

Butler County General Health District's 77th COVID-19 Update (8/14/2021)

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

Butler County Residents, 2020-21

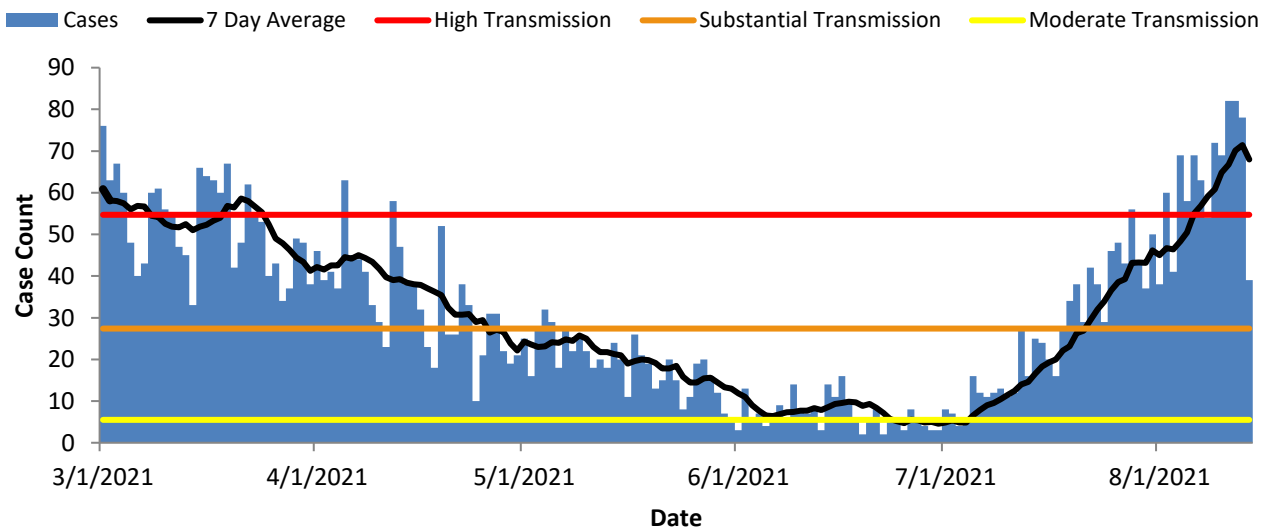
Total # of Cases (8/14):	41,601*
ODH verified Deaths (8/14):	620**
Hospitalizations (8/14):	1,838
ICU admissions (8/14):	166
First Case Reported:	3/11/2020
Last Case Reported (so far):	8/14/2021
Confirmed Cases:	36,766
Probable Cases:	4,835
Age Range:	<1-103
Median Age:	39
Mean Age:	40.6
Incidence (thru 8/14):	10,858.0 per 100,000
Prevalence (thru 8/14):	10.9% of BC population
14-Day Positivity Rate (8/10):	8.7% 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	124.2 per 100,000	High Spread (over 100 per 100,000)
Positivity Rate	8.7% of tests performed in Butler County	Substantial Positivity (8.00%-9.99% 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. Over the month of July, caseloads doubled over two week periods, and we have now met CDC's definition for a **community with high 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 08/17/2021. 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.

