HOUSING INSECURITY INDICATORS &
POTENTIAL HOMELESSNESS ESTIMATES FOR
ARIZONA AND PIMA COUNTY
Updated with Week 50 Census Household Pulse
Survey Data – November 8th 2022
SUBMITTED BY:

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INTRODUCTION

This most recent survey wave contains multiple developments of concern. Despite hardship caused by inflation (which appears to moderating slowly), the positive macroeconomic situation has continued to hold steadily at both the national and state levels. In the previous survey wave, collected September 14th-26th 2022, the proportion of non-current renters grew to 13.2% (up from 9.2% in early August 2022). In the most recent survey, conducted October 5th-17th 2022, this proportion continued to rise modestly to 14.5%. In the September 2022 survey wave nearly half of non-current renters (49%) reported viewing eviction in the next two months as “very likely”. This was a dramatic increase in this proportion which was only 8.1% of non-current renters in the August 2022 survey. The intensity of this indicator decreased substantially in October with 23.5% of non-current renters viewing eviction as “very likely” in the next two months. That said, this still constitutes an alarmingly large number of Arizona renters, an estimated 31.6k households statewide, who view eviction as imminent. The vast majority of Arizona renters who are behind on their rent, 87%, were only 1 or 2 months behind on their payments. This may explain, in part, why 81% of non-current renters in Arizona have not applied for rental assistance. Mortgage holders in Arizona continue to be in a strong financial position. 6.2% reported being not current on mortgage payments (up from 2.8% in the previous survey) and of those that are not current 79% see a foreclosure in the next two months as either “not very likely” or “not likely at all”.

There is one piece of unambiguous good news in this report. Tucson rent prices appear to be slowing their rate of increase substantially in recent months. This is consistent with national trends and is likely a downstream consequence of recent interest rate hikes by the Federal Reserve. This slowdown is a welcome relief, but does not erase the 34-39% increases in average and median rents experienced over the past two years. Statewide 66% of Arizona renters reported an increase in their monthly rent in the last year and 44% reported an increase of $100 or more. This indicates that most renters have been directly impacted by recent increases in rent prices in Arizona.

Disparities in financial strain along the lines of household incomes have increased in this and recent survey waves. Measures of households not being current on rental payments and those experiencing great difficulty meeting spending needs indicate that lower-income households in Arizona are slipping behind (again). Nationwide, individuals reporting that they have serious disabilities are increasingly disproportionately likely to report being behind on rent payments. It appears that members of historically marginalized groups (especially people living with disabilities) are not benefiting from the improved economy as quickly on average as other demographic groups. Simultaneously, inflation and increases in rents appear to be straining the finances of lower-income households despite a historically low unemployment rate. Eviction filings in Pima County have been rising since April, and September had the largest monthly count of eviction filings observed since the onset of the pandemic. In October the total count of eviction filings fell 7% relative to the count in September, but remained at a post-eviction moratorium high. Eviction filings continue to rise in Maricopa County as well. Generally, a falling unemployment rate is usually associated with reductions in eviction filings, but here we observe rising eviction filings in the context of very low and stable unemployment. Without further analysis the causes of this locally are unclear, but the prime suspects are rising rents and the lingering aftermaths of the pandemic for the household budgets of lower-income households (via death, illness, and changes in employment and caretaking responsibilities).” Last, while data is not currently available on a sub-annual basis to track changes in the count of people experiencing homelessness in Pima County, figures from Maricopa’s HMIS data indicate a 9% increase in the total number of people experiencing homelessness in Maricopa County between January and September of this year.
Indicators of the Scope of the Problem: Did Not Pay Rent Last Month

Source: Census Household Pulse Surveys Weeks 1-21

Indicators of the Scope of the Problem: Not Currently Caught Up On Rent

The % not current on rent rose from 9.2% to 14.5% between early August and early-October.

Source: Census Household Pulse Survey –Weeks 22 – 50
Indicators of the Scope of the Problem: Not Caught Up On Mortgage Payments

This orange line is the three-wave moving average of mortgage holders not caught up on payments.

