



Butler County General Health District's 92nd COVID-19 Update (11/21/2021)

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

Butler County Residents, 2020-21

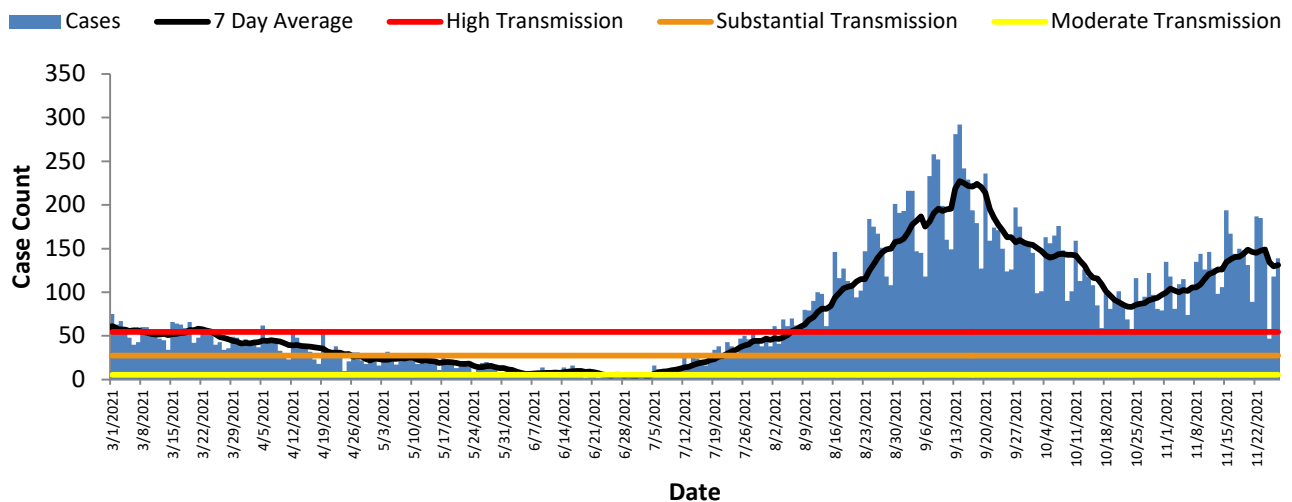
| | |
|--------------------------------------|---|
| Total # of Cases (11/21): | 56,553* |
| ODH verified Deaths (11/21): | 805** |
| Hospitalizations (11/21): | 2,422 |
| First Case Reported: | 3/11/2020 |
| Last Case Reported (so far): | 12/2/2021 |
| Confirmed Cases: | 46,886 |
| Probable Cases: | 9,667 |
| Age Range: | <1-103 |
| Median Age: | 38 |
| Mean Age: | 39.3 |
| Incidence (thru 11/21): | 14,760.6 per 100,000 |
| Prevalence (thru 11/21): | 14.8% of BC population |
| 7-Day Positivity Rate (12/2): | 15.6[#]% 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 | 239.3 per 100,000 | High Spread (over 100 per 100,000) |
| Positivity Rate | 15.58% 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 decreased over the Holiday week. However, it is the belief of this report that this was a pseudo-decrease. Please note that the positivity rate went up to 15.58%, one of the highest 7-day positivity rates seen in the entire pandemic. At the same time, CDC and CMS data show that testing volume decreased dramatically in the time period. This means that less people were getting tested, and a higher proportion of those getting tested were ill. Hospitalizations increased as well indicated that there was underreporting of non-hospitalized infections. This is typical for long weekends and holidays. We should expect an increase in cases in the following week to make up for the backlog of testing, and in the coming weeks we may see an increase in cases due to social gatherings.