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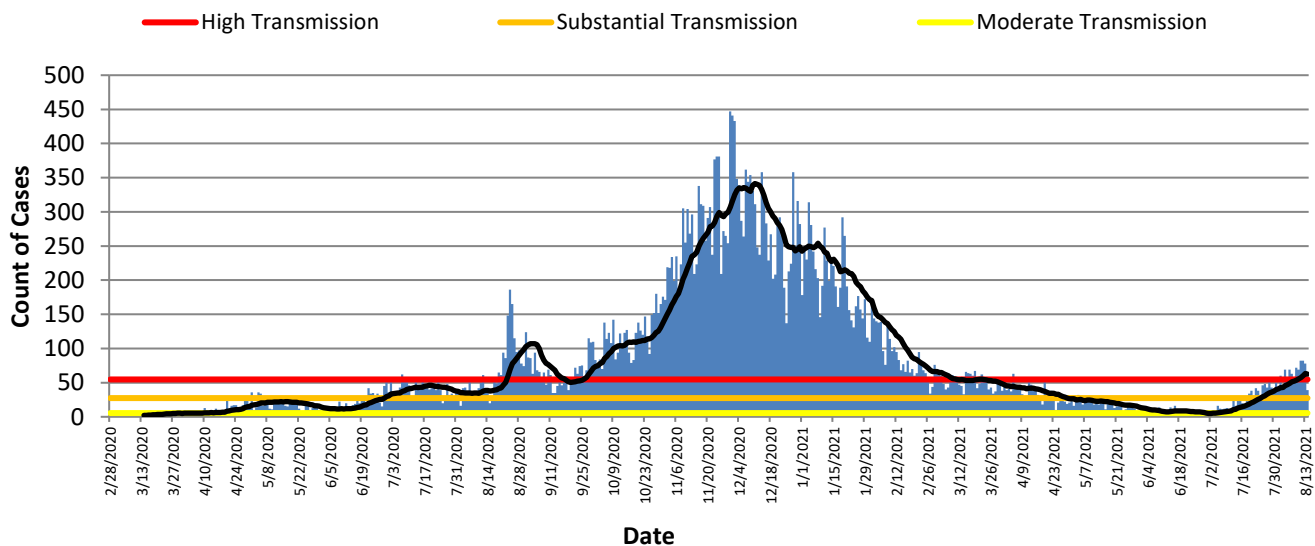
Table 2: Total Reported* Cases by ZIP Code						
ZIP Code	Number of Cases	New Cases (8/8-8/14)	Change in cases from previous 7 days (8/1-8/7)	Transmission	% of Cases	
45011	7150	78	10 (↑14.7%)	High	17.2%	
45044	5593	91	9 (↑11.0%)	High	13.4%	
45013	5429	66	15 (↑29.4%)	High	13.1%	
45069	5320	63	21 (↑50%)	High	12.8%	
45014	5161	50	5 (↑11.1%)	High	12.4%	
45056	3675	18	4 (↑28.6%)	Substantial	8.8%	
45042	2770	40	0 (↑0%)	High	6.7%	
45067	1614	16	-1 (↓5.9%)	High	3.9%	
45050	1268	12	-2 (↓14.3%)	High	3.0%	
45015	1068	13	4 (↑44.4%)	High	2.6%	
45241	577	12	8 (↑200%)		1.4%	
45053	342	4	4 (NA%)	High	0.8%	
45005	262	1	0 (0%)		0.6%	
45064	152	0	0 (NA%)		0.4%	
45246	71	0	-2 (↓100%)		0.2%	
45062	63	2	0 (0%)		0.2%	
Cases lacking zip code information or from zip codes with too few cases	1,086	10		-	2.6%	
Butler County (inclusive)	41,601	476	78 (↑19.6%)	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 but one** zip-code in Butler County now meets 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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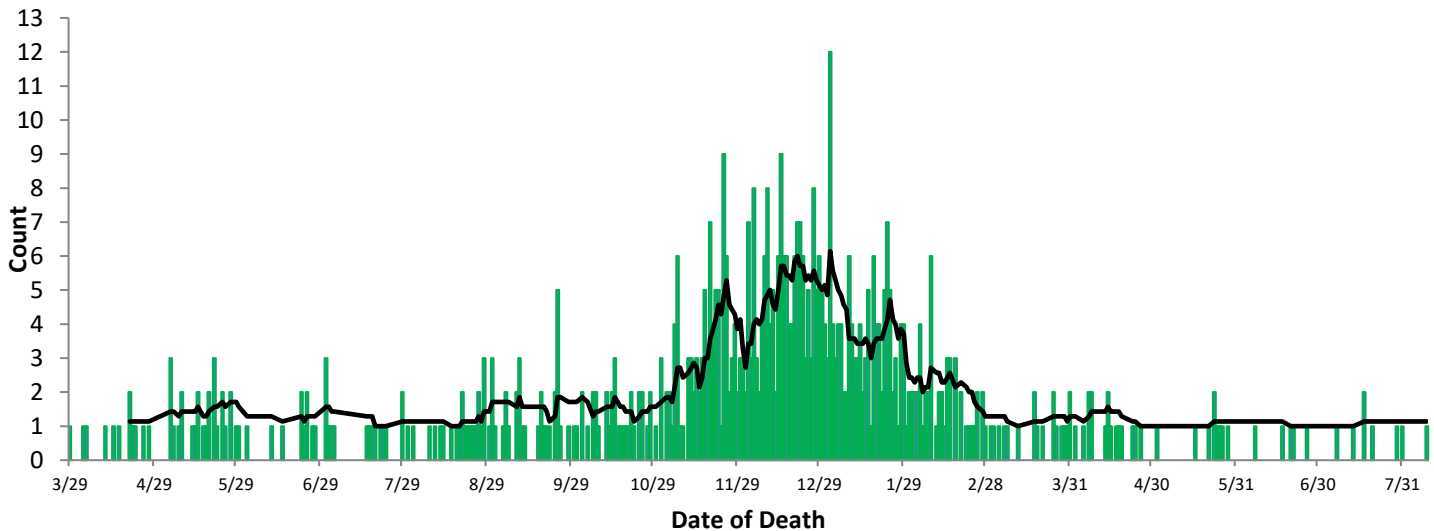
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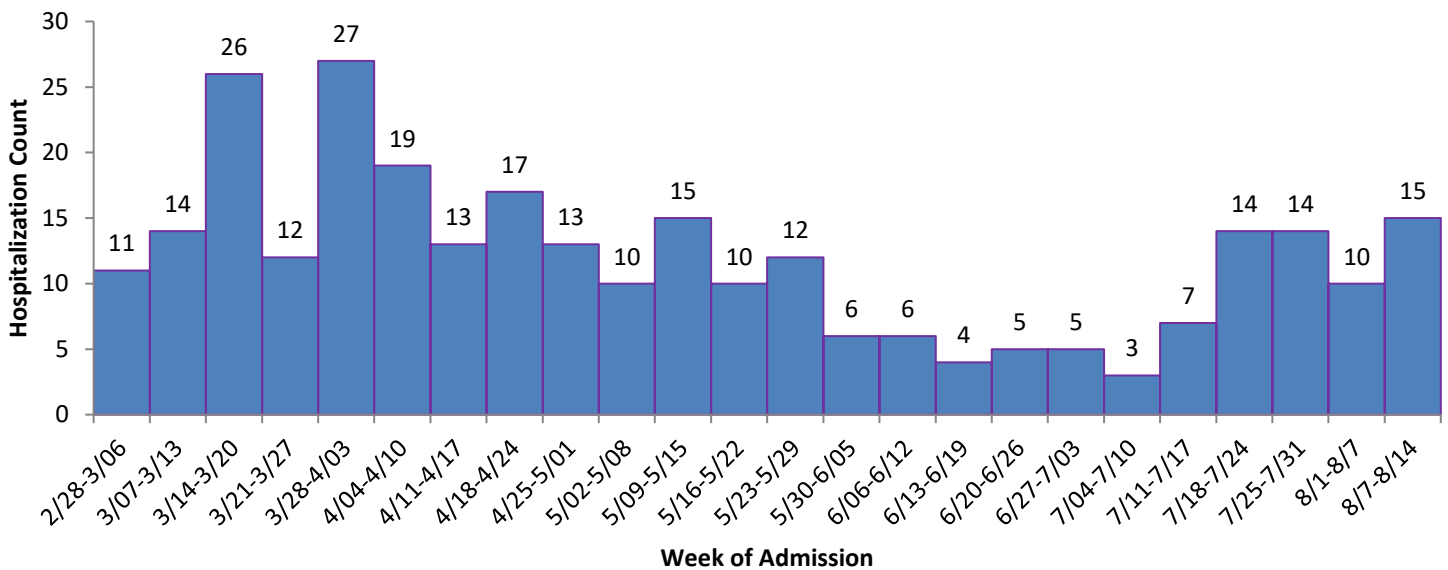
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Figure 3. Confirmed COVID-19 Deaths by date of death, 2020-21**



