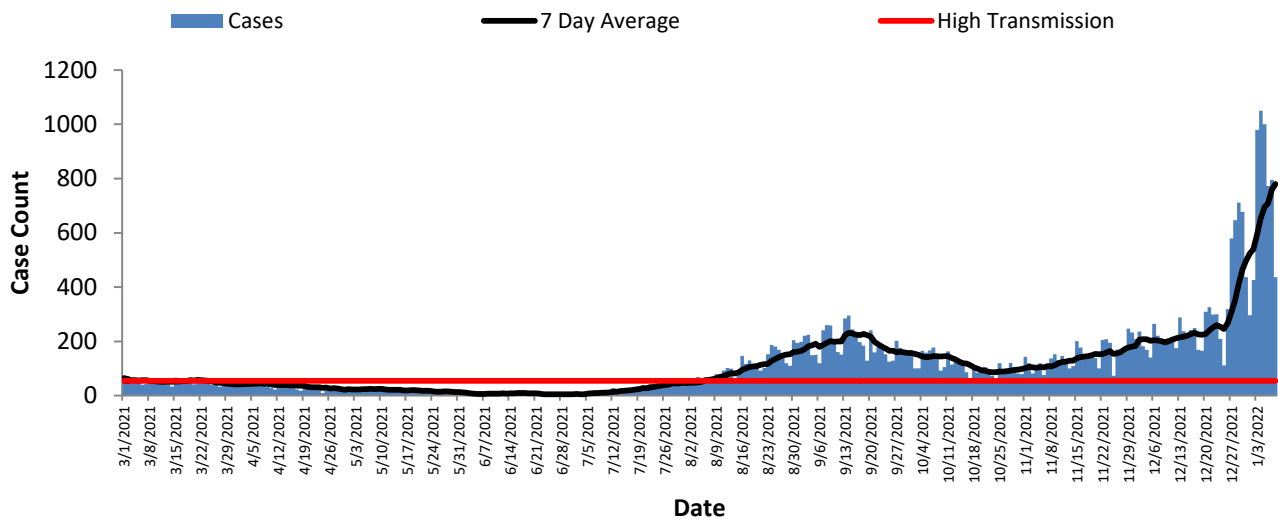
Total # of Cases (01/08):	72,441*
ODH verified Deaths (01/08):	918**
Hospitalizations (01/08):	2,767
First Case Reported:	3/11/2020
Last Case Reported (so far):	01/08/2022
Confirmed Cases:	57,803
Probable Cases:	14,638
Age Range:	<1-103
Median Age:	37
Mean Age:	38.9
Incidence (thru 01/08):	18,907.5 per 100,000
Prevalence (thru 01/08):	18.9% of BC population
7-Day Positivity Rate (01/13):	28.2[#]% 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	1,425.1 per 100,000	High Spread (over 100 per 100,000)
Positivity Rate	28.2% of tests performed in Butler County	High Positivity (over 10.0% 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.

Once again there have been the highest number of cases that have ever been reported to Butler County, towering over the previous highs. In the past two weeks 1 out of every 42 residents in Butler County has tested positive for COVID 19, and 1.4% of the population tested last week. The positivity rate continues to be high with high test volume. The transmission rates in Butler County suggest that if you have a new onset of symptoms associated with COVID-19, you likely have COVID-19.

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 EST 01/13/2022. 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 EST 01/13/2022 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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Figure 2. Reported Cases of COVID-19 by Date of Event 2020-2021*

