

# Urban and Regional Migration Estimates, Third Quarter 2023 Update Stephan D. Whitaker December 19, 2023

This Data Brief updates the figures that appeared in the Cleveland Fed District Data Brief "Urban and Regional Migration Estimates: Will Your City Recover from the Pandemic?" with data for 2023 Q3 for all series. The first series measures the net migration of people to and from the urban neighborhoods of major metro areas (Figure 1). The second series covers all neighborhoods but breaks down net migration to other regions by four region types: (1) high-cost metros, (2) affordable, large metros, (3) midsized metros, and (4) small metros and rural areas. The metro area definitions used here are the combined statistical areas, which group adjacent regions such as Cleveland, Akron, and Canton together.

# Recent trends in urban neighborhood migration

- With the 2023 Q3 estimate, net migration out of urban neighborhoods across the US continued its rapid return to prepandemic levels. If the recent slowing of net outmigration continues in the fourth quarter, the moving average of net outmigration will be just over 100,000 people per quarter by the end of 2023. This would place it below the pace that the prepandemic trend would have predicted and almost equal to the level in 2019 Q4.
- New York, Los Angeles, Chicago, Boston, Philadelphia (Figure 2) and San Diego (Figure 3) all displayed remarkable slowing of net outmigration from their urban neighborhoods.
- The net outmigration from urban neighborhoods slowed in 24 of the 33 major metro areas.

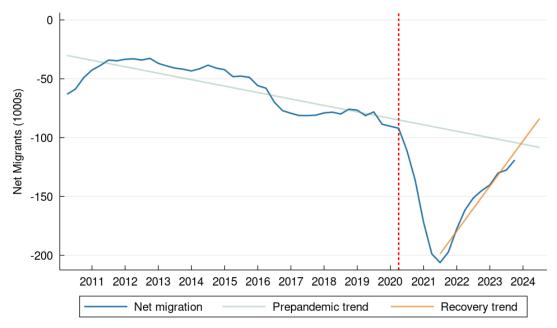
The views expressed in this report are those of the author and are not necessarily those of the Federal Reserve Bank of Cleveland or the Board of Governors of the Federal Reserve System.

This work is licensed under a <u>Creative Commons Attribution-NonCommercial 4.0 International License</u>. This paper and its data are subject to revision; please visit <u>ClevelandFed.org</u> for updates.



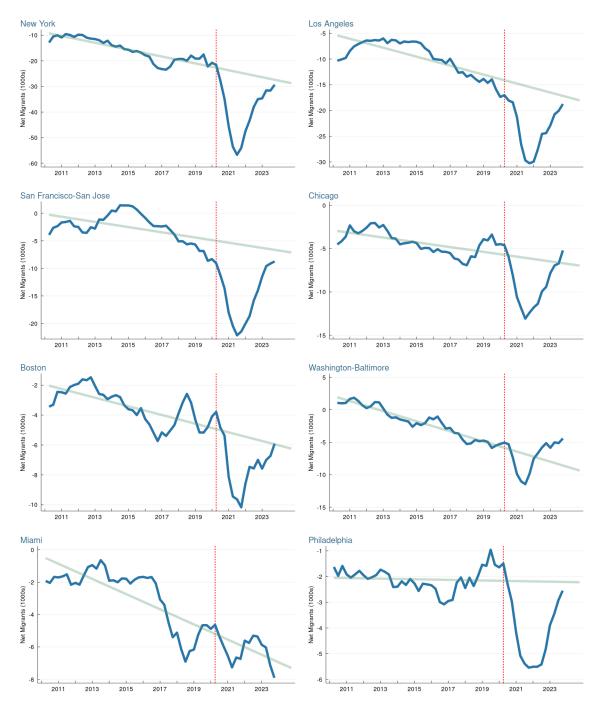
# Net Migration to and from Urban Neighborhoods

Figure 1: Four Quarter Moving Average of Quarterly Net Migration from/to Urban Neighborhoods