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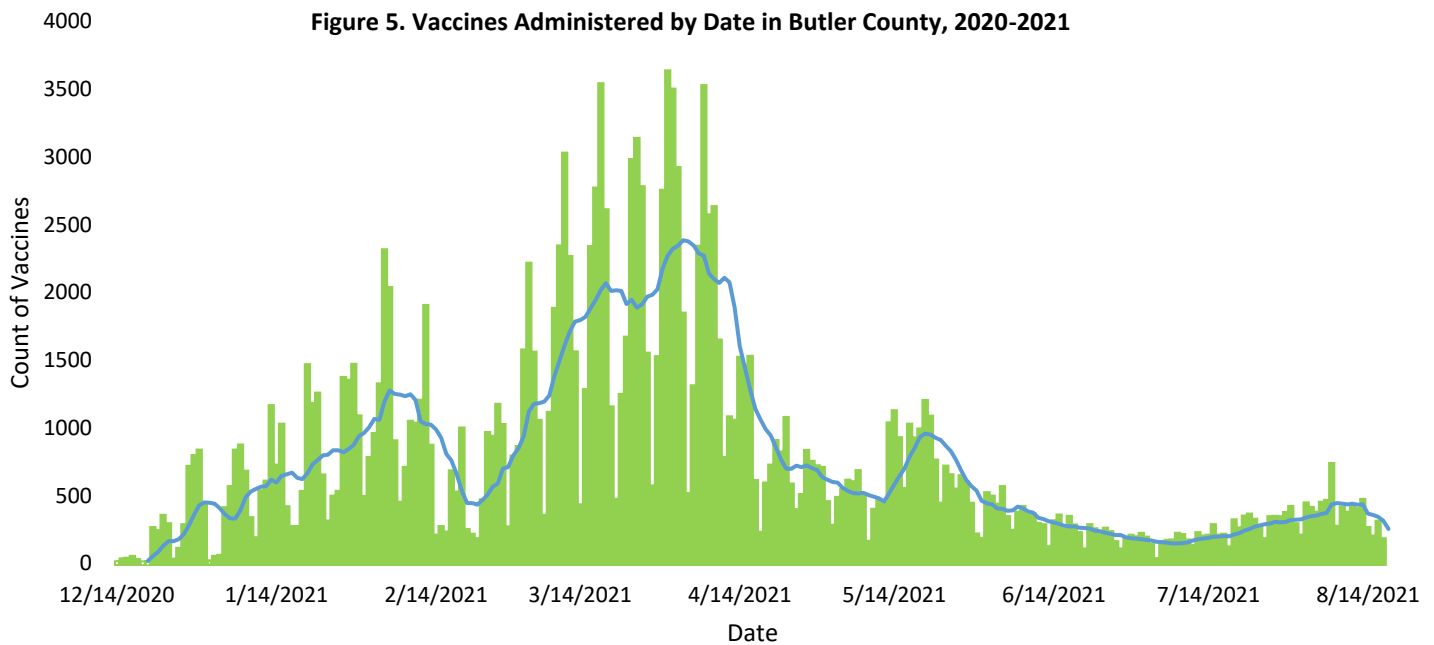
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Figure 5 shows vaccines started in Butler County by their date of administration. Table 3 shows the counts of new immunizations over the last two week period as well as total estimates by age group.