Source: Census Household Pulse Survey – Weeks 22 – 50

65%

Homeownership Rate in Arizona in 2021

Source: U.S. Census Bureau
Indicators of the Scope of the Problem: Likelihood of Leaving Due to Eviction Among Arizona Renters Not Caught Up on Rent

The trends in the graph below are based on questions only asked of Arizona renters not caught up on their rent: **14.5% of all AZ renter households – October 5th-17th 2022.**

Source: Census Household Pulse Survey – Weeks 22 – 50

The proportion seeing eviction as “somewhat or “very likely” remained elevated in the most recent wave.
Indicators of the Scope of the Problem: Months Behind on Rent and Rental Assistance

The following graph display responses to questions only asked of Arizona renters not caught up on their rent: **14.5% of all AZ renter households – October 5th-17th 2022.**

*Not actually 0%, but too small to estimate.*

This survey indicates that the vast majority of Arizona renters who are behind on their rent, 87%, are only 1 or 2 months behind on their payments. In addition, this survey also captured a noteworthy decrease in the proportion of non-current renters who reported having applied for rental assistance. In the previous report from mid-September, 49% of non-current renters had not applied for rental assistance, this proportion grew to 81% in the most recent wave.
Indicators of the Scope of the Problem: Increasing Rents

The Census Household Pulse survey has added a new question for renter-occupied households: whether their monthly rent has changed in the past 12 months. 66% of Arizona renters reported an increase in their monthly rent in the last year and 44% reported an increase of $100 or more. This indicates that most renters are being directly impacted by rising rent prices in Arizona.

There is some unambiguous good news, which is that rents in Tucson appear to be slowing in their rate of increase in recent months. This is likely a direct, but downstream, impact of recent increases in interest rates pursued by the Federal Reserve to combat inflation. The chart below displays recent trends in average or median rents as measured by various real-estate marketplace companies. Average or median rents have risen 32-35% in Tucson between September of 2020 and September 2022 (increases that have not been reduced by the recent slowdown in the rate of increase in rents). These summary measures are informative, but they don’t provide a grounded real dollar sense of that is happening with rents (as people don’t rent an average or median apartment). In the next graph below, data from Zumper provides average rents in Tucson by unit size in current dollars (not adjusted for inflation). Adjusting for inflation (adjusting rents to 2022 dollars) the cost of rent in Tucson between August 2020 and August 2022 rose: 19% for studios, 16% for 1-bedroom units, 23% for 2-bedroom units, 13% for 3-bedroom units, and 22% for 4-bedroom units.
Indicators of the Scope of the Problem: Leaving Due to Foreclosure Among Arizona Mortgage Holders Not Caught Up on Payments

The trends in the graph below are based on questions only asked of Arizona mortgage holders not caught up on their payments: 6.2% of all AZ mortgage holding households – October 5th- 17th 2022.

This most recent survey wave captures a substantial decrease in the share of non-current mortgage holders who report that foreclosure is “very likely”. Great news.
Indicators of the Scope of the Problem: Estimates of Rental Shortfall—ARIZONA

Estimates of the number of individuals behind on rent and the size of their rental debts (at both the state and county level) have been made available in the National Equity Atlas data tool. This tool is produced by PolicyLink and the USC Equity Research Institute. The methodology used to produce these estimates is provided in the appendix to this report. These estimates rely on Census Household Pulse survey data and the estimates below are based on the data collected as a part of Wave 50 of the survey conducted October 5th – 17th 2022.

**National Equity Atlas – Estimates based on Wave 50 of the Census HPS**

<table>
<thead>
<tr>
<th>Estimated Number of Arizona Households Behind on Rent</th>
<th>Estimated Total Rental Debt Statewide</th>
<th>Estimated Rental Debt per Household</th>
</tr>
</thead>
<tbody>
<tr>
<td>95,000</td>
<td>$117.6 million</td>
<td>$1,250</td>
</tr>
</tbody>
</table>

These National Equity Atlas estimates from early-August only provide an estimate of the number of Arizonans not current on their rent and an estimate of the extent of their rental debt. These estimates are based on Wave 50 data of the Census Household Pulse Survey. The Census Household Pulse Survey asks if renting households are current on their rent. In the most recent wave of the survey, Week 50 conducted October 5th – 17th 2022, 14.5% of Arizona renter households reported not being current on their rent payments. There were 927,771 renter-occupied units in Arizona in 2020, according to a Census American Community Survey (1-year) estimate.

