

Butler County General Health District's 95th COVID-19 Update (12/18/2021)

Confirmed and Probable COVID-19 Cases Reported to Butler County* Butler County Residents, 2020-21

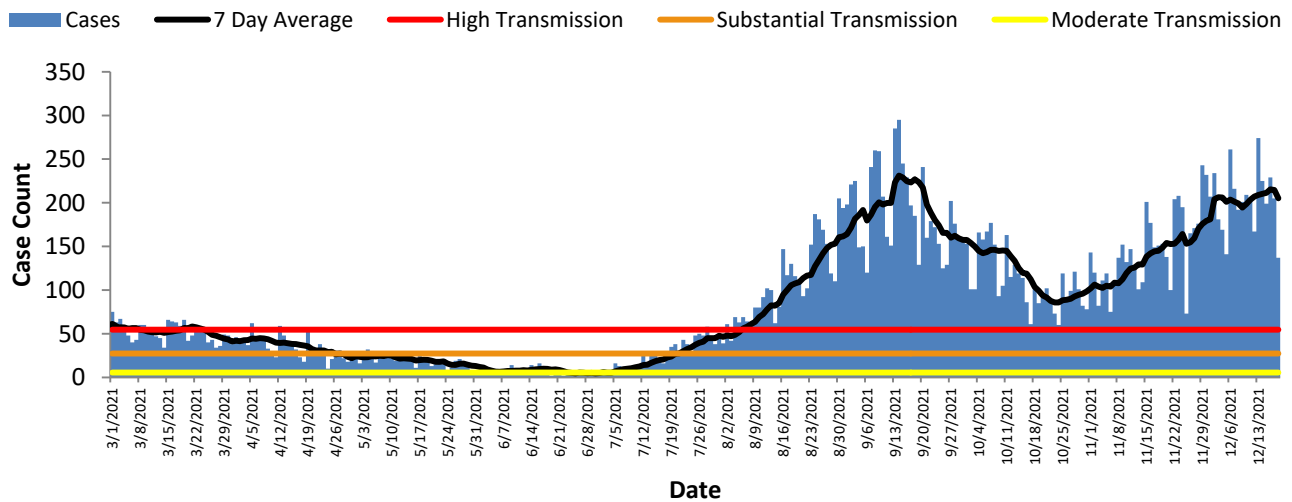
Total # of Cases (12/18):	61,395*
ODH verified Deaths (12/18):	865**
Hospitalizations (12/18):	2,575
First Case Reported:	3/11/2020
Last Case Reported (so far):	12/18/2021
Confirmed Cases:	50,131
Probable Cases:	11,264
Age Range:	<1-103
Median Age:	38
Mean Age:	39.2
Incidence (thru 12/18):	16,024.4 per 100,000
Prevalence (thru 12/18):	16.0% of BC population
7-Day Positivity Rate (12/23):	15.5[#]% 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	374.8 per 100,000	High Spread (over 100 per 100,000)
Positivity Rate	15.47% 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.

Cases increased from the previous week. Though the increase was just under 1% (0.84), steadily increasing numbers compounding already high caseloads, a high positivity rate, and a high case hospitalization rate are indicators of a continuing upwards trend in cases. As we go into the holidays we are seeing some transmission rates that rival the previous peaks in 2021 and are likely to end the year on an increase in cases.

