

Butler County General Health District's 83rd COVID-19 Update (9/30/2021)

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

Butler County Residents, 2020-21

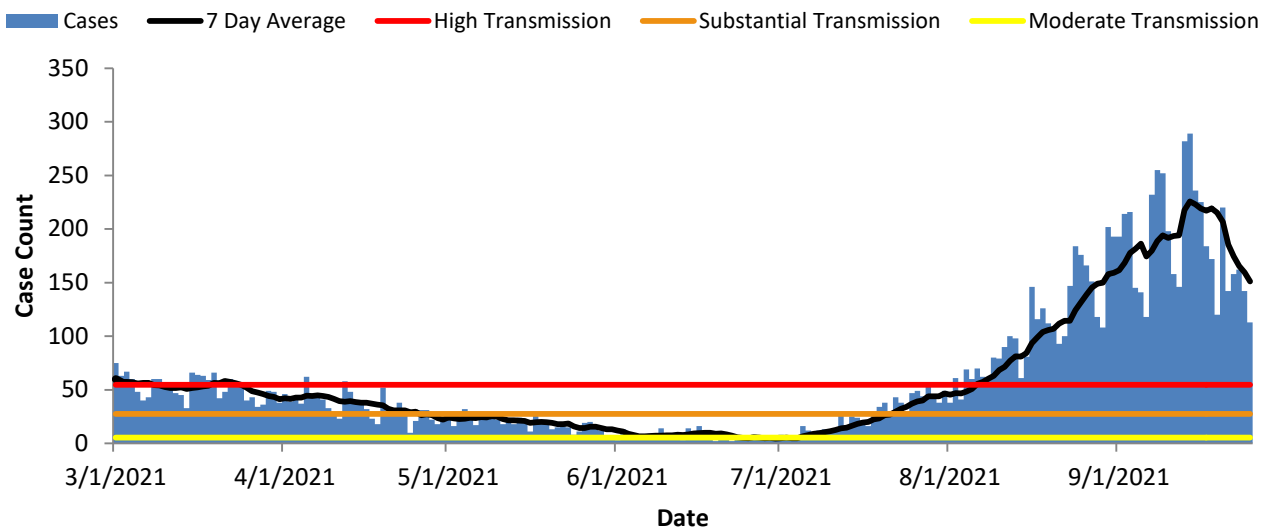
| | |
|--------------------------------------|---|
| Total # of Cases (9/25): | 48750* |
| ODH verified Deaths (9/25): | 667** |
| Hospitalizations (9/25): | 2111 |
| First Case Reported: | 3/11/2020 |
| Last Case Reported (so far): | 9/25/2021 |
| Confirmed Cases: | 41,698 |
| Probable Cases: | 7,052 |
| Age Range: | <1-103 |
| Median Age: | 38 |
| Mean Age: | 39.7 |
| Incidence (thru 9/25): | 12,724.0 per 100,000 |
| Prevalence (thru 9/25): | 12.7% of BC population |
| 7-Day Positivity Rate (9/30): | 12.7[#]% 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 | 275.9 per 100,000 | High Spread (over 100 per 100,000) |
| Positivity Rate | 12.7% of tests performed in Butler County | High Positivity (over 10.00% 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.

Preliminary information suggests that the fourth wave *may have* peaked in Butler County. It is important that we continue to be vigilant and understand that based on the amount of active cases in Butler County that we are still **a community of high transmission and high positivity**. However, this week we saw a steep decline in cases. It would be premature to say that cases will continue to decline rapidly, but indicators do say that a long-term drop will continue.

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 09/30/2021. 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.
 Vaccination numbers were collected 1200 EDT 9/30/2021 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.
 #Gathered from CDC's Data Tracker of Butler County 9/30/2021 0800 EDT accessible at <https://covid.cdc.gov/covid-data-tracker/#county-view>