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 12/2/2021. 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 EST 12/2/2021 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 12/2/2021 0800 EST accessible at <https://covid.cdc.gov/covid-data-tracker/#county-view>

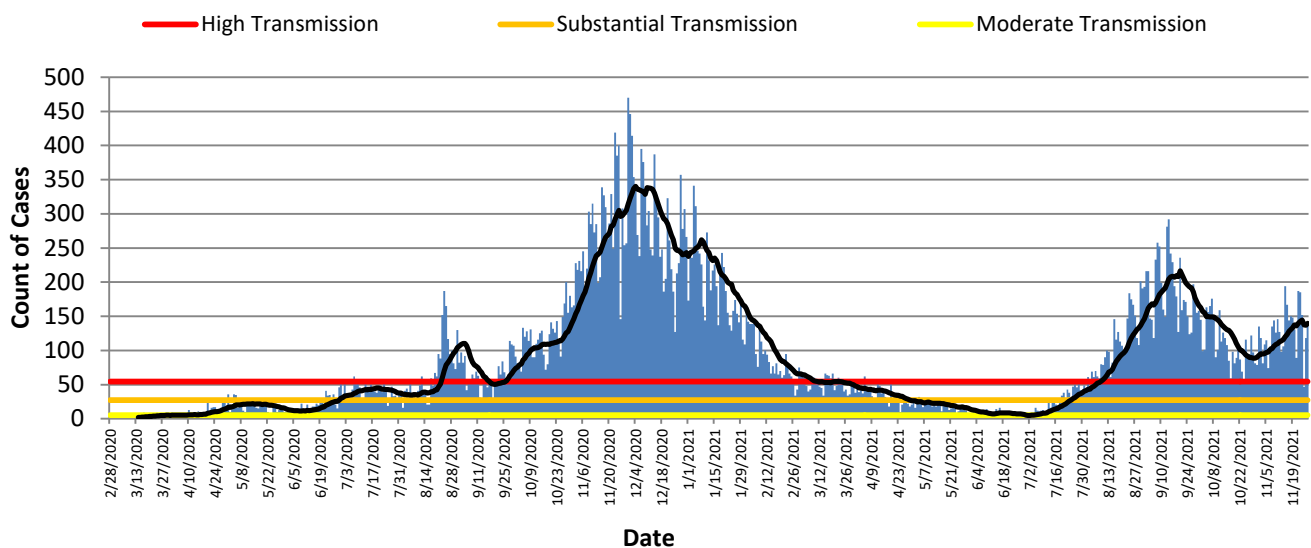
| Table 2: Total Reported* Cases by ZIP Code | | | | | | |
|---|-----------------|-------------------------|--|--------------|-------------|--|
| ZIP Code | Number of Cases | New Cases (11/14-11/21) | Change in cases from previous 7 days (11/07-11/13) | Transmission | % of Cases | |
| 45011 | 9864 | 163 | -80 (-32.9%) | High | 17.4% | |
| 45044 | 8010 | 143 | -7 (-4.7%) | High | 14.1% | |
| 45013 | 7576 | 174 | 13 (8.1%) | High | 13.3% | |
| 45069 | 6883 | 114 | -14(-10.9%) | High | 12.2% | |
| 45014 | 6860 | 104 | -2 (-1.9%) | High | 12.2% | |
| 45056 | 4262 | 29 | -16 (-35.6%) | High | 7.6% | |
| 45042 | 3943 | 57 | -8 (-12.3%) | High | 7.0% | |
| 45067 | 2438 | 39 | -3 (-7.1%) | High | 4.3% | |
| 45050 | 1745 | 31 | 7 (29.2%) | High | 3.1% | |
| 45015 | 1560 | 28 | -7 (-20.0%) | High | 2.7% | |
| 45241 | 766 | 9 | -4(-30.8%) | | 1.4% | |
| 45053 | 465 | 6 | 4(200.0%) | High | 0.8% | |
| 45005 | 343 | 5 | -2(-28.6%) | | 0.6% | |
| 45064 | 226 | 6 | 1 (20.0%) | | 0.4% | |
| 45246 | 94 | 0 | 0 (0%) | | 0.2% | |
| 45062 | 89 | 2 | -1(-33.3%) | | 0.2% | |
| Cases lacking zip code information or from zip codes with too few cases | 1,429 | 7 | | | 2.5% | |
| Butler County (inclusive) | 56,553 | 917 | -123 (-11.8%) | 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.