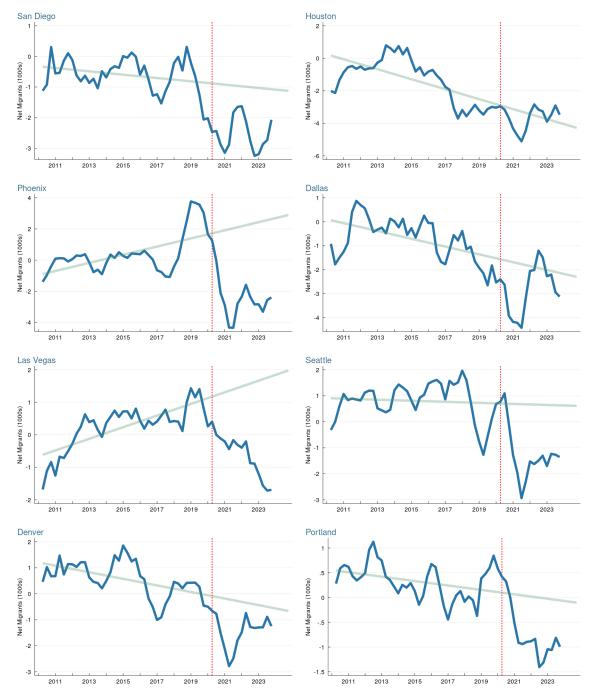
The red vertical line indicates the beginning of the pandemic. The prepandemic trend is the line that best fits the prepandemic (2010:Q1 to 2019:Q4) observations. The recovery trend is the line that best fits the 2021:Q2 to 2023:Q3 observations. Sources: Federal Reserve Bank of New York/Equifax Consumer Credit Panel, US Census Bureau, and author's calculations.

Figure 2: Four Quarter Moving Average of Quarterly Net Migration from/to Urban Neighborhoods, Urban Populations 13.3 Million to 2.2 Million



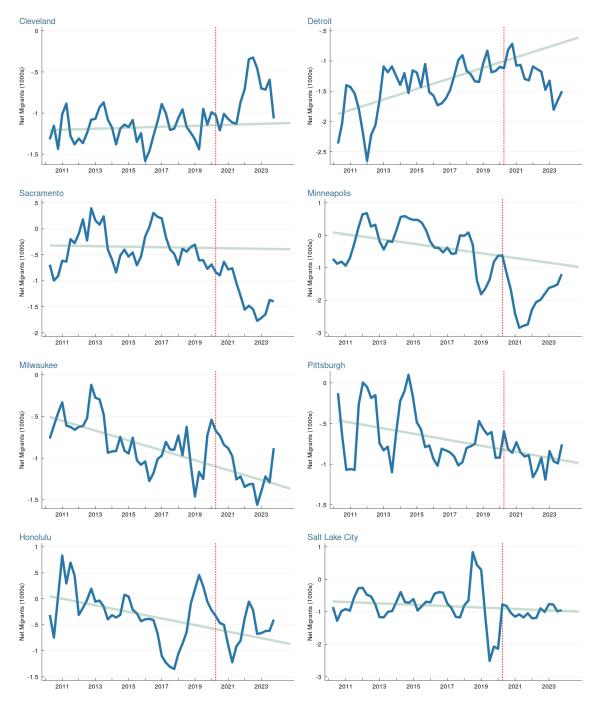
The red vertical line indicates the beginning of the pandemic. The green line is the prepandemic (2010: Q1 to 2019: Q4) trend. Sources: Federal Reserve Bank of New York/Equifax Consumer Credit Panel, US Census Bureau, and author's calculations.

Figure 3: Four Quarter Moving Average of Quarterly Net Migration from/to Urban Neighborhoods, Urban Populations 1.4 Million to 645,000