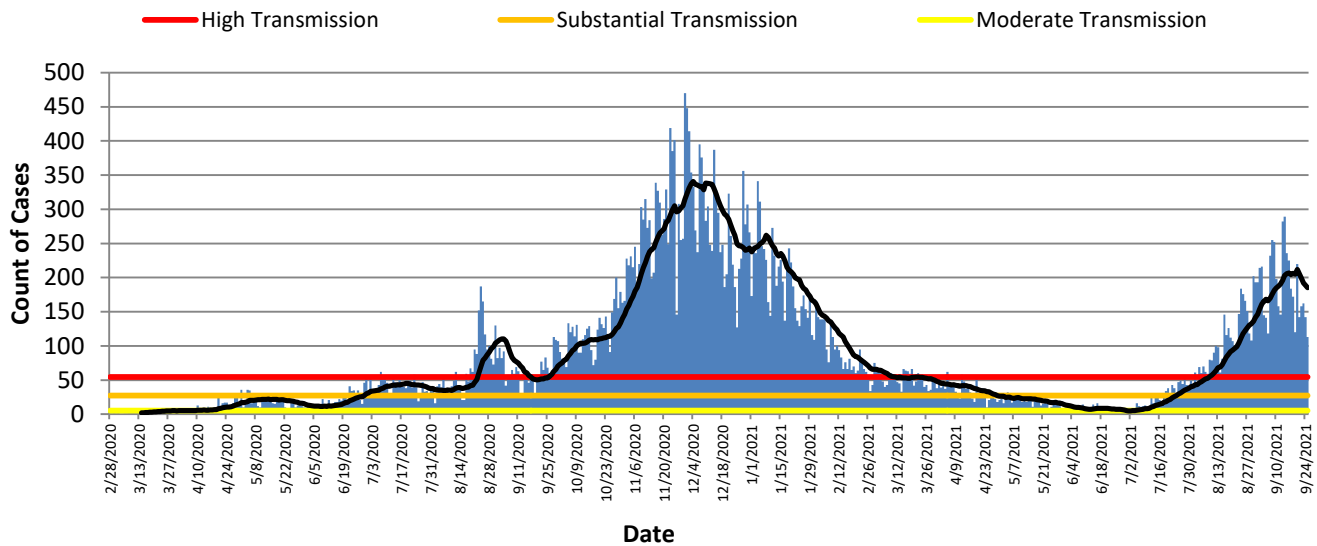
| Table 2: Total Reported* Cases by ZIP Code | | | | | | |
|---|-----------------|-----------------------|---|--------------|-------------|--|
| ZIP Code | Number of Cases | New Cases (9/12-9/18) | Change in cases from previous 7 days (9/5-9/11) | Transmission | % of Cases | |
| 45011 | 8359 | 169 | -101 (-37.4%) | High | 17.1% | |
| 45044 | 6742 | 184 | -47 (-20.3%) | High | 13.8% | |
| 45013 | 6442 | 155 | -103 (-39.9%) | High | 13.2% | |
| 45069 | 6037 | 107 | -47 (-30.5%) | High | 12.4% | |
| 45014 | 5936 | 131 | -8 (-5.8%) | High | 12.2% | |
| 45056 | 3958 | 42 | -20 (-32.3%) | High | 8.1% | |
| 45042 | 3332 | 83 | -31 (-27.2%) | High | 6.8% | |
| 45067 | 2065 | 60 | -29 (-32.6%) | High | 4.2% | |
| 45050 | 1523 | 40 | -8 (-16.7%) | High | 3.1% | |
| 45015 | 1341 | 36 | -53.2 (-41%) | High | 2.8% | |
| 45241 | 666 | 9 | -5(-35.7%) | | 1.4% | |