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 8/3/2021	Count of People Vaccinated (%) as of 8/17/2021	Count of People Vaccinated During the last two weeks	Percent Change from 8/3 to 8/17	Estimated Count of People Unvaccinated
12-14	15,069 (5%)	4,548 (30.2%)	5,208 (34.6%)	660	14.5%	9,861
15-17	15,838 (5%)	5,590 (35.3%)	6,140 (38.8%)	550	9.8%	9,698
18-20	20,735 (6%)	7,363 (35.5%)	7,740 (37.3%)	377	5.1%	12,995
21-24	23,864 (7%)	9,344 (39.2%)	9,751 (40.9%)	407	4.4%	14,113
25-34	48,008 (15%)	19,844 (41.3%)	20,736 (43.2%)	892	4.5%	27,272
35-44	45,659 (14%)	24,992 (54.7%)	25,957 (56.8%)	965	3.9%	19,702
45-54	46,344 (14%)	27,267 (58.8%)	28,047 (60.5%)	780	2.9%	18,297
55-64	48,369 (15%)	34,271 (70.6%)	34,880 (72.1%)	609	1.8%	13,489
65-74	36,132 (11%)	28,871 (79.9%)	29,213 (80.9%)	342	1.2%	6,919
75-84	17,318 (5%)	13,827 (79.8%)	13,985 (80.8%)	158	1.1%	3,333
85+	6,788 (2%)	5,545 (81.7%)	5,606 (82.6%)	61	1.1%	1,182