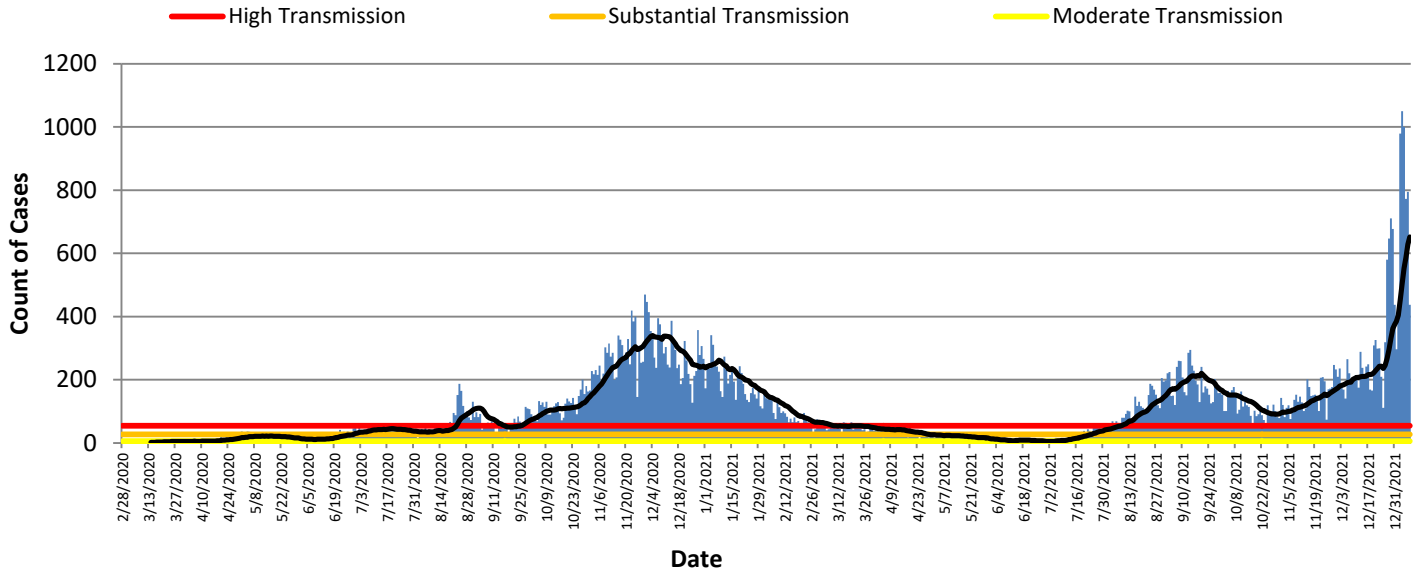


Table 2: Total Reported* Cases by ZIP Code						
ZIP Code	Number of Cases	New Cases (01/02-01/08)	Change in cases from previous 7 days (12/26-12/01)	Transmission	% of Cases	
45011	13137	1145	422 (58.4%)	High	18.1%	
45044	10283	777	236 (43.6%)	High	14.2%	
45013	9832	740	224 (43.4%)	High	13.6%	
45069	9211	824	295(55.8%)	High	12.7%	
45014	8825	708	202 (39.9%)	High	12.2%	
45056	4895	211	78 (58.6%)	High	6.8%	
45042	4897	315	101 (47.2%)	High	6.8%	
45067	2993	172	51 (42.1%)	High	4.1%	
45050	2117	120	29 (31.9%)	High	2.9%	
45015	2065	180	63 (53.8%)	High	2.9%	
45241	1033	97	38 (64.4%)		1.4%	
45053	574	42	20(90.9%)	High	0.8%	
45005	452	36	6(20.0%)		0.6%	
45064	285	17	1(6.3%)		0.4%	
45246	133	13	-2 (-13.3%)		0.2%	
45062	108	8	5 (166.7%)		0.1%	
Cases lacking zip code information or from zip codes with too few cases						
	1,601	55		-	2.2%	
Butler County (inclusive)	72,441	5,460	1792 (48.9%)	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** have rates of disease that once again meet the CDC’s definition of a **community of high transmission**. Almost all zip-codes are seeing record levels of transmission.