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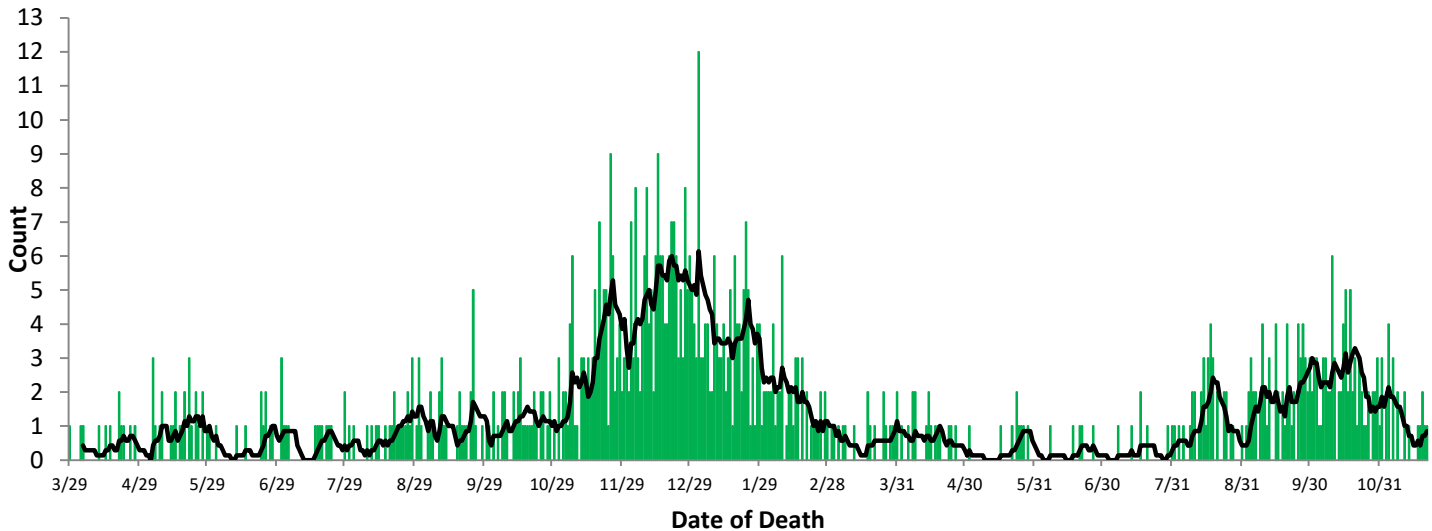
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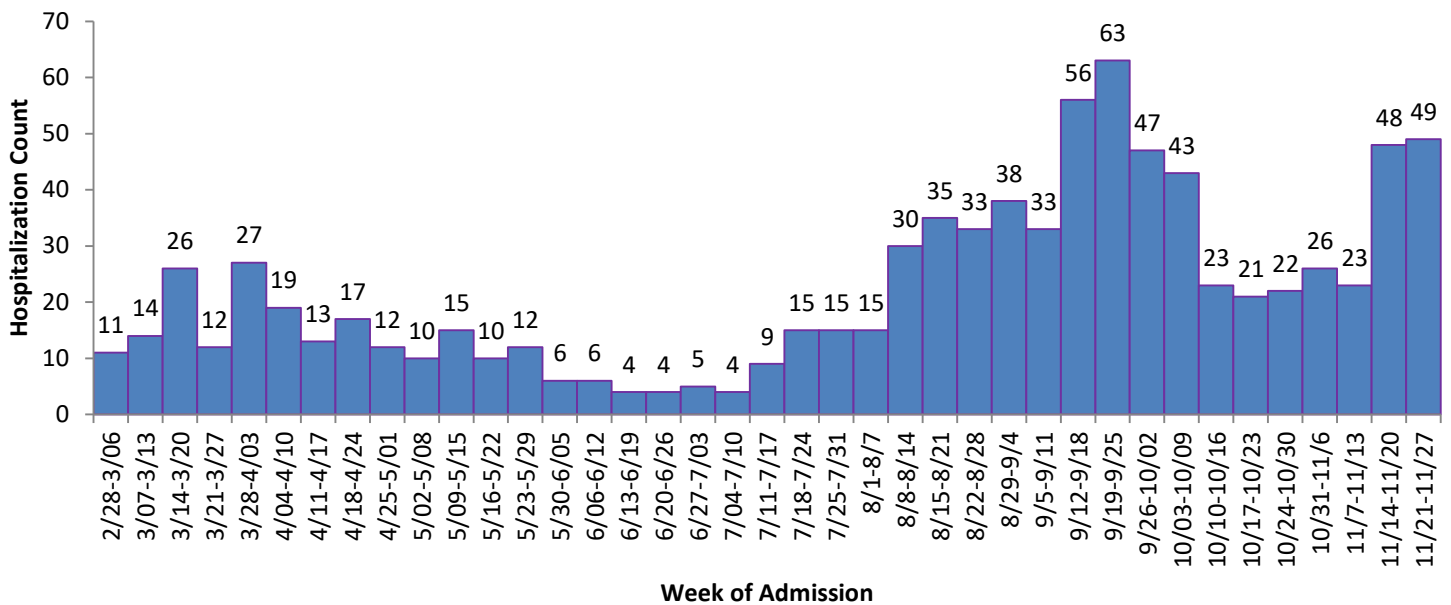
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Figure 3. Confirmed COVID-19 Deaths by date of death, 2020-21**