14.5% of 927,771 = 134,527 AZ renter households who are not current on their rent payments.

Not all, and perhaps only a minority, of households reporting that they are not current on rent payments will actually experience an eviction. These households were then asked about their perception of how likely it is that they will have to leave their home due to eviction in the next two months. 23.5% of these households that are not current on their rent reported being “very likely” to be evicted, while another 27.9% said this is “somewhat likely”.

23.5% of 134,527 = 31,614 AZ renter households who think it is “very likely” that they will be evicted in the next two months.

51.4% of 134,527 = 69,147 AZ renter households who think it is either “somewhat likely” or “very likely” that they will be evicted in the next two months.
Indicators of the Scope of the Problem: Estimates of Rental Shortfall—PIMA COUNTY

The National Equity Atlas data tool also provides county level estimates. The estimates below are also based on the data collected as a part of Wave 50 of the Census Household Pulse survey conducted October 5th – 17th 2022.

**National Equity Atlas – Estimates based on Wave 50 of the Census HPS**

<table>
<thead>
<tr>
<th>Estimated Number of Pima County Households Behind on Rent</th>
<th>Estimated Total Rental Debt Countywide</th>
<th>Estimated Rental Debt per Household</th>
</tr>
</thead>
<tbody>
<tr>
<td>18,160</td>
<td>$18.6 million</td>
<td>$1,000</td>
</tr>
</tbody>
</table>

These National Equity Atlas estimates from early-August only provide an estimate of the number of Pima County renters not current on their rent and an estimate of the extent of their rental debt. These estimates are based on Wave 50 data of the Census Household Pulse Survey. The Census Household Pulse Survey asks if renting households are current on their rent. In the most recent wave of the survey, Week 50 conducted October 5th – 17th 2022, 14.5% of Arizona renter households reported not being current on their rent payments. There were 151,943 renter-occupied units in Pima County in 2020, according to a Census American Community Survey (1-year) estimate.

**14.5% of 151,943 = 22,032 Pima County renter households** who are not current on their rent payments.

Not all, and perhaps only a minority, of households reporting that they are not current on rent payments will actually experience an eviction. These households were then asked about their perception of how likely it is that they will have to leave their home due to eviction in the next two months. 23.5% of these households that are not current on their rent reported being “very likely” to be evicted, while another 27.9% said this is “somewhat likely”.

**23.5% of 22,032 = 5,178 Pima County renter households** who think it is “very likely” that they will be evicted in the next two months.

**51.4% of 22,032 = 11,342 Pima County renter households** who think it is either “somewhat likely” or “very likely” that they will be evicted in the next two months.
Eviction Filings and Writs Issued

The Supreme Court allowed a lower court decision to end the CDC’s extension of the eviction moratorium on the evening of August 26th, 2021. Below the total count of eviction filings and writs issued in Pima County is provided for August 2021 to October 2022, by month. Eviction filings have been rising since April, and September had the largest monthly count of eviction filings observed since January of 2021. In October the total count of eviction filings fell 7% relative to the count in September, but remained at a post-eviction moratorium high. Generally, a falling unemployment rate is usually associated with reductions in eviction filings, but here we observe rising eviction filings in the context of very low and stable unemployment. Without further analysis the causes of this locally are unclear, but the prime suspects are rising rents and the lingering aftermaths of the pandemic for household budgets (via death, illness, and changes in employment and caretaking responsibilities).