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 12/23/2021. 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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Vaccination numbers were collected 1200 EST 12/23/2021 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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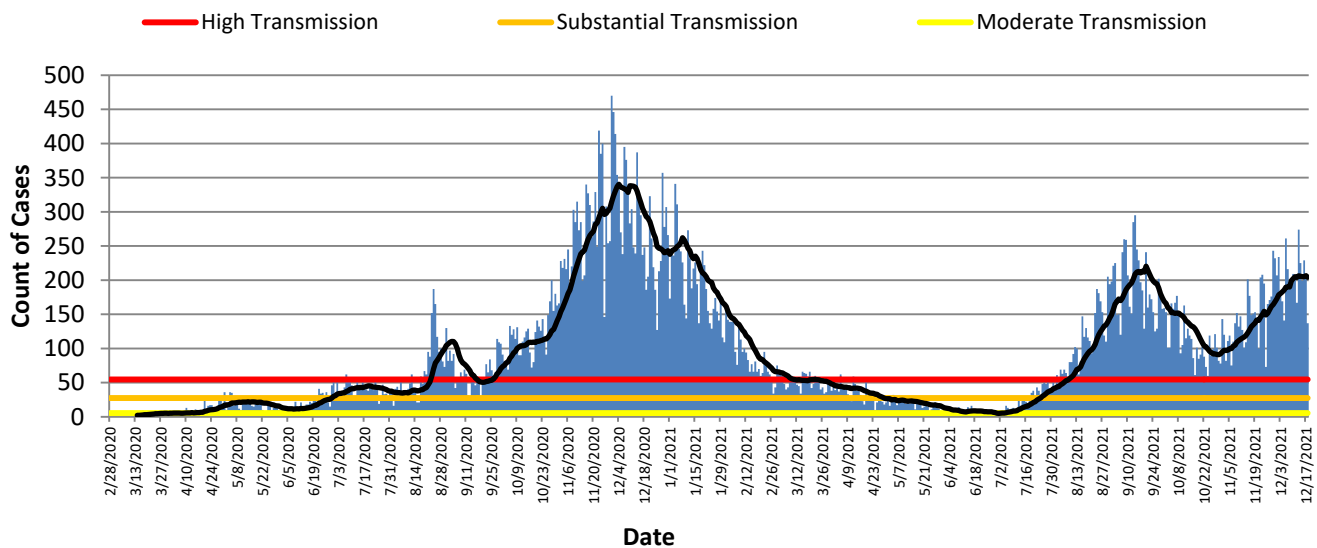
Table 2: Total Reported* Cases by ZIP Code						
ZIP Code	Number of Cases	New Cases (12/12-12/18)	Change in cases from previous 7 days (12/05-12/11)	Transmission	% of Cases	
45011	10864	284	-3 (-1.0%)	High	17.7%	
45044	8701	226	33 (17.1%)	High	14.2%	
45013	8323	238	17 (7.7%)	High	13.6%	
45069	7539	188	4(2.2%)	High	12.3%	
45014	7384	164	-9 (-5.2%)	High	12.0%	
45056	4470	54	6 (12.5%)	High	7.3%	
45042	4258	99	-5 (-4.8%)	High	6.9%	
45067	2642	52	-12 (-18.8%)	High	4.3%	
45050	1861	21	-19 (-47.5%)	High	3.0%	
45015	1705	45	6 (15.4%)	High	2.8%	
45241	848	22	3(15.8%)		1.4%	
45053	505	14	4(40.0%)	High	0.8%	
45005	368	11	5(83.3%)		0.6%	
45064	243	2	-1 (-33.3%)		0.4%	
45246	101	3	1 (50%)		0.2%	
45062	97	3	0(0%)		0.2%	
Cases lacking zip code information or from zip codes with too few cases	1,486	10		-	2.4%	
Butler County (inclusive)	61,395	1436	12 (0.84%)	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**. 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. Reported Cases of COVID-19 by Date of Event 2020-2021*



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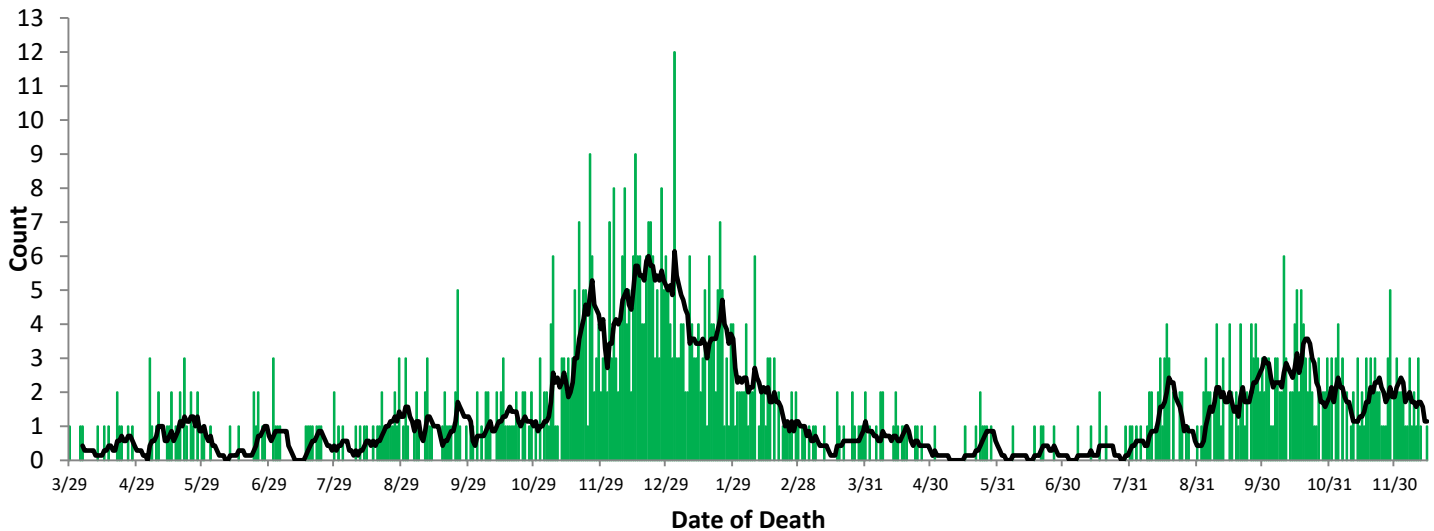
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Figure 3. Confirmed COVID-19 Deaths by date of death, 2020-21**



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. Hospitalizations and deaths have increased this week and are likely to stay high over the next couple of weeks at least.