| 45053 | 399 | 8 | -55.6(-10%) | High | 0.8% | |
| 45005 | 297 | 5 | -3 (-37.5%) | | 0.6% | |
| 45064 | 189 | 7 | 4 (133.3%) | | 0.4% | |
| 45246 | 85 | 3 | 1 (50%) | | 0.2% | |
| 45062 | 73 | 0 | -2(-100%) | | 0.1% | |
| Cases lacking zip code information or from zip codes with too few cases | 1,306 | 18 | | | 2.7% | |
| Butler County (inclusive) | 48,750 | 1057 | -477 (-31.1%) | 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** in Butler County still meet the conditions set to be declared a **community of high transmission**. Cases are dropping in all but one zip-code. 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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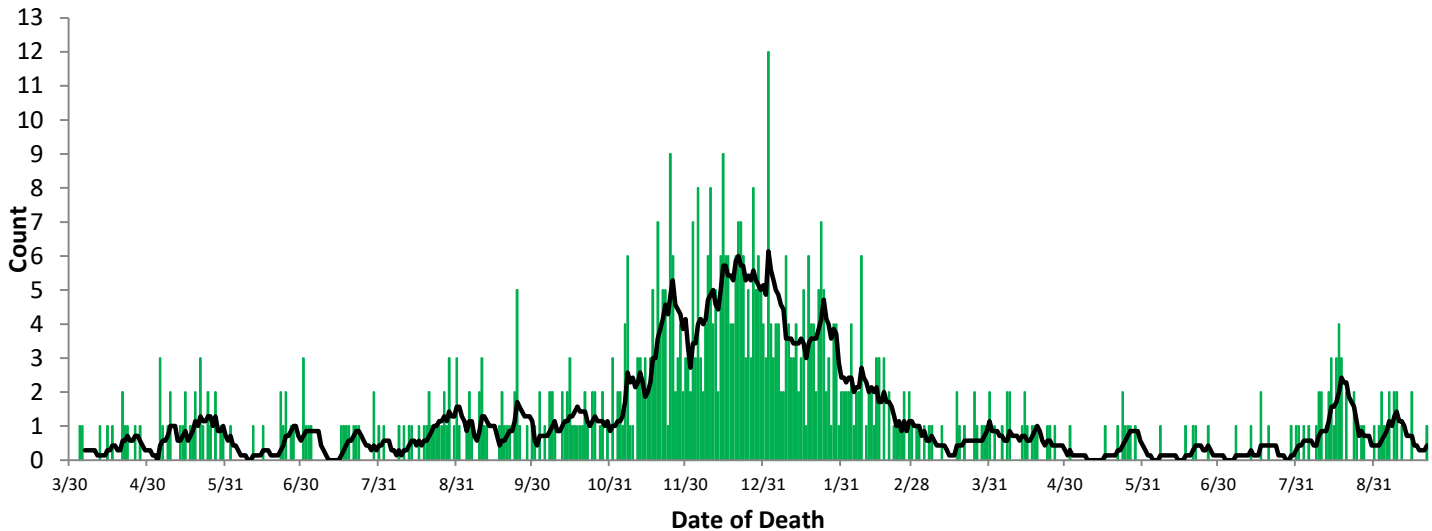
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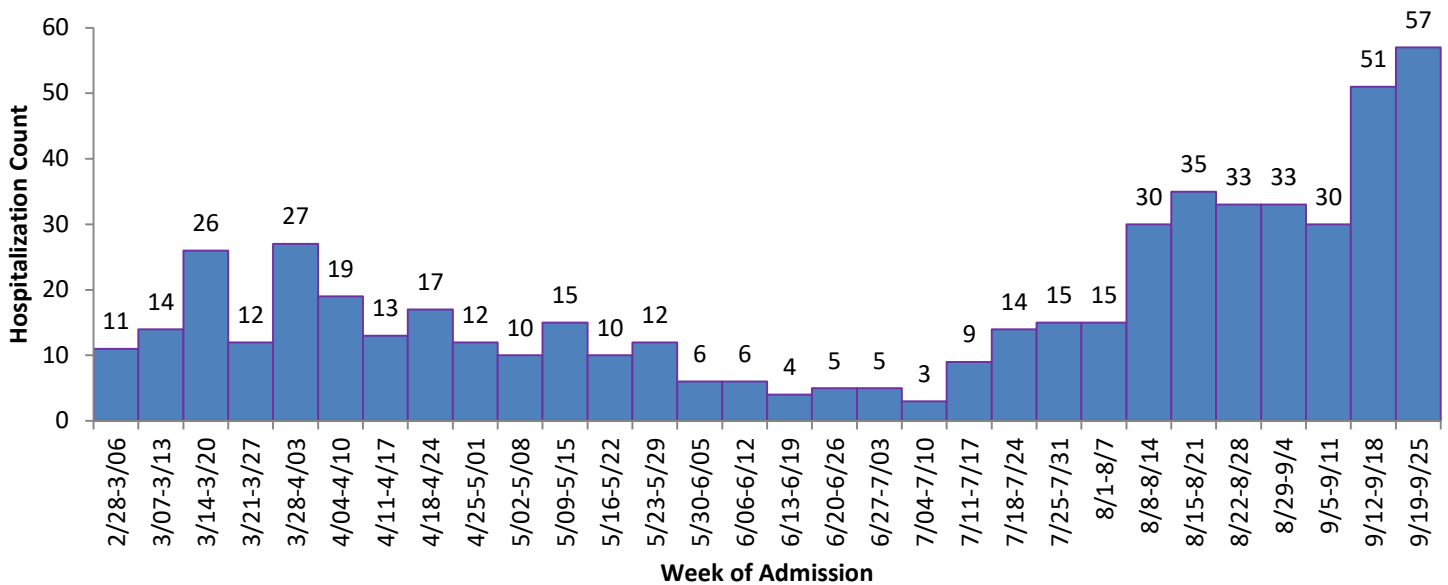
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Figure 3. Confirmed COVID-19 Deaths by date of death, 2020-21**