**Source:** Pima County Consolidated Justice Court
Homelessness
The chart below displays trends in sheltered, unsheltered, and total homelessness for Pima County as captured in the annual Point in Time (PIT) counts for the years 2010-2022. The number of people experiencing homelessness in Pima County has increased over the last two years. Unfortunately, the usual “street count” portion of the PIT, which surveys individuals experiencing unsheltered homelessness, was cancelled in both 2021 and 2022 due to the pandemic. The figure for the count of people experiencing homelessness in 2021 was estimated using a statistical procedure based on characteristics of communities similar to Pima County. In this instance, characteristics of Pima County were used to estimate the count of people experiencing unsheltered homelessness, but no data from local data sources on people experiencing homelessness were involved. In 2022, based on guidance from HUD, a different technique was used drawing information from the local Homeless Management Information System (HMIS) to generate a count of people experiencing unsheltered homelessness in Pima County. HMIS and the PIT count are very different in their implementation and HMIS captures substantially more individuals and families than are counted in the PIT count. As a result, some significant portion of the increase in the count of people experiencing unsheltered homelessness is due to this change in methodology. To be clear, all of the people counted in the HMIS data for 2022 are real people experiencing unsheltered homelessness. The issue is that the number of people who would have been “seen” through the lens of a traditional PIT count would likely have been substantially lower.

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1 A small “surge count” was conducted in 2022 and informs the 2022 subpopulation estimates, but was not used to generate the total count of people experiencing unsheltered homelessness.
2 A multi-level modeling approach was used to estimate the associations between CoC-level economic factors and year-to-year changes in the rate of unsheltered homelessness. These model results were then used to predict the rate of unsheltered homelessness in 2021 in Pima County based on the levels of 5 independent variables (unemployment, poverty, the rental vacancy rate, median rent, and the homeownership rate) in Pima County in 2020.
In order to get a sense of how much of this increase is due to methodology changes versus real increases in the number of people experiencing homelessness, I estimated the projected count of people experiencing unsheltered homelessness in 2022 based on the same statistical methodology used to estimate the count in 2021. These two estimates are provided in the table above in red. We can now compare two different approaches to measuring the number of people experiencing unsheltered homelessness. The official count provided to HUD based on the (HUD recommended) HMIS approach, suggests a 68% increase in the total count of people experiencing homelessness in Pima County between 2020 and 2022. If we used the statistically estimated unsheltered count for 2022, then the increase in the total count of people experiencing homelessness over this two-year period is 24%. The data used to generate these statistical estimates is information on communities for the years 2008-2018. It is very likely that these statistical estimates are understating the count of people experiencing unsheltered homelessness because of the extremely unique circumstances of the pandemic and the accompanying severe recession (which would not be able to be modeled with these data). Consequently, using the best currently available data the increase in the number people experiencing homelessness in Pima County from 2020 and 2022 is likely somewhere between 24-68%.

A comparison with Maricopa County is helpful here, as Maricopa cancelled their 2021 PIT but conducted their 2022 as usual (to my knowledge). The graph below displays trends in the counts of people experiencing homelessness in Maricopa County, which experienced a 22% increase in the total number of people experiencing homelessness between 2020 and 2022. The size of this increase suggests that the most likely magnitude of change in homelessness in Pima County is on the lower end of the 24-68% range suggest by these different approaches.

These trends are based on data collection efforts that were most recently conducted in January of 2022. What has unfolded in regards to homelessness over this past year? While data is not currently available on a sub-annual basis to track changes in the count of people experiencing homelessness in Pima County, figures from Maricopa’s HMIS data indicate a 9% increase in the total number of people experiencing homelessness in
Maricopa County between January and September of this year. The same information from the “balance of state” (“BOS” which is all of Arizona less Pima and Maricopa counties) also indicates an increase in homelessness since January of 2022.

The Road Ahead

We are currently experiencing modest job growth at both the national and state level. In the medium-term, most economists are expecting that recent interest rate increases by the Federal Reserve are likely to cool (or reverse) this rate of growth. The households at high risk of experiencing a housing disruption in the coming months remain disproportionately lower income, households of color, and households with members with disabilities. I remain concerned about the likelihood of homelessness among those households that experience housing disruptions,
especially as rents rise, the affordable housing stock continues to shrink, and considering the fact that not everyone can take advantage of enhanced employment opportunities.