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

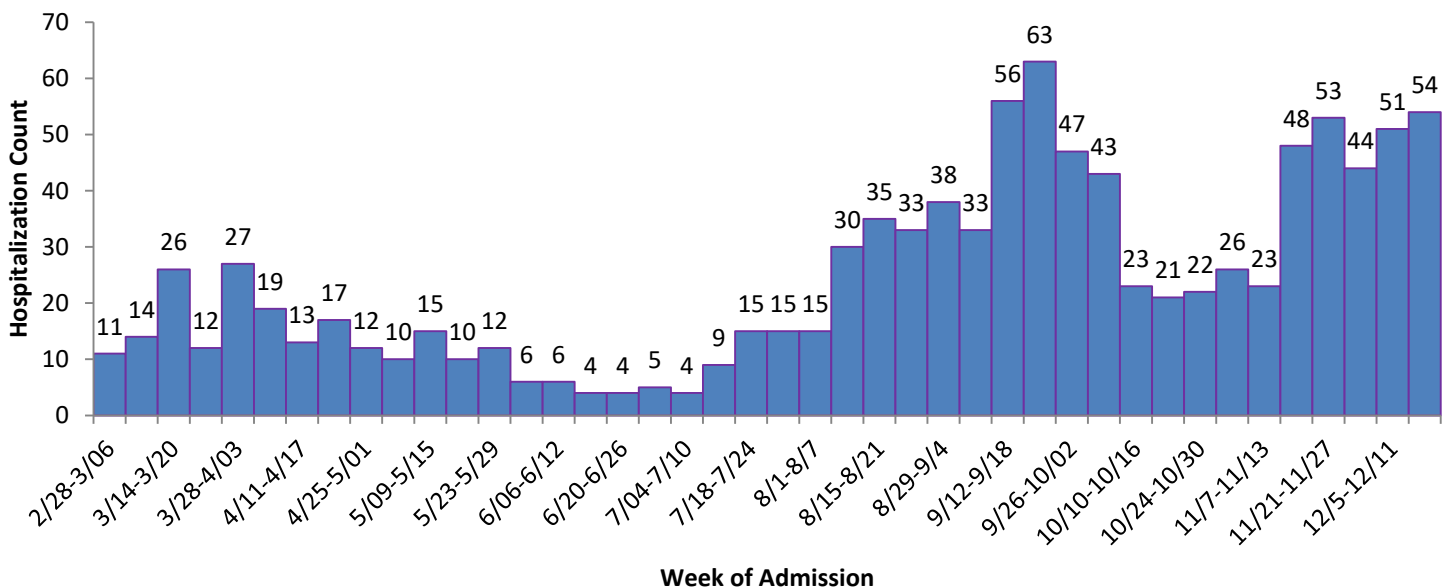


Figure 5 shows vaccines started in Butler County by their date of administration. Table 3 shows the counts of new immunizations over the last two week period as well as total estimates by age group.