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. As evidenced by the 7 day moving average, deaths notably climbed. Typically deaths follow 3-4 weeks after surges and are recorded another 3-4 weeks later. 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. Hospitalizations are going up; this isn't unexpected as hospitalizations always lag behind disease onset.

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



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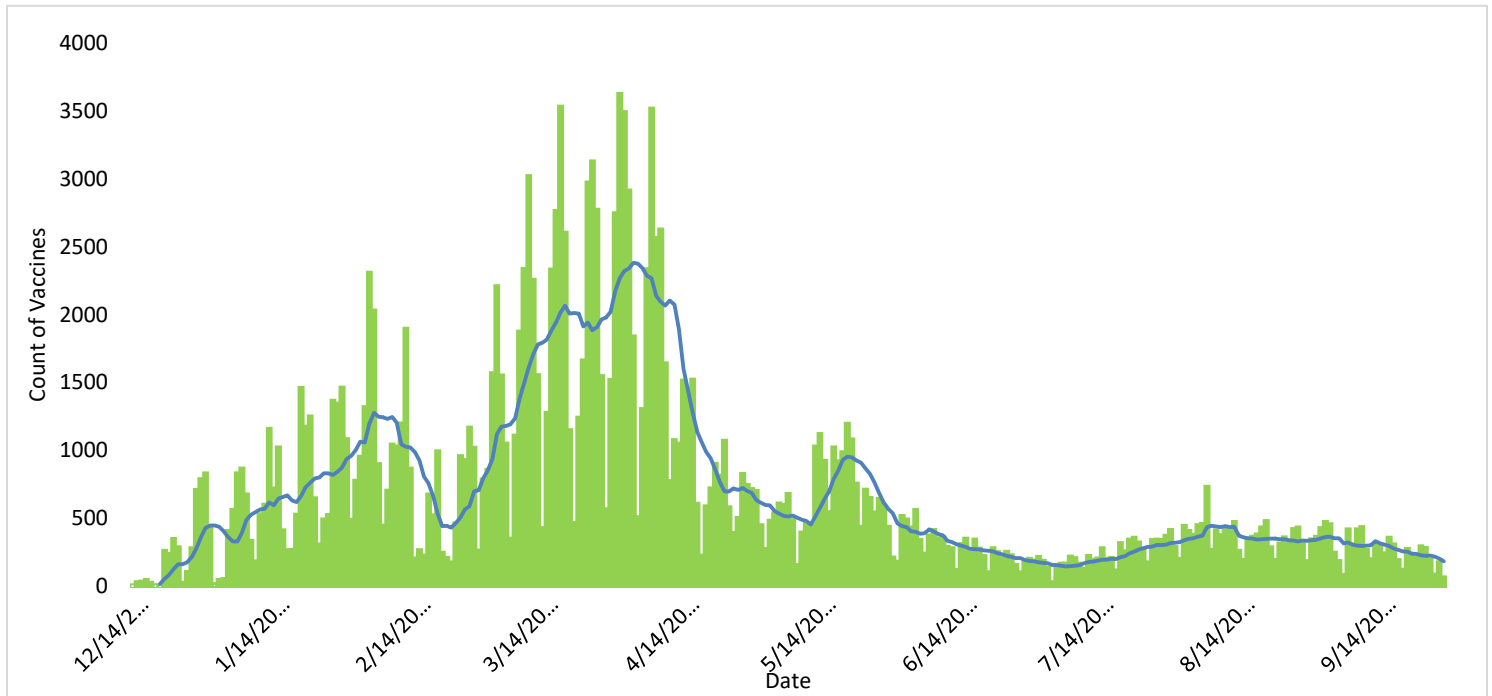
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Figure 5 shows vaccines started in Butler County by their date of administration. Table 3 shows the counts of new immunizations over the last two week period as well as total estimates by age group.

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.

Table 3. Vaccination Statistics by Age Group and Recent Immunizations

| Age Group (Years) | Estimated Count of Population # (%) | Count of People Vaccinated (%) as of 9/14/2021 | Count of People Vaccinated (%) as of 9/28/2021 | Count of People Vaccinated During the last two weeks | Percent Change from 9/14-9/28 | Estimated Count of People Unvaccinated |
|-------------------|-------------------------------------|--|--|--|-------------------------------|--|
| 12-14 | 15,069 (5%) | 5,683 (37.7%) | 5,889 (39.1%) | 206 | 3.6% | 9,180 |
| 15-17 | 15,838 (5%) | 6,845 (43.2%) | 7,018 (44.3%) | 173 | 2.5% | 8,820 |
| 18-20 | 20,735 (6%) | 8,311 (40.1%) | 8,533 (41.2%) | 222 | 2.7% | 12,202 |
| 21-24 | 23,864 (7%) | 10,622 (44.5%) | 10,879 (45.6%) | 257 | 2.4% | 12,985 |
| 25-34 | 48,008 (15%) | 22,572 (47.0%) | 23,188 (48.3%) | 616 | 2.7% | 24,820 |
| 35-44 | 45,659 (14%) | 27,648 (60.6%) | 28,220 (61.8%) | 572 | 2.1% | 17,439 |
| 45-54 | 46,344 (14%) | 29,381 (63.4%) | 29,804 (64.3%) | 423 | 1.4% | 16,540 |
| 55-64 | 48,369 (15%) | 35,820 (74.1%) | 36,159 (74.8%) | 339 | 0.9% | 12,210 |
| 65-74 | 36,132 (11%) | 29,809 (82.5%) | 29,960 (82.9%) | 151 | 0.5% | 6,172 |
| 75-84 | 17,318 (5%) | 14,322 (82.7%) | 14,389 (83.1%) | 67 | 0.5% | 2,929 |
| 85+ | 6,788 (2%) | 5,770 (85.0%) | 5,789 (85.3%) | 19 | 0.3% | 999 |

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

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Table 4. Cases Under Age of 17 by Zip –Code 07/01-9/11

| Zip Code | Cases since August 1st | Cases per 100,000 past week |
|----------|------------------------|-----------------------------|
| 45011 | 388 | 173.6 |
| 45069 | 230 | 265.9 |
| 45044 | 308 | 295.1 |
| 45014 | 199 | 245.4 |
| 45013 | 245 | 304.5 |
| 45050 | 91 | 453.0 |
| 45042 | 143 | 248.9 |
| 45056 | 71 | 400.9 |
| 45015 | 91 | 281.5 |
| 45241 | 25 | #VALUE! |
| 45067 | 134 | 242.1 |
| 45053 | 15 | 0.0 |
| 45246 | 5 | #VALUE! |

^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 but one 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 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 | 11,539 | 14,888 | 44% |
| 45067 | 5,959 | 6,998 | 46% |
| 45064 | 1,329 | 1,554 | 46% |
| 45015 | 4,988 | 4,851 | 51% |
| 45042 | 11,949 | 10,561 | 53% |
| 45053 | 1,626 | 1,181 | 58% |
| 45013 | 26,294 | 19,035 | 58% |
| 45011 | 37,844 | 26,168 | 59% |
| 45044 | 26,547 | 17,840 | 60% |
| 45050 | 6,159 | 3,035 | 67% |
| 45014 | 26,178 | 12,685 | 67% |
| 45069 | 34,267 | 10,648 | 76% |

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