Source: Calculated Risk Finance & Economics

Source: UA Economic and Business Resource Center

Percent Job Losses in Post WWII Recessions

Source: Calculated Risk Finance & Economics

Arizona Initial Claims for Unemployment Insurance

Source: UA Economic and Business Resource Center
Income Disparities

The COVID-19 recession has been uniquely unequal in its impacts, hitting lower income workers and households particularly hard. Worse, the recovery from these disproportionate impacts has also been skewed towards those with more resources, resulting in the so-called “K”-shaped recovery.

Source: Census HPS Week 14 – Sept 2nd– 14th 2020

Census HPS Week 27 – March 17th– 29th 2021

Source: Census HPS Week 49 – Sept 14 – 26th 2022.

Census HPS Week 50 – Oct 5 – 17th 2022.
Consequently, lower-income households are at particularly high risk of housing insecurity and homelessness during this economic recovery.

Racial/Ethnic Disparities

The current recession is also disproportionately impacting individuals and communities of color, trends evident in both losses of employment income and housing insecurity.


Share of prime-age adults who have jobs

Employment-population ratio of those 25-54 years old by race or ethnicity

Source: Census Household Pulse Survey – Week 49

Census Household Pulse Survey – Week 50

Source: Census Household Pulse Survey – Week 49

Census Household Pulse Survey – Week 50
Those behind on rent are overwhelmingly low-income households who experienced job and income losses during the pandemic.

Characteristics of Renters Behind on Rent, Arizona

- People of Color: 56%
- Low Income: 77%
- Unemployed: 56%
- Households with Children: 55%

Disparities by Ability

Across the categories of ability/disability tracked in the Census Household Pulse Survey (difficulty seeing, hearing, remembering or concentrating, and walking or climbing stairs, etc.) substantially higher percentages of individuals with difficulties in these areas reporting being not current on their rent payments. These data are for the United States at large, as the state-level subpopulations are too small to measure reliability at the state level.
Census Household Pulse Survey – Week 49 & 50
Appendix: National Equity Atlas Rent Debt Methodology

This document describes our current methodology for estimating the number of renter households behind on rent and the total and per household rent debt for the United States and selected counties, regions, and states, as presented in the Rent Debt Dashboard.

Our estimates use the share of households behind on rent from the Census Household Pulse survey and the median contract rent paid by households from the American Community Survey, both broken down by income bracket, to determine the total amount of monthly rent owed by households behind on rent. We then multiply these monthly figures by the average number of months that households are in arrears to estimate total rent debt. We assume that approximately 25 percent of behind households are one month behind, 28 percent are two months behind, 12.5 percent are three months behind, and 5.5 percent have not paid for the entire pandemic. We use three data sources:

1. Household rent and income data from the 5-year 2019 American Community Survey (ACS) summary file and microdata.
2. Data on late payment of rent from the U.S. Census Bureau’s Household Pulse Survey for states and the 15 largest metros. The Pulse survey is updated every two weeks.
3. Distribution of rent arrears estimates derived from the University of Southern California’s Center for Economic and Social Research’s “Understanding Coronavirus in America” panel survey, which has been collected between April 2020 and March 2021.

The process and data are further described below:

Household Pulse Survey data is filtered to include only renting households paying a non-zero rent in the most recent survey wave. Those households are assigned a rent status based on their response to the survey question: “Is this household currently caught up on rent payments?.” The percentage of households in rent arrears – the “behind rate” – is calculated by household income category and by geography. Households are initially grouped into three income categories: those with an annual income less than $50,000, those with an annual income between $50,000 and $100,000, and those with an annual income greater than $100,000. Pulse estimates are available for all 50 states and for the 15 largest metropolitan regions in the US. For geographies where regional data are available, we use regional estimates of behind rates; for geographies where regional data are not available, we use statewide estimates of behind rates. If the unweighted count of observations for a given income category within a metropolitan region falls below 100 in the most recent Pulse survey wave, statewide behind rates are used for households in that income category in that metropolitan region instead. If unweighted counts of statewide observations fall below 100 for either of the top two income categories but the two categories combined have more than 100 observations, a single rate is used for both of the categories. If unweighted counts of statewide observations fall below 100 for the top two income categories combined or for the lowest income category, a single behind rate is used for all households in the state. If a state has fewer than 100 unweighted observations, national behind rates are used and rent debt estimates are not calculated for that state.