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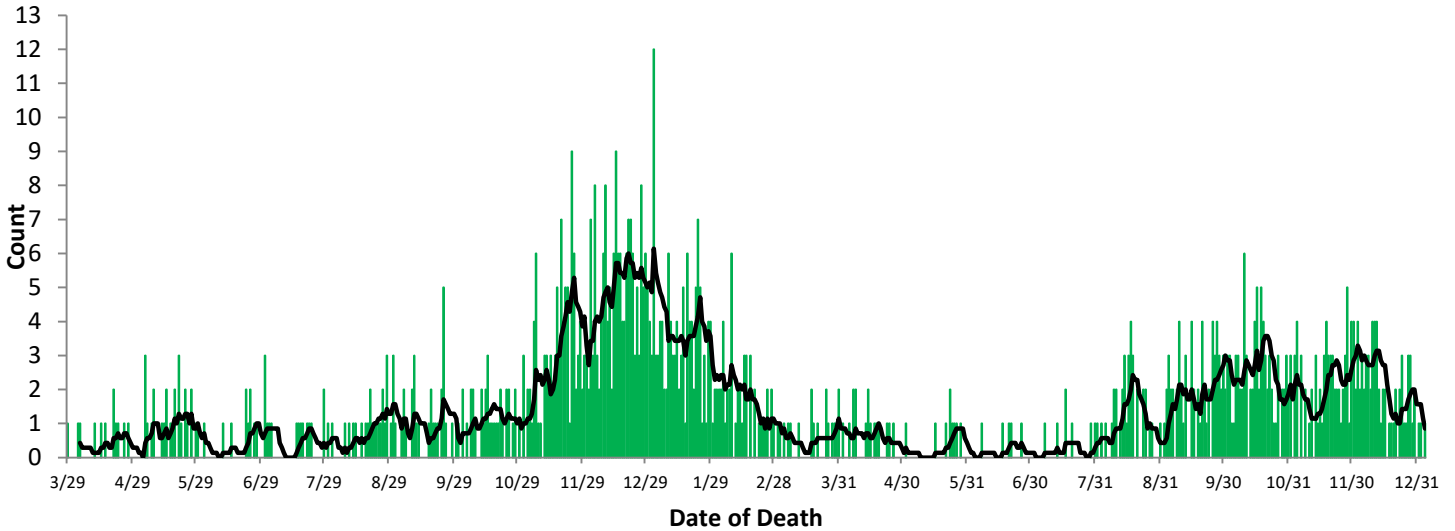
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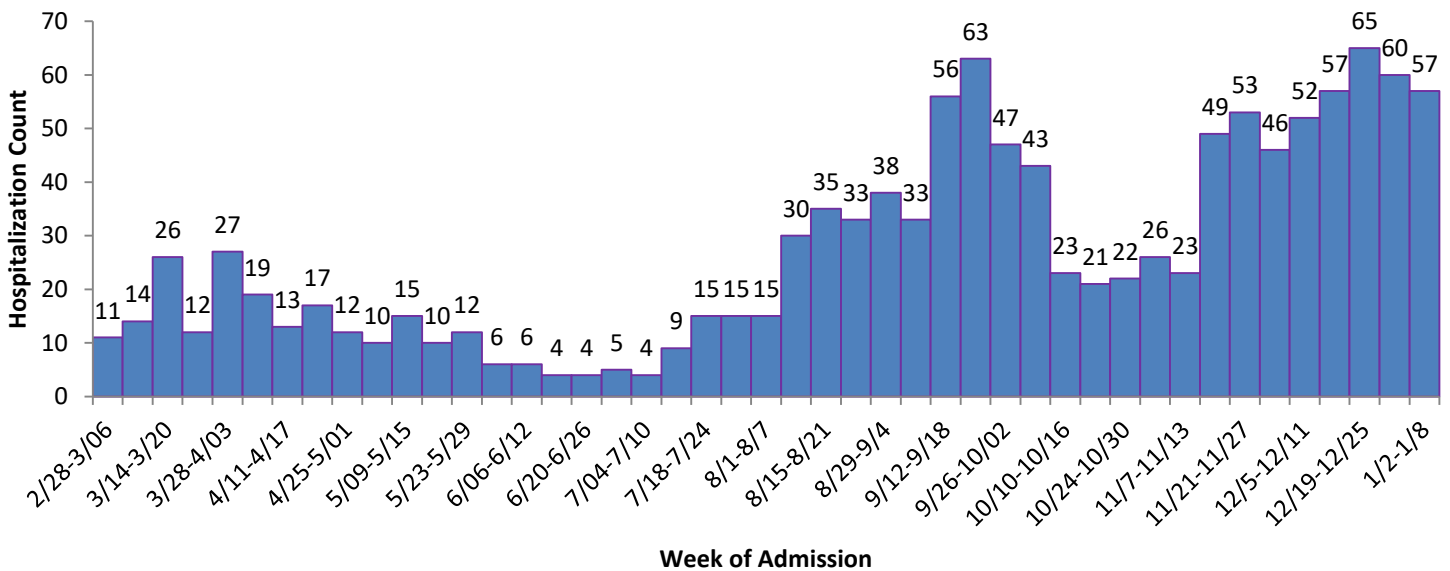
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Figure 3. Confirmed COVID-19 Deaths by date of death, 2020-21**



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. Deaths will take about 4-6 weeks to begin to register for last week. Hospitalized case reports are coming in to BCGHD and these are most likely undercounts due to lags in getting reported cases entered in to the Ohio Disease Reporting System. We are also not likely going to see the rise in hospitalizations for another week or two and then further delays for reporting logistics.