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

Important and of note, the imminent return of the school year seems to be associated with a dramatic uptick in vaccine uptake among school age children. The 12-14 age group saw the largest increase at 14.5% over the last two weeks followed by the 15-17 year age group with 9.8%, both are highlighted for your attention.

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

Zip Code	Cases since July 1st	Cases per 100,000 since July 1
45011	59	301.3
45069	50	402.8
45044	43	288.4
45014	34	347.6
45013	33	279.1
45050	17	641.8
45042	15	311.1
45056	10	334.1
45015	-^	187.7
45241	-^	NA
45067	-^	1773.1
45053	-^	210.4
45246	-^	NA

^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 - Oxford	11,066	15,361	42%
45067 - Trenton	5,432	7,525	42%
45064 - Somerville	1,221	1,662	42%
45015 - Hamilton	4,601	5,238	47%
45042 - Middletown	11,027	11,483	49%
45053 - Okeana	1,474	1,333	53%
45013 - Hamilton	24,397	20,932	54%
45011 - Hamilton	35,257	28,755	55%
45044 - Middletown	24,705	19,682	56%
45050 - Monroe	5,779	3,415	63%
45014 - Fairfield	24,483	14,380	63%
45069 - West Chester	32,703	12,212	73%

In zip codes 45056, 45067 and 45064, 42% of the eligible population (12+) have been vaccinated (at least one dose).

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Figure 6. Percent Vaccinated in Ohio Counties (at least one dose)#