The estimates of the percent of households behind on rent by income bracket are necessarily broad, in geographic terms, given data availability in the Household Pulse Survey. However, to estimate monthly rent debt for households that are behind, they are applied to estimates of median monthly contract rent by income bracket that are geographically specific (i.e. based on the same cities and counties for which the rent debt estimates are ultimately

3 Source: https://nationalequityatlas.org/rentdebtmethodology
reported). We use median rent (rather than mean rent) based on the assumption that renters who are behind on rent are likely to have lower monthly rent than the average for each income bracket. Estimating median monthly contract rent by income bracket was straightforward for states, regions, and larger cities and counties as they could be drawn directly from the ACS microdata. For smaller cities and counties not identified in the ACS microdata, however, we developed an approach that relied primarily on the ACS summary file with some inputs from the microdata.

Specifically, we drew information from Table B25122 of the ACS summary file on the number of households by income bracket gross rent bracket and utilized a Pareto interpolation procedure to estimate median monthly gross rent for each of the aforementioned income brackets in each geography. This procedure required an upper bound for the top gross rent category ($2,000 or more), which is not provided in Table B25122. To adjust our estimate to reflect median contract rent (rather than median gross rent, which includes the cost of utilities), we also needed an adjustment ratio to apply to our resulting Pareto estimates.

We estimated these data inputs for each of the smaller city and county geographies using ACS microdata for the Public Use Microdata Area (PUMA) or PUMAs they intersect. This was accomplished using population-based crosswalks we developed between 2010 PUMAs and 2010 counties, and between 2010 PUMAs and 2010 census-defined places (which include all cities), by taking a population-weighted average of the PUMA-level measures for each smaller city and county geography. Following this approach, we estimated the maximum gross rent, median gross rent, and median contract rent for overall and for each income bracket. The estimated maximum gross rent is inputted into the Pareto interpolation procedure to estimate median gross rent by income bracket for each of the smaller city and county geographies. Those initial estimates were then adjusted to reflect median contract rent by multiplying by the ratio of median contract to gross rent from the PUMA-based estimates. The approach seeks to utilize as much geographically-specific information from the ACS summary file as possible and substitutes in less geographically-specific information from the ACS microdata as necessary.

We assume that differences between reported rents from the 2019 5-year ACS (which reflect a 2015-2019 average expressed in inflation-adjusted 2019 dollar values) and 2020 actual rents are negligible for households that have not moved in 2020, as those households were likely locked into pre-pandemic leases and/or month-by-month agreements with fixed/stable rents. The total amount of monthly rent owed by behind households is then calculated by multiplying estimated median monthly rent for each income category by the number of Pulse households in that income category and summing those values for each geography (city or county). Regional and statewide estimates are produced by summing estimates from their constituent county geographies. These figures are converted to total rent debt by adjusting based on our estimate that households were, on average, 3.75 months in arrears. There is no source of data on the distribution of rent arrears among behind households, so we estimated this distribution based on the University of Southern California (USC) “Understanding Coronavirus in America” panel survey from April 2020 through March 2021. Restricting the sample to renter households that were recorded at some point during each of the twelve months from April 2020 to March 2021 and determining a household’s behind status in each month based on their response closest to the end of the month, we measure how many months each household reports not paying their rent. Using this method, we found that approximately 25 percent of behind households are one month behind on rent, 28 percent are two months behind, 12.5 percent are three months behind, and 5.5 percent have not paid for the entire pandemic.

These estimates do not take into account the requirement of the California eviction moratorium passed in August 2020 (AB 3088) that Covid-19-affected tenants must pay 25 percent of rent accrued between September 1, 2020 and January 31, 2021 by January 31, 2021 to be protected from eviction. This incentive likely decreases the amount of arrears.