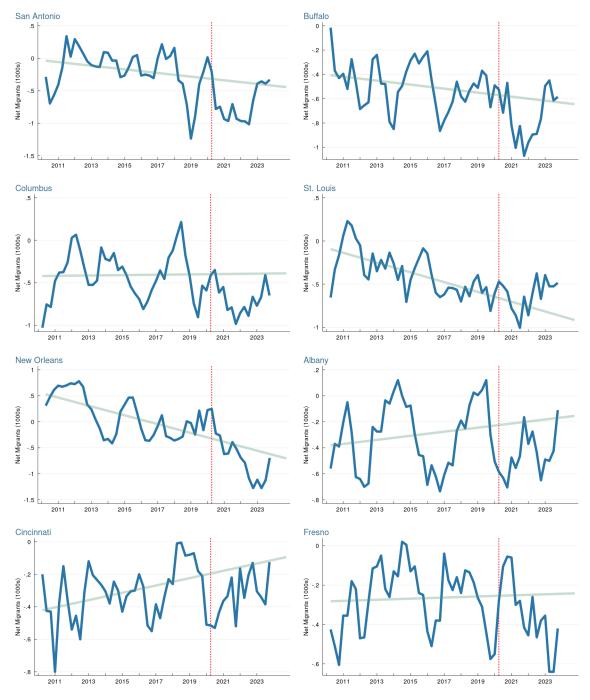
The red vertical line indicates the beginning of the pandemic. The green line is the prepandemic (2010 Q1 to 2019 Q4) trend. Sources: Federal Reserve Bank of New York/Equifax Consumer Credit Panel, US Census Bureau, and author's calculations.

Figure 4: Four Quarter Moving Average of Quarterly Net Migration from/to Urban Neighborhoods, Urban Populations 628,000 to 393,000



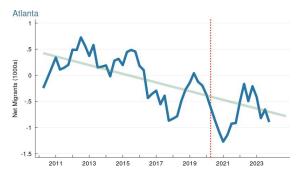
The red vertical line indicates the beginning of the pandemic. The green line is the prepandemic (2010 Q1 to 2019 Q4) trend. Sources: Federal Reserve Bank of New York/Equifax Consumer Credit Panel, US Census Bureau, and author's calculations.

Figure 5: Four Quarter Moving Average of Quarterly Net Migration from/to Urban Neighborhoods, Urban Populations 343,000 to 254,000



The red vertical line indicates the beginning of the pandemic. The green line is the prepandemic (2010:Q1 to 2019:Q4) trend. Sources: Federal Reserve Bank of New York/Equifax Consumer Credit Panel, US Census Bureau, and author's calculations.

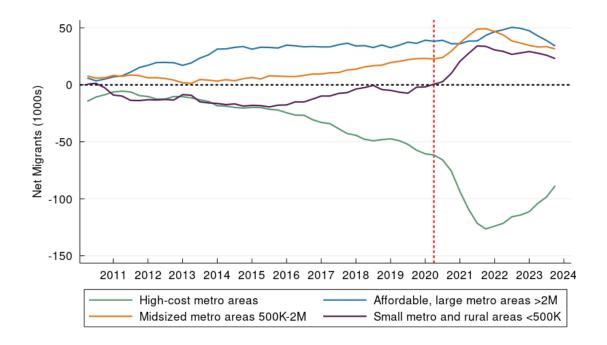
Figure 6: Four Quarter Moving Average of Quarterly Net Migration from/to Urban Neighborhoods, Atlanta (Urban Population 251,000)



The red vertical line indicates the beginning of the pandemic. The green line is the prepandemic (2010:Q1 to 2019:Q4) trend. Sources: Federal Reserve Bank of New York/Equifax Consumer Credit Panel, US Census Bureau, and author's calculations.

## **Net Regional Migration**

Figure 7: Four Quarter Moving Average of Quarterly Net Migration from/to Four Types of Regions



The red vertical line indicates the beginning of the pandemic. Sources: Federal Reserve Bank of New York/Equifax Consumer Credit Panel, US Census Bureau, and author's calculations.

## Recent trends in migration between regions

- Net migration out of six of the most populous metro areas (New York, Los Angeles, Chicago, Washington-Baltimore (Figure 8), San Francisco, and Boston (Figure 9)) declined. With notable consistency, almost all of the net flows from these metros to the other types of regions slowed.
- The slowing movements out of the high-cost metros were reflected in weaker net migration for Dallas (Figure 9), Miami and Atlanta (Figure 10), Phoenix (Figure 11), Orlando (Figure 12), Tampa (Figure 13), San Antonio (Figure 14), and Austin and Nashville (Figure 16).

Figure 8: Four Quarter Moving Average of Quarterly Net Migration from/to All Other Regions (left) and Four Types of Regions (right), Metro Areas with Total Populations 23.5 Million to 9.7 Million

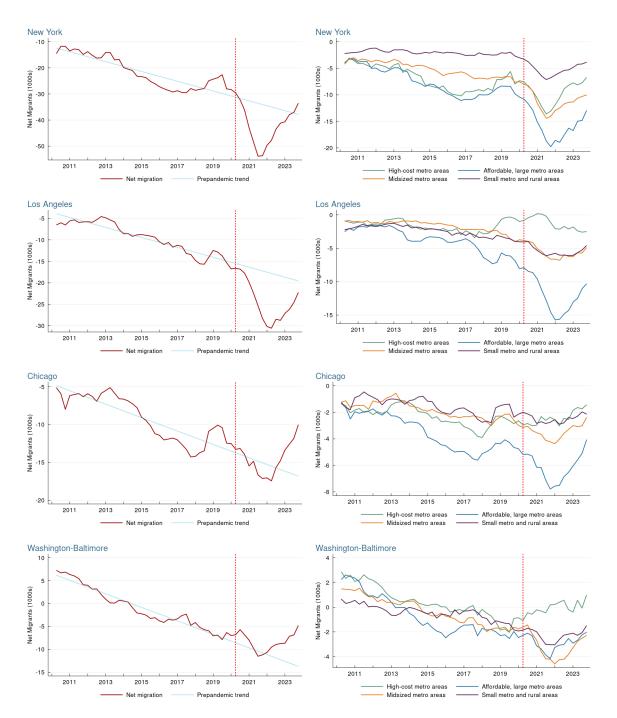


Figure 9: Four Quarter Moving Average of Quarterly Net Migration from/to All Other Regions (left) and Four Types of Regions (right), Metro Areas with Total Populations 8.8 Million to 7.2 Million

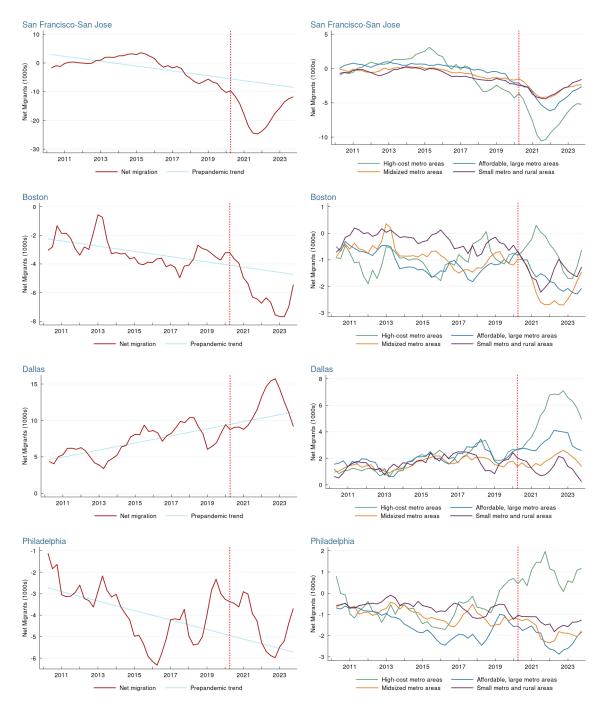


Figure 10: Four Quarter Moving Average of Quarterly Net Migration from/to All Other Regions (left) and Four Types of Regions (right), Metro Areas with Total Populations 7.1 Million to 5.3 Million

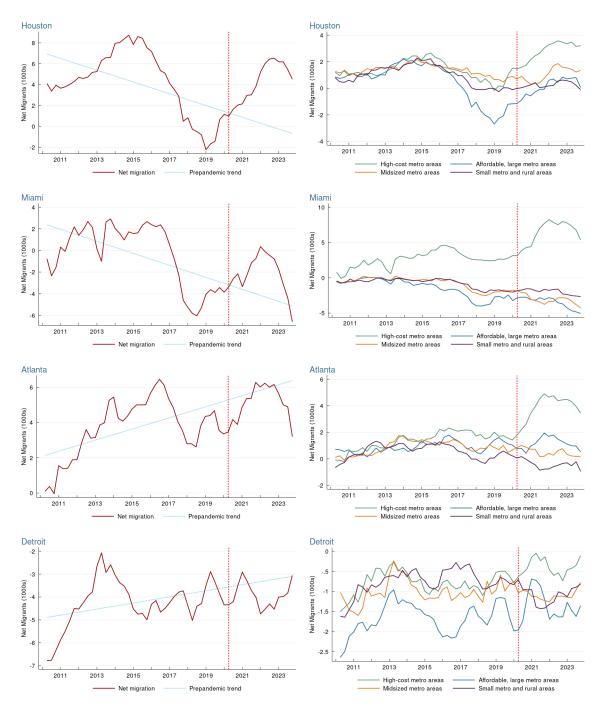


Figure 11: Four Quarter Moving Average of Quarterly Net Migration from/to All Other Regions (left) and Four Types of Regions (right), Metro Areas with Total Populations 4.8 Million to 3.5 Million

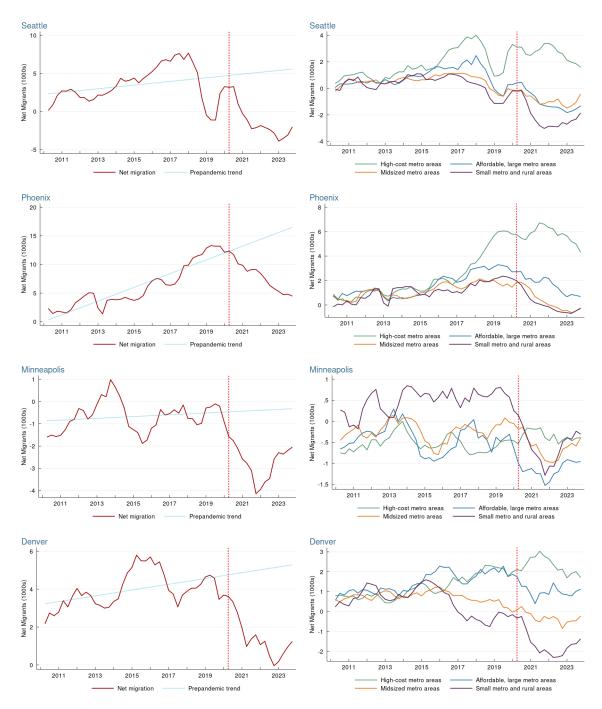


Figure 12: Four Quarter Moving Average of Quarterly Net Migration from/to All Other Regions (left) and Four Types of Regions (right), Metro Areas with Total Populations 3.5 Million to 3.2 Million

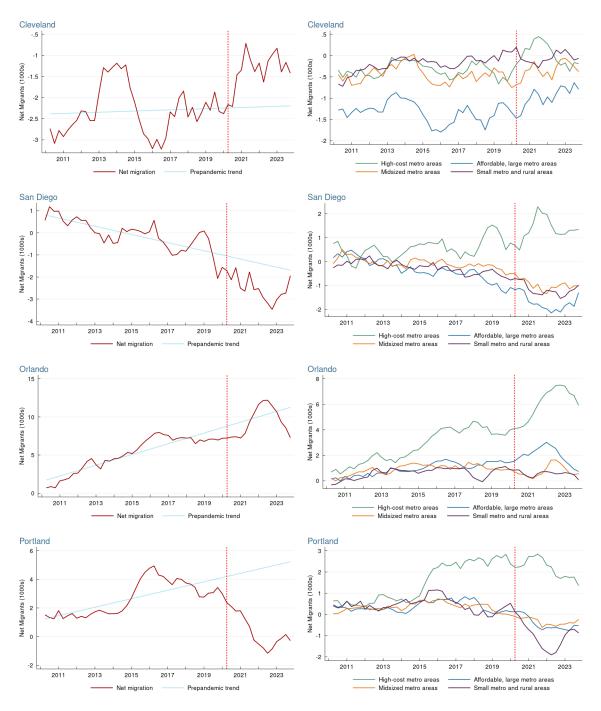


Figure 13: Four Quarter Moving Average of Quarterly Net Migration from/to All Other Regions (left) and Four Types of Regions (right), Metro Areas with Total Populations 3.1 Million to 2.6 Million

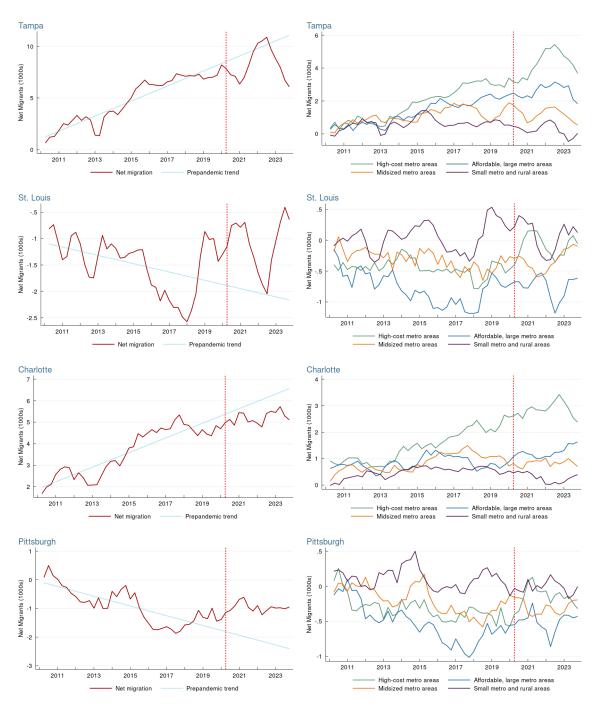


Figure 14: Four Quarter Moving Average of Quarterly Net Migration from/to All Other Regions (left) and Four Types of Regions (right), Metro Areas with Total Populations 2.6 Million to 2.5 Million

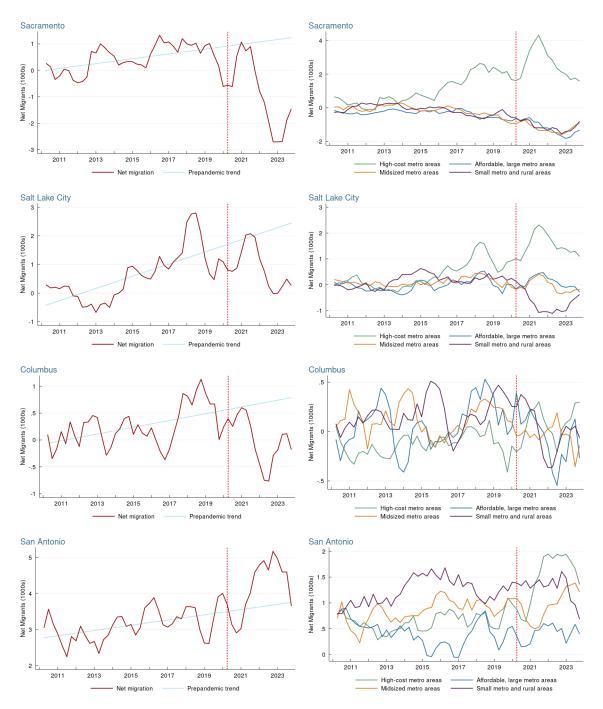


Figure 15: Four Quarter Moving Average of Quarterly Net Migration from/to All Other Regions (left) and Four Types of Regions (right), Metro Areas with Total Populations 2.5 Million to 2.2 Million

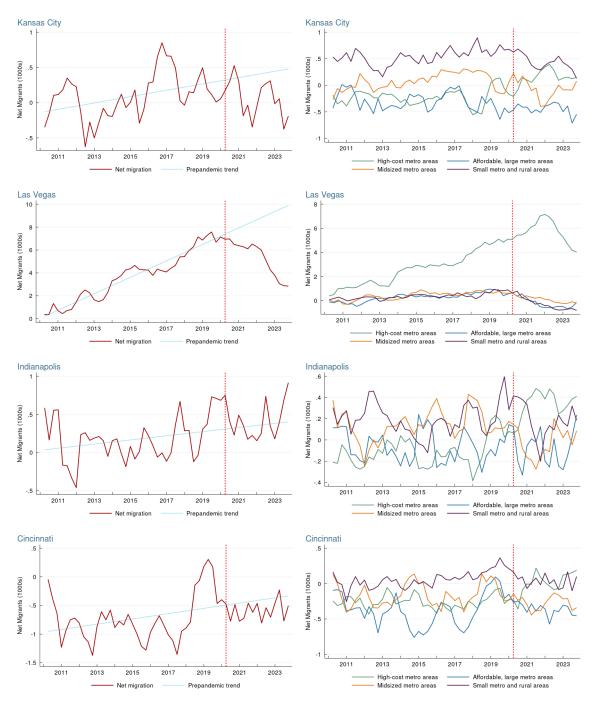
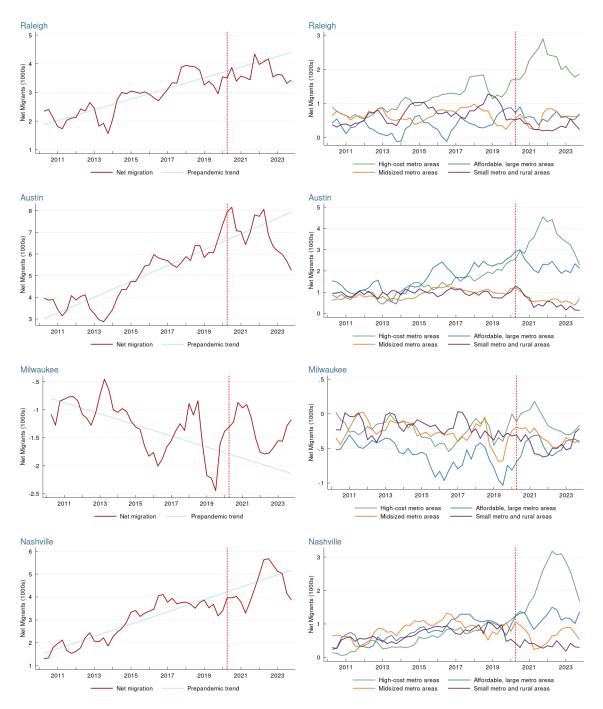


Figure 16: Four Quarter Moving Average of Quarterly Net Migration from/to All Other Regions (left) and Four Types of Regions (right), Metro Areas with Total Population 2.2 Million



# References

DeWaard, Jack, Janna Johnson, and Stephan D. Whitaker. 2019. "Internal Migration in the United States: A Comprehensive Comparative Assessment of the Consumer Credit Panel." *Demographic Research* 41 (October): 953–1006. https://doi.org/10.4054/DemRes.2019.41.33.

Lee, Donghoon, and Wilbert Van der Klaauw. 2010. "An Introduction to the FRBNY Consumer Credit Panel." Staff Report 479. Federal Reserve Bank of New York. https://fedinprint.org/item/fednsr/12522.

# **Appendix**

## **Graph values**

Tables A1 and A2 contain the migration estimates that appear in each of the figures in this update. For the urban neighborhood estimates to be included in the figures and tables, the metro area had to have at least 250,000 people living in its urban neighborhoods in 2019. The metros above this threshold represent 90 percent of urban residents in the US. Table A2 contains the net migration between the combined statistical areas with populations above 2 million and the four types of regions: high-cost metros (HC), affordable, large metros (AL), midsized metros with populations 500,000 to 2 million (MS), and small metro areas, with populations below 500,000, and rural areas (SR). As in the figures, all values are four quarter moving averages. The units are thousands of migrants.

Table A1. Four Quarter Moving Average of Net Migration for Urban Neighborhoods of the Indicated Metro Areas (Combined Statistical Areas), Thousands of Migrants per Quarter

Table A2. Combined Statistical Areas Four Quarter Moving Average of Net Migration for Other Regions by Type, Thousands of Migrants per Quarter

#### Data sources

The migration estimates in this update are created with data from the Federal Reserve Bank of New York/Equifax Consumer Credit Panel (CCP). The CCP is a 5 percent random sample of the credit histories maintained by Equifax. The CCP reports the census block of residence for over 10 million individuals each quarter. Each month, Equifax receives individuals' addresses, along with reports of debt balances and payments, from creditors (mortgage lenders, credit card issuers, student loan servicers, etc.). An algorithm maintained by Equifax considers all of the addresses reported for an individual and identifies the individual's most likely current address. Equifax anonymizes the data before they are added to the CCP, removing names, addresses, and Social Security numbers (SSNs). In lieu of mailing addresses, the census block of the address is added to the CCP. Equifax creates a unique, anonymous identifier to enable researchers to build individuals' panels. The panel nature of the data allows us to observe when someone has migrated and is living in a census block different from the one they lived in at the end of the preceding quarter. For more details about the CCP and its use in measuring migration, see Lee and Van der Klaauw (2010) and DeWaard, Johnson, and Whitaker (2019).

American Community Survey data are used to designate census tracts as urban or non-urban. Listing data from the National Association of Realtors are used to designate the high-cost metro areas.

## **Definitions**

## Metropolitan area

The metropolitan areas in this report are combined statistical areas. This is the most aggregate definition of metro areas, and it combines Washington DC with Baltimore, San Jose with San Francisco, Akron with Cleveland, etc. Metro areas are combinations of counties that are tightly linked by worker commutes and other economic activity. All counties outside of metropolitan areas are tracked as parts of a rural commuting zone (CZ). CZs are also groups of counties linked by commuting, but CZ definitions cover all counties, both metropolitan and non-metropolitan.

## **High-cost metropolitan areas**

High-cost metro areas are those where the median list price for a house was more than \$200 per square foot on average between April 2017 and April 2022. These areas include San Francisco-San Jose, New York, San Diego, Los Angeles, Seattle, Boston, Miami, Sacramento, Denver, Salt Lake City, Portland, and Washington-Baltimore. All other metro areas with populations above 2 million are categorized as affordable, large metros.

### Urban neighborhood

For the analysis of urban neighborhoods, census tracts are designated as urban if they have a population density above 7,000 people per square mile. High-density neighborhoods can support walkable retail districts and high-frequency public transportation. They are more likely to have the "street life" that people associate with living in an urban rather than a suburban area. The threshold of 7,000 people per square mile was selected because it was the average density in the largest US cities in the 1930 census. Before World War II, workplaces, shopping, schools, and parks had to be accessible on foot.

Tracts are also designated as urban if more than half of their housing units were built before WWII and they have a population density above 2,000 people per square mile. The lower population density threshold for the pre-war neighborhoods recognizes that many urban tracts have lost population since the 1960s. While the street grids usually remain, the area also needs sufficient density to support neighborhood establishments and continue to function as an urban neighborhood.

Small cities and towns often have a few dense and walkable neighborhoods, but these tracts are not given an urban designation unless their metro area has at least 500,000 residents. Another defining characteristic of an urban neighborhood is that it places its residents close to amenities that can only be supported by the scale of a major metro, such as major league sports stadiums, professional theaters, museums, etc.

## Urban migration

To obtain net urban migration estimates, we count the number of people moving into the urban neighborhoods of the indicated metros and subtract the number of people moving out of the same urban neighborhoods. Negative values mean more people are leaving than arriving. The out-migration counts include people moving from the urban neighborhoods to suburbs in the same metro area or to any region outside the metro area. Similarly, the in-migration counts include people arriving in the urban neighborhoods from suburbs in the same metro area or any region outside the metro area. Local urban-to-urban moves are not included.

# **Regional migration**

The regional migration estimates count the people who move between different metro areas or between metro areas and rural commuting zones. Local within-metro movers are not included. The estimates of regional moves include everyone who moves to another region, making no distinction between urban/suburban neighborhoods.