

Riverside, California

Indicators Report

by
The National Economic Education Delegation (NEED)

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Exploring the economics, demographics, and well-being of Riverside and its residents through indicators.

This report was produced by the:

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Executive Summary

Assessing the City with Indicators

About this Report

This report provides background or summary information for the city of Riverside (the City) in the form of indicators.

Using this Report

Indicators are measures of various aspects of a regional economy. They help to provide an indication of the quality of life in a region and progress toward improving conditions in the local economy. This report focuses on indicators

for changing demographics, incomes, housing markets, commute patterns, and employment in Riverside. These indicators are compared to Riverside County (the County) as a whole, a broader region where one is well defined, California, and the United States.

This report is vital for understanding trends in the underlying economy. It does not provide forecasts, but Rob Eyler and Jon Haveman at Economic Forensics and Analytics are available to provide them if that is of interest.

Topics Covered:

- **Demographics:** A detailed snapshot of Riverside demographics is presented. This provides evidence on the size, age and sex, income and poverty status, race and ethnicity, housing status, living arrangements, education, health, and transportation choices of the population. Beyond the current population level, data on trends in local population growth, in comparison with other broader regions is presented, in both tabular and graphical form.
- **Employment Report:** Here, we provide a brief snapshot of employment and unemployment in Riverside and how the City's experience differs from broader regions.
- **Income and Earnings:** Vital to understanding the prosperity of a city relative to its surrounding area is information on income and earnings. We provide a ranking of the City's income relative to all cities in California as well as growth relative to local regions. Inequality and poverty status are also important indicators for the level of equity in the community. We provide evidence of trends in both, not only for all residents, but also for children separately.
- **Housing:** This section provides evidence on the cost and availability of housing. Both median home values and rental costs are included, along with detailed information on home ownership, by age and income, in particular. Further, evidence is provided on the housing burden in the City, again, in comparison with other broader regions. We also provide evidence on the rate at which new buildings and units are permitted along with a broader housing picture. Finally, we provide evidence on the age of the housing stock in Riverside, along with information on how long the City's residents have been in place.
- **Transportation:** Increasingly important, in the wake of the pandemic, is an understanding of the transportation patterns and choices of local residents. We provide detailed evidence on the proportion of residents who work from home and on the various transportation choices of those who head to the office. This information is also provided for those who work in Riverside, but do not necessarily live in Riverside.
- **Migration:** Population changes comes primarily through organic causes: births and deaths. Migration between regions also plays a significant role in population growth. A final section of the report provides evidence on migration into and out of the City.

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Demographics

Definition:

Data on the demographics of a city indicate the nature of the population, with a focus on age, gender, race and ethnicity, as well as household composition.

Why is it important?

The characteristics and growth of Riverside's population are fundamental indicators of the city's growth potential.

A Demographic Snapshot

Statistic	2022	2019
POPULATION		
Population Estimate (#)	320,785.0	331,369.0
Veterans (#)	11,722.0	10,915.0
Foreign born persons (% , 5yr)	22.2	22.6
Population age 25+ (#)	207,340.0	203,308.0
AGE AND SEX		
Persons under 5 years (%)	5.5	5.9
Persons under 18 years (%)	22.3	24.3
Persons 65 years and over (%)	12.4	10.5
Female persons (%)	51.1	49.1
INCOME AND POVERTY		
Median household income (\$)	81,228.0	71,967.0
Per capita income in past 12 months (\$)	32,762.0	25,953.0
Persons in poverty (%)	12.8	11.5
Children age less than 18 in poverty (#)	10,138.0	9,839.0
Children age less than 18 in poverty (%)	14.4	12.5
RACE AND ETHNICITY		
White alone (%)	36.0	58.2
African American alone (%)	5.8	5.3
American Indian or Alaska Native alone (% , 5yr)	0.8	0.8
Asian alone (%)	6.9	7.8
Native Hawaiian and Other Pacific Islander alone (% , 5yr)	0.4	0.3
Two or More Races (%)	17.8	4.8
Hispanic or Latino (%)	56.3	57.2
White alone, not Hispanic or Latino (%)	27.5	26.7
HOUSING		
Housing units (#)	105,145.0	91,011.0
Owner-occupied housing units (%)	52.5	53.2
Median value of owner-occupied housing units (\$)	589,600.0	411,000.0
Median selected monthly owner costs-with a mortgage (\$)	2,201.0	1,989.0
Median selected monthly owner costs-without a mortgage (\$)	547.0	482.0
Median gross rent (\$)	1,747.0	1,504.0
FAMILIES AND LIVING ARRANGEMENTS		
Households (#)	99,245.0	87,189.0
Persons per household (#)	3.1	3.6
Living in same house 1 year ago, % of persons age 1+	87.6	87.2
EDUCATION		
High school graduate or higher, % of persons age 25+	84.4	81.0
Bachelor's degree or higher, % of persons age 25+	26.7	22.1
HEALTH		
With a disability, under age 65 years (#)	20,428.0	21,204.0
Persons without health insurance, under age 65 years (%)	8.3	8.8
LABOR FORCE		
In civilian labor force, persons age 16+ (%)	65.8	63.9
In civilian labor force, women age 16+ (%)	62.3	56.7
Employed, persons age 16+ (%)	61.2	59.3
Self employed (%)	8.5	7.9
TRANSPORTATION		
Mean travel time to work, workers age 16+ (Mins.)	26.3	32.5
Drive alone in private vehicle (%)	71.1	78.7
Using public transportation (%)	1.7	3.8
Worked from home (%)	10.1	4.7

Source: American Community Survey, Summary Files

Note: Data are from the 1-year files unless indicated by the notation 5yr.

Current Population

The data in these two tables and the following two graphs are from the CA Department of Finance (DOF). The DOF produces population estimates for geographies around California twice a year: January and July. As estimates for cities are only available in January, these two tables are based on the January data. The remaining figures are from the American Community Survey (ACS), provided annually by the U.S. Bureau of the Census.

Table 1. Population Change by Region
(Thousands, January to January)

Region	2023	% Change		
	Population	1 Year	3 Year	5 Year
City				
Riverside	313,676	-0.36	-4.59	-3.86
County and Broader Regions				
Riverside County	2,439,234	0.34	-0.06	1.11
Southern California	21,794,548	-0.41	-2.24	-2.84
California	38,940,231	-0.35	-1.79	-2.01

Source: CA DOF; Calculations by National Economic Education Delegation

Table 2. County Population Change by City
(Thousands, January to January)

City	2022	2023	% Change		
			Local	Southern California	California
Riverside County	2,431.0	2,439.2	0.34	-0.41	-0.35
Riverside	314.8	313.7	-0.36		
Moreno Valley	208.3	208.3	-0.01		
Corona	157.1	157.0	-0.09		
Menifee	107.4	110.0	2.44		
Murrieta	110.6	110.0	-0.54		
Temecula	109.5	108.9	-0.52		
Jurupa Valley	105.2	105.0	-0.16		
Indio	89.8	90.8	1.17		
Hemet	89.2	89.9	0.84		
Perris	78.5	78.9	0.60		
Lake Elsinore	72.0	72.0	-0.02		
Eastvale	70.0	69.5	-0.66		
Beaumont	54.3	56.6	4.12		
San Jacinto	54.3	54.1	-0.37		
Cathedral City	51.6	51.4	-0.36		
Palm Desert	50.6	50.6	-0.02		
Palm Springs	44.2	44.1	-0.17		
Coachella	41.9	42.5	1.26		
La Quinta	37.6	38.0	1.11		
Wildomar	36.4	36.3	-0.28		
Desert Hot Springs	32.4	32.6	0.68		
Banning	30.9	31.2	1.28		
Norco	25.0	25.0	0.01		
Blythe	17.4	17.3	-0.87		
Rancho Mirage	16.9	17.0	0.94		
Calimesa	10.9	11.0	0.11		
Canyon Lake	11.0	10.9	-0.49		
Indian Wells	4.8	4.8	-0.23		

Source: CA DOF; Calculations by National Economic Education Delegation

Figure 1: Population Growth (1)

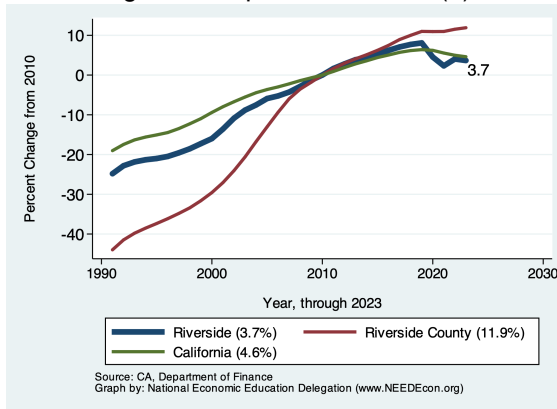


Figure 2: Population Growth (2)

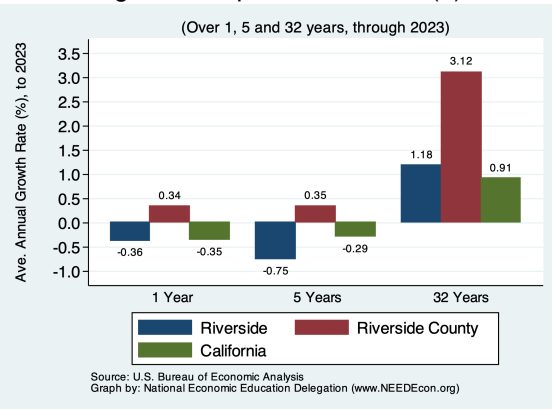


Figure 3: Population by Age - Detailed Age Categories

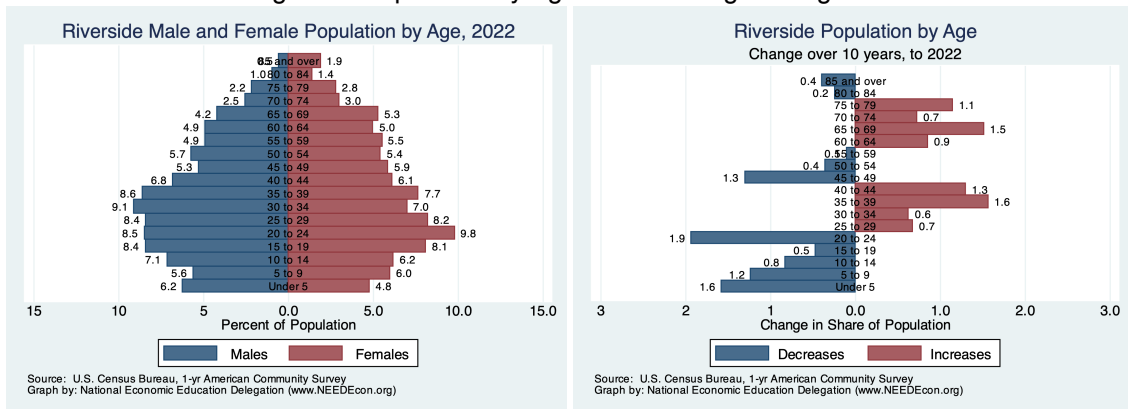


Figure 4: Population by Age - Broad Age Categories

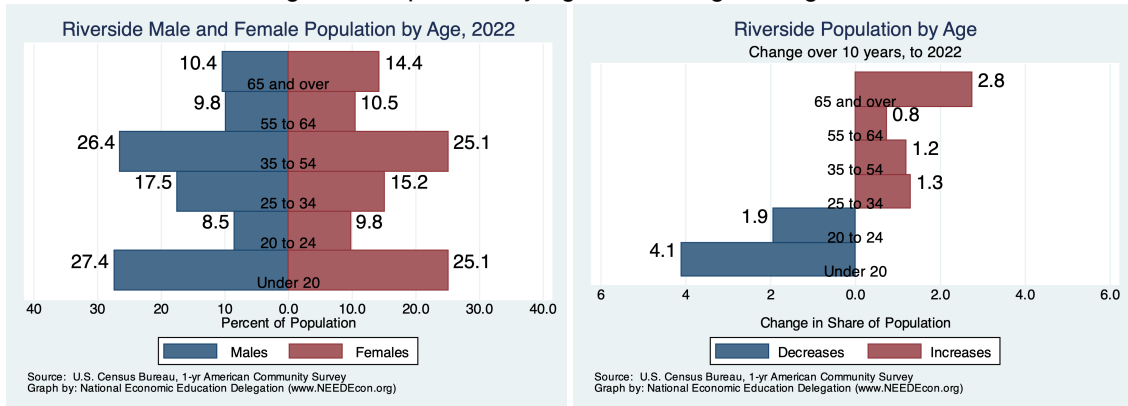


Figure 5: Population by Educational Attainment

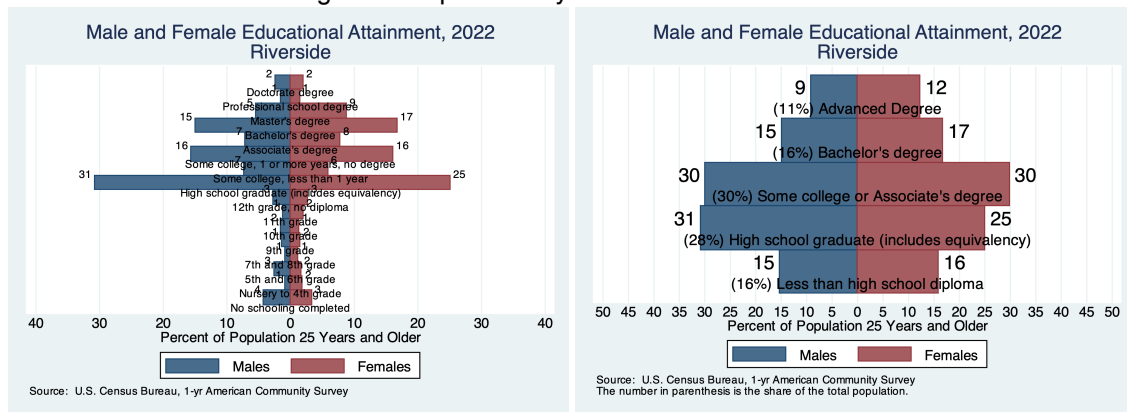


Figure 6: Population by Race/Ethnicity

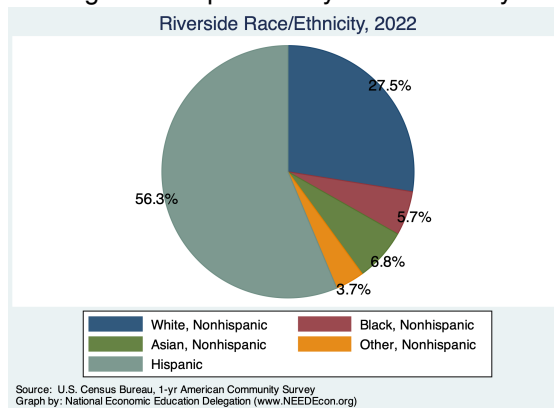
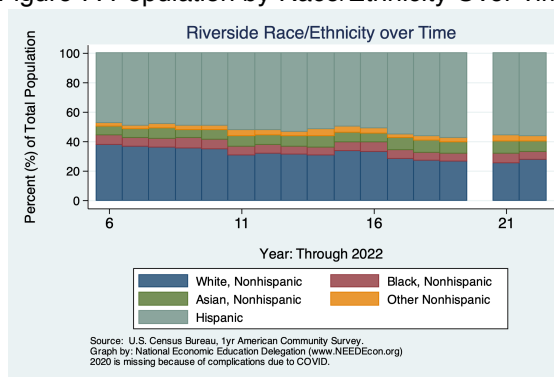


Figure 7: Population by Race/Ethnicity Over Time



Employment Report

Citywide Employment and Unemployment

Definition:

Each month, California's Employment Development Division (EDD) publishes an update on employment in California and in MSAs, counties, and cities all across the state. The report focuses primarily on non-farm employment, providing estimates of changes in em-

ployment by industry as well as unemployment in each region. Data for cities is limited to aggregate employment, labor force, and unemployment data. Those are reported below.

Why is it important?

Employment growth is a fundamental indicator of the health of an economy.

Table 3. Riverside Summary for March, 2024

Category	Current Value	Change From:		
		Last Month	2 Months Ago	Last Year
Employment	8,924	-30	-53	-103
Labor Force	9,644	9	15	96
Number Unemployed	678	-4	21	97
Unemployment Rate	7.0	-0.0	0.2	0.9

Source: EDD, National Economic Education Delegation

Figure 8: Historical Employment and Unemployment - Last 12 Months

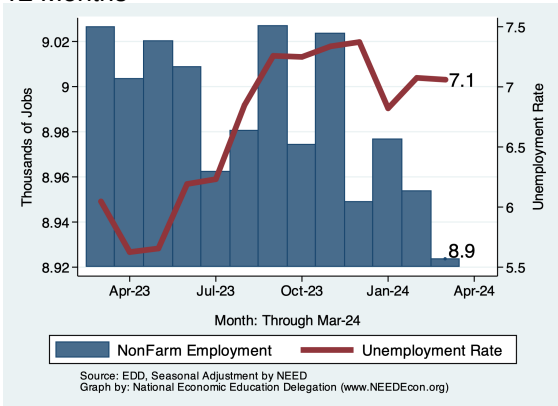
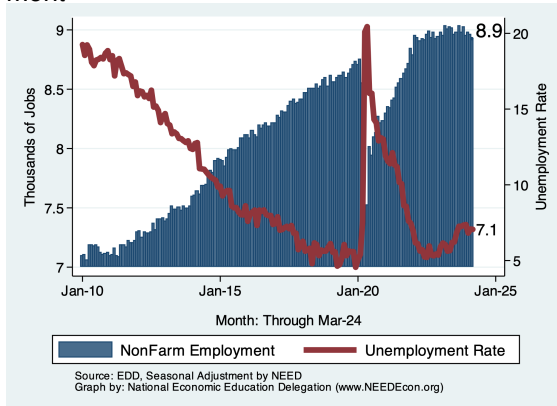


Figure 10: Relative Employment Growth Across Regions - since 2010

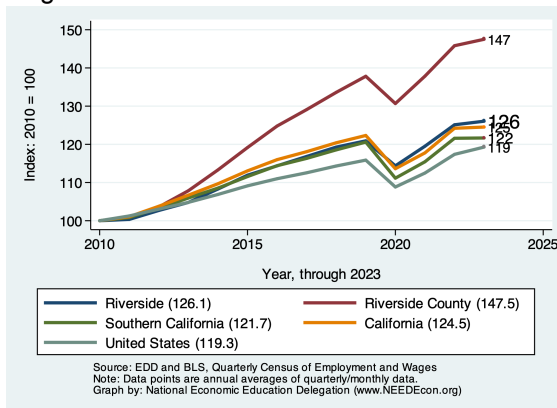
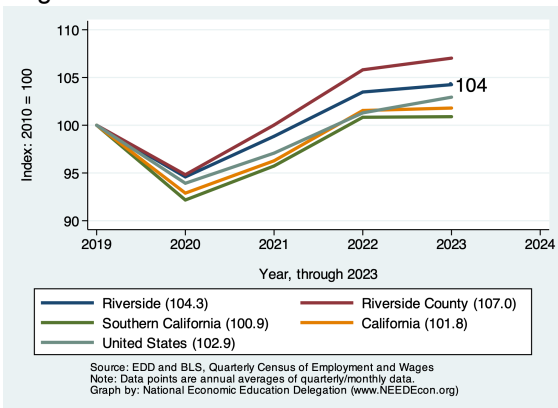


Figure 11: Relative Employment Growth Across Regions - since 2019



MSA Employment by Industry

California's Employment Development Division (EDD) does not regularly produce data on employment by industry for cities. However, we are able to report industry-level employment data for the Riverside-San Bernardino-Ontario MSA. The following table provides the latest data for the MSA.

Table 4. Employment Growth by Industry in the Riverside-San Bernardino-Ontario MSA for March, 2024

Industry	Employment	Share	Empl Growth	% Growth - Annualized Rate					
				Month	Qtr	6mo	1yr	3yr	5yr
Total Nonfarm	1,694,223	100.0	5,971.1	4.3	0.5	0.8	1.6	3.3	2.1
Total Private	1,425,885	84.2	3,363.1	2.9	0.2	0.6	1.0	3.1	2.4
Goods Producing	216,611	12.8	948.2	5.4	-5.6	-0.1	1.2	1.6	0.9
Mining, Logging and Construction	120,753	7.1	1,778.6	19.5	-2.3	3.7	5.6	2.8	2.7
Mining and Logging	1,600	0.1	0.0	0.0	0.0	0.0	14.3	7.7	6.7
Construction	118,854	7.0	1,464.0	16.0	-3.4	3.5	5.7	2.9	2.6
Manufacturing	96,076	5.7	-620.1	-7.4	-9.0	-4.3	-3.8	0.2	-1.0
Durable Goods	58,679	3.5	-417.3	-8.2	-7.6	-4.2	-3.8	-0.8	-2.2
Non-Durable Goods	37,446	2.2	-154.4	-4.8	-9.8	-3.9	-3.9	1.9	1.4
Service Providing	1,477,534	87.2	5,264.7	4.4	1.4	1.0	1.6	3.6	2.3
Trade, Trans & Utilities	452,210	26.7	1,888.6	5.2	2.5	-1.1	-1.3	0.9	3.3
Wholesale Trade	67,659	4.0	-155.0	-2.7	-3.2	-2.3	-2.0	0.5	0.1
Retail Trade	180,685	10.7	416.7	2.8	-3.1	-2.4	-1.4	0.9	-0.1
Trans & Warehousing	197,024	11.6	662.2	4.1	3.8	-0.7	-1.0	1.1	9.6
Utilities	5,718	0.3	-49.7	-9.9	6.1	3.0	3.6	4.7	4.3
Information	13,125	0.8	-47.7	-4.3	-3.7	-2.7	-1.5	2.5	-1.3
Financial Activities	44,464	2.6	-86.6	-2.3	-2.2	-1.3	-1.4	-0.2	-0.1
Finance & Insurance	21,985	1.3	-20.5	-1.1	-2.2	-2.7	-1.8	-3.5	-2.2
Real Estate & Rental & Leasing	22,538	1.3	-36.2	-1.9	-0.4	0.6	-0.9	3.9	2.5
Professional & Business Svcs	166,274	9.8	1,764.0	13.7	0.5	3.2	-0.5	0.7	1.9
Prof, Sci, & Tech	46,211	2.7	201.6	5.4	1.8	0.5	-0.1	3.5	2.5
Admin & Support Svcs	106,331	6.3	1,990.8	25.5	-1.6	5.0	-1.0	-0.6	1.6
Employment Svcs	49,934	2.9	1,065.4	29.5	4.6	7.0	-3.0	-2.4	3.3
Educational & Health Svcs	301,992	17.8	2,216.0	9.2	7.6	6.3	8.0	6.5	4.4
Education Svcs	22,176	1.3	163.7	9.3	1.9	3.7	5.7	9.9	2.6
Health Care & Social Assistance	279,860	16.5	1,961.8	8.8	8.4	6.5	8.2	6.3	4.6
Leisure & Hospitality	182,103	10.7	-703.3	-4.5	-4.5	-4.9	-2.6	8.2	0.7
Arts, Entertainment & Recreation	20,665	1.2	64.7	3.8	-1.9	-10.2	-3.2	14.6	-0.0
Accommodation & Food Svcs	161,299	9.5	-746.8	-5.4	-5.1	-4.5	-2.4	7.5	0.8
Other Svcs	49,608	2.9	174.0	4.3	-3.6	0.2	1.4	6.3	1.5
Government	270,223	15.9	911.3	4.1	4.5	5.1	4.9	4.7	0.7
Federal	21,813	1.3	94.6	5.4	4.0	3.9	3.8	1.0	0.8
State	28,999	1.7	-1.0	-0.0	2.5	1.2	1.9	-2.1	-1.2
Local	219,293	12.9	791.9	4.4	4.8	5.6	5.4	6.2	1.0
County	31,724	1.9	-72.5	-2.7	3.4	1.8	0.3	-3.0	-1.6
City	17,509	1.0	52.9	3.7	6.7	8.4	8.1	8.4	2.9
Local Government Education	134,406	7.9	641.5	5.9	5.6	6.9	7.0	8.4	1.2

Source: EDD, National Economic Education Delegation (NEED)

Some Employee Detail

Employed in Riverside

Figure 12: Employment by Occupation

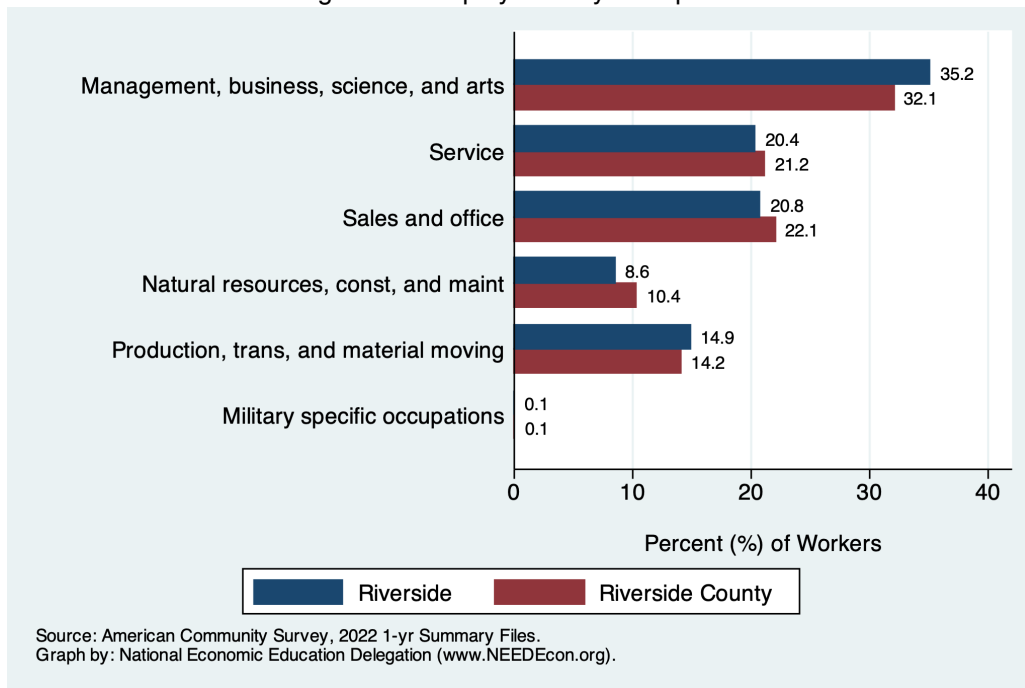


Figure 13: Employment by Industry