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



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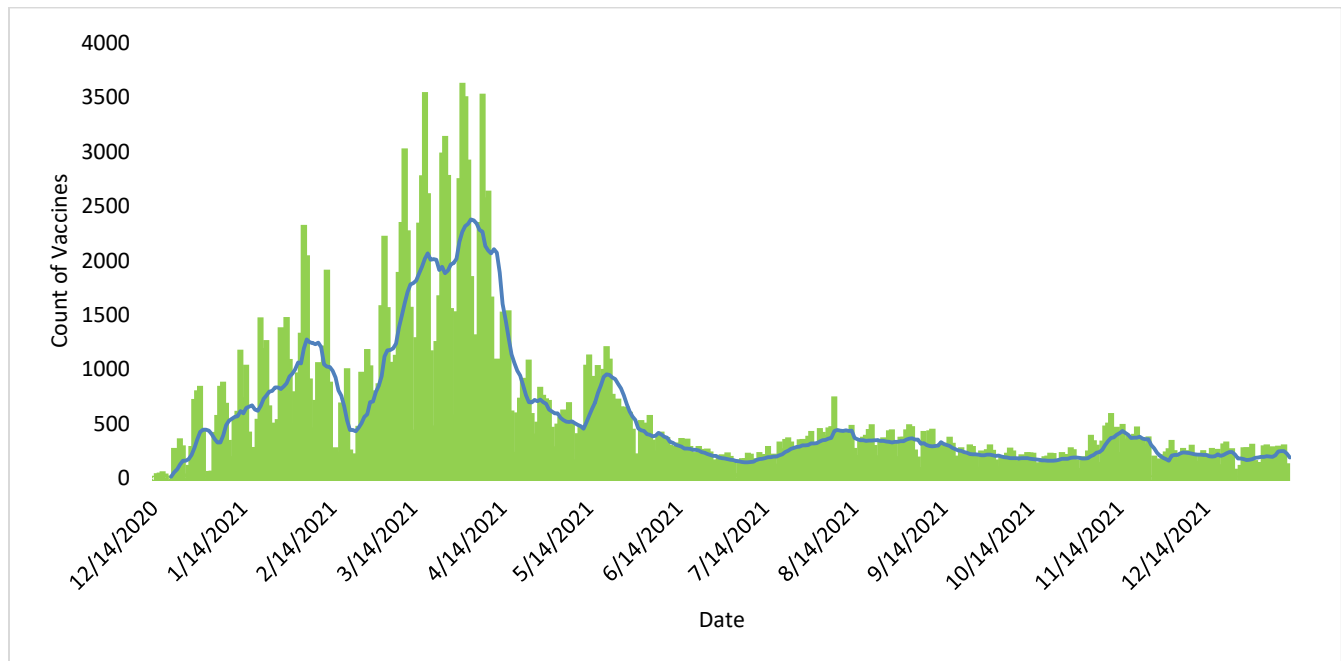
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Figure 5 shows vaccines started in Butler County by their date of administration. Table 3 shows the counts of new immunizations over the last two week period as well as total estimates by age group.

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. A new increase has occurred as 5-11 year olds have become eligible and a decline as those who are most likely to get vaccinated have already done so.

Table 3. Vaccination Statistics by Age Group for Butler County Residents						
Age Group (Years)	Estimated Count of Population # (%)	Count of People Vaccinated (%) as of 12/28/2021	Count of People Vaccinated (%) as of 1/11/2022	Count of People Vaccinated During the last two weeks	Percent Change from 12/28-1/11	Estimated Count of People Unvaccinated
5-11	33,689 (9%)	6,639 (19.7%)	7571 (22.5%)	932	14.0%	26,118
12-14	15,069 (4%)	6,219 (41.3%)	6409 (42.5%)	190	3.1%	8,660
15-17	15,838 (4%)	7,525 (47.5%)	7651 (48.3%)	126	1.7%	8,187
18-20	20,735 (5%)	9,145 (44.1%)	9409 (45.4%)	264	2.9%	11,326
21-24	23,864 (6%)	12,374 (51.9%)	12634 (52.9%)	260	2.1%	11,230
25-34	48,008 (13%)	25,850 (53.8%)	26414 (55.0%)	564	2.2%	21,594
35-44	45,659 (12%)	30,455 (66.7%)	30962 (67.8%)	507	1.7%	14,697
45-54	46,344 (12%)	31,626 (68.2%)	32050 (69.2%)	424	1.3%	14,294
55-64	48,369 (13%)	37,543 (77.6%)	37960 (78.5%)	417	1.1%	10,409
65-74	36,132 (9%)	31,376 (86.8%)	31572 (87.4%)	196	0.6%	4,560
75-84	17,318 (5%)	15,523 (89.6%)	15583 (90.0%)	60	0.4%	1,735
85+	6,788 (2%)	6,275 (92.4%)	6292 (92.7%)	17	0.3%	496

#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 08/01-01/08

Zip Code	Cases since August 1st	Cases per 100,000 past week
45011	1356	1021.3
45069	912	1224.6
45044	1025	845.1
45014	703	1135.0
45013	825	981.1
45050	207	792.8
45042	383	643.0
45056	244	1236.2
45015	208	1063.5
45241	95	-
45067	287	581.1
45053	42	1349.1
45246	23	-

^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, all of 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	% of 5-11 Year Olds Vaccinated
45011	56%	60%	49%	23%
45013	55%	58%	40%	14%
45014	65%	69%	54%	21%
45015	47%	51%	34%	9%
45042	52%	55%	36%	12%
45044	56%	60%	49%	19%
45050	63%	68%	54%	26%
45053	56%	59%	45%	12%
45056	45%	46%	45%	37%
45064	45%	47%	24%	10%
45067	43%	46%	34%	9%
45069	73%	78%	66%	42%

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