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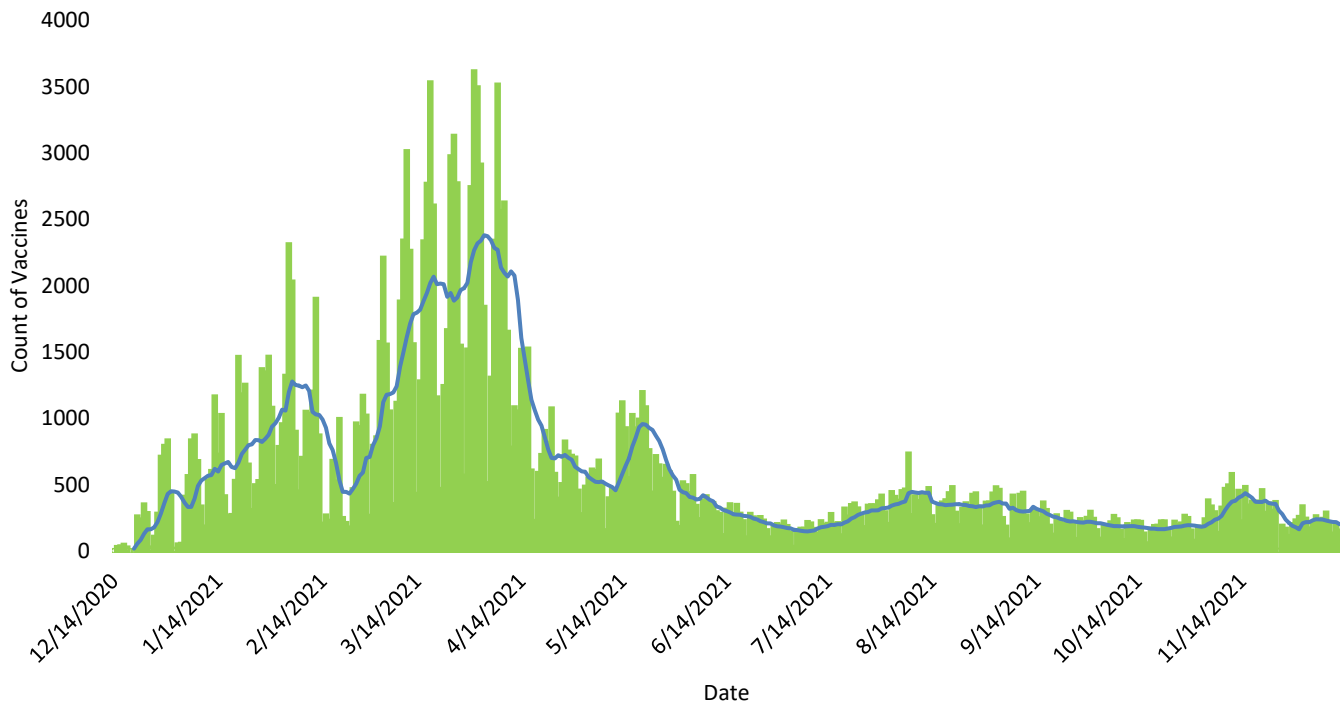
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Figure 5. Vaccines Administered by Date in Butler County, 2020-2021



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 11/30/2021 (at least one dose)	Count of People Vaccinated (%) as of 12/14/2021 (at least one dose)	Count of People Vaccinated during the last two weeks	Percent Change from 11/30-12/14	Estimated Count of People Who are Unvaccinated
5-11	33,689 (9%)	4,665 (13.8%)	5,772 (17.1%)	1,107	23.7%	27,917
12-14	15,069 (4%)	6,149 (40.8%)	6,209 (41.2%)	60	1.0%	8,860
15-17	15,838 (4%)	7,363 (46.5%)	7,441 (47.0%)	78	1.1%	8,397
18-20	20,735 (5%)	9,097 (43.9%)	9,167 (44.2%)	70	0.8%	11,568
21-24	23,864 (6%)	11,957 (50.1%)	12,175 (51.0%)	218	1.8%	11,689
25-34	48,008 (12%)	25,112 (52.3%)	25,537 (53.2%)	425	1.7%	22,471
35-44	45,659 (12%)	29,959 (65.6%)	30,303 (66.4%)	344	1.1%	15,356
45-54	46,344 (12%)	31,169 (67.3%)	31,466 (67.9%)	297	1.0%	14,878
55-64	48,369 (12%)	37,206 (76.9%)	37,498 (77.5%)	292	0.8%	10,871
65-74	36,132 (9%)	31,002 (85.8%)	31,195 (86.3%)	193	0.6%	4,937
75-84	17,318 (4%)	15,156 (87.5%)	15,304 (88.4%)	148	1.0%	2,014
85+	6,788 (2%)	6,101 (89.9%)	6,167 (90.9%)	66	1.1%	621

#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 08/01-12/18

Zip Code	Cases since August 1st	Cases per 100,000 past week
45011	978	280.9
45069	616	322.3
45044	778	228.1
45014	502	296.5
45013	621	312.9
45050	165	151.0
45042	314	228.2
45056	182	334.1
45015	149	125.1
45241	66	-
45067	240	339.0
45053	34	168.6
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, 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	54%	58%	47%	17%
45013	53%	57%	38%	10%
45014	63%	67%	52%	14%
45015	45%	49%	33%	6%
45042	51%	53%	34%	8%
45044	54%	58%	47%	15%
45050	62%	66%	53%	19%
45053	55%	58%	43%	9%
45056	44%	45%	44%	32%
45064	44%	46%	22%	6%
45067	42%	45%	33%	7%
45069	71%	76%	64%	32%

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