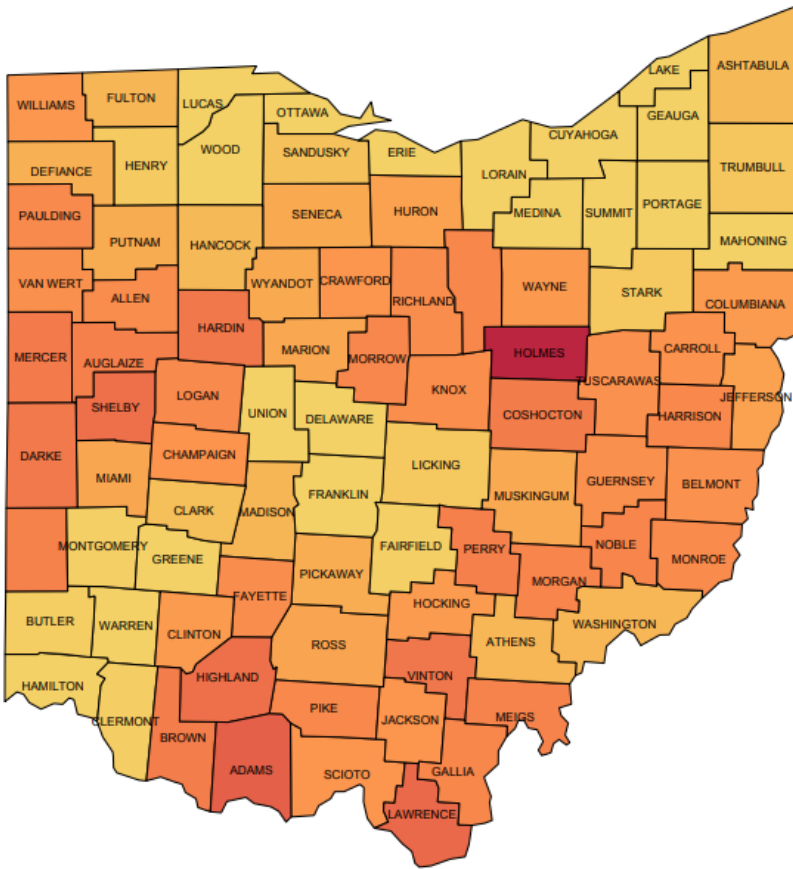
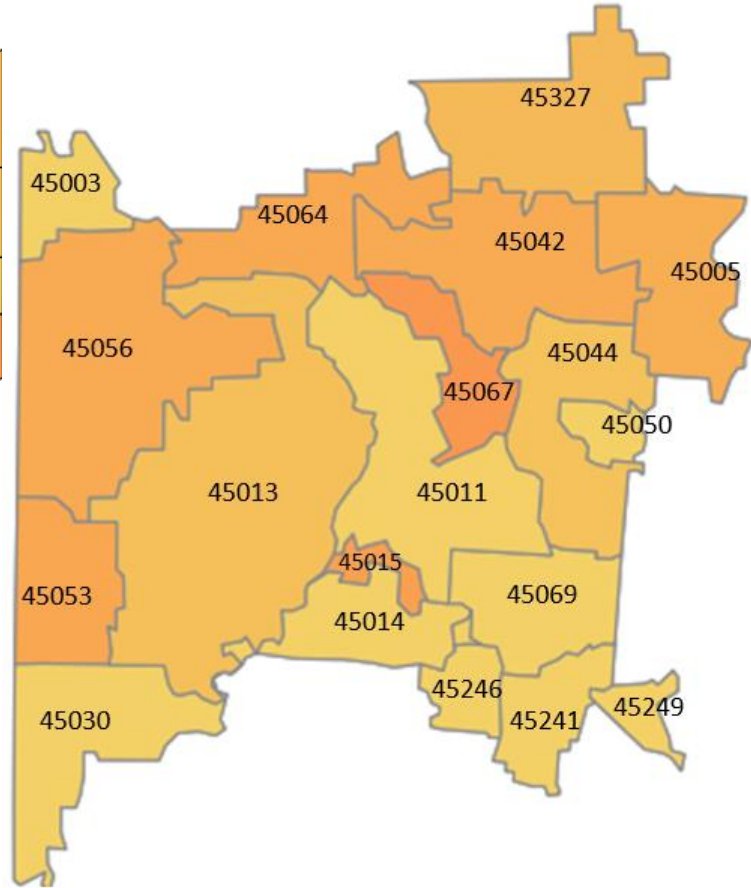


Figure 7. Percent Vaccinated in Butler County Zip Codes (at least one dose)



County Percent Vax Map



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