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 are now starting to rise, this is expected since cases began to rise approximately 4 weeks ago. In hospitalizations, there has been a dramatic increase. Not only is the increase in hospitalizations sharp and dramatic, but the case hospitalization rate indicates that there are many more infections in the community that did not get tested.

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



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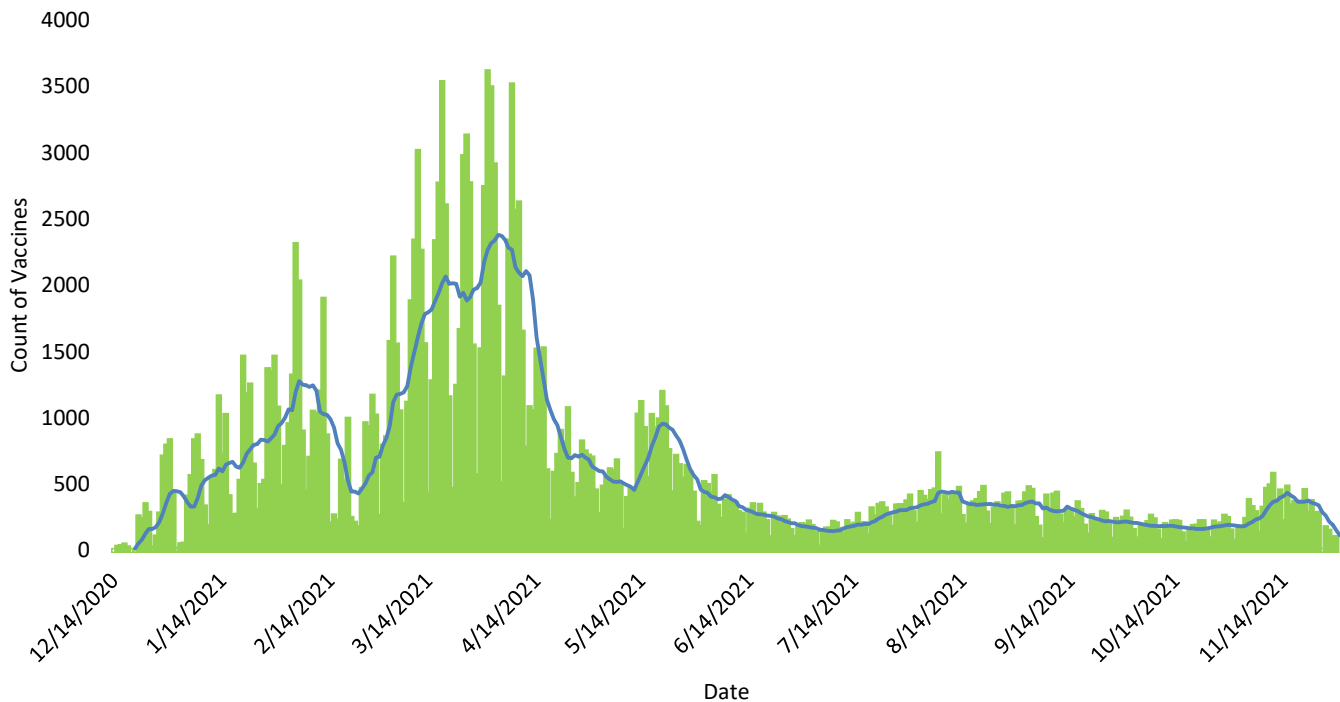
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Figure 5 shows vaccines started in Butler County by their date of administration. Table 3 shows the counts of new immunizations over the last two week period as well as total estimates by age group.

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.

| Age Group (Years) | | | | | | |
|-------------------|-------------------------------------|---|---|--|---------------------------------|--|
| Age Group (Years) | Estimated Count of Population # (%) | Count of People Vaccinated (%) as of 11/16/2021 | Count of People Vaccinated (%) as of 11/30/2021 | Count of People Vaccinated During the last two weeks | Percent Change from 11/16-11/30 | Estimated Count of People Unvaccinated |
| 5-11 | 33,689 (9%) | 2,638 (7.8%) | 4,665 (13.8%) | 2,027 | 76.8% | 29,024 |
| 12-14 | 15,069 (4%) | 6,097 (40.5%) | 6,149 (40.8%) | 52 | 0.9% | 8,920 |
| 15-17 | 15,838 (4%) | 7,300 (46.1%) | 7,363 (46.5%) | 63 | 0.9% | 8,475 |
| 18-20 | 20,735 (5%) | 9,035 (43.6%) | 9,097 (43.9%) | 62 | 0.7% | 11,638 |
| 21-24 | 23,864 (6%) | 11,748 (49.2%) | 11,957 (50.1%) | 209 | 1.8% | 11,907 |
| 25-34 | 48,008 (13%) | 24,767 (51.6%) | 25,112 (52.3%) | 345 | 1.4% | 22,896 |
| 35-44 | 45,659 (12%) | 29,626 (64.9%) | 29,959 (65.6%) | 333 | 1.1% | 15,700 |
| 45-54 | 46,344 (12%) | 30,907 (66.7%) | 31,169 (67.3%) | 262 | 0.8% | 15,175 |
| 55-64 | 48,369 (13%) | 36,943 (76.4%) | 37,206 (76.9%) | 263 | 0.7% | 11,163 |
| 65-74 | 36,132 (9%) | 30,787 (85.2%) | 31,002 (85.8%) | 215 | 0.7% | 5,130 |
| 75-84 | 17,318 (5%) | 14,997 (86.6%) | 15,156 (87.5%) | 159 | 1.1% | 2,162 |
| 85+ | 6,788 (2%) | 5,997 (88.3%) | 6,101 (89.9%) | 104 | 1.7% | 687 |

#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 08/01-11/21

| Zip Code | Cases since August 1st | Cases per 100,000 past week |
|----------|------------------------|-----------------------------|
| 45011 | 744 | 168.5 |
| 45069 | 459 | 217.5 |
| 45044 | 642 | 221.3 |
| 45014 | 389 | 153.4 |
| 45013 | 496 | 270.7 |
| 45050 | 139 | 264.3 |
| 45042 | 281 | 145.2 |
| 45056 | 141 | 367.5 |
| 45015 | 129 | 156.4 |
| 45241 | 49 | - |
| 45067 | 200 | 96.9 |
| 45053 | 29 | No cases reported |
| 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, most 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 | 53% | 57% | 47% | 14% |
| 45013 | 53% | 56% | 38% | 8% |
| 45014 | 62% | 66% | 51% | 11% |
| 45015 | 45% | 48% | 32% | 4% |
| 45042 | 50% | 53% | 33% | 6% |
| 45044 | 53% | 57% | 47% | 12% |
| 45050 | 61% | 65% | 53% | 15% |
| 45053 | 54% | 57% | 43% | 7% |
| 45056 | 43% | 45% | 43% | 29% |
| 45064 | 43% | 45% | 22% | 5% |
| 45067 | 41% | 44% | 33% | 6% |
| 45069 | 70% | 74% | 63% | 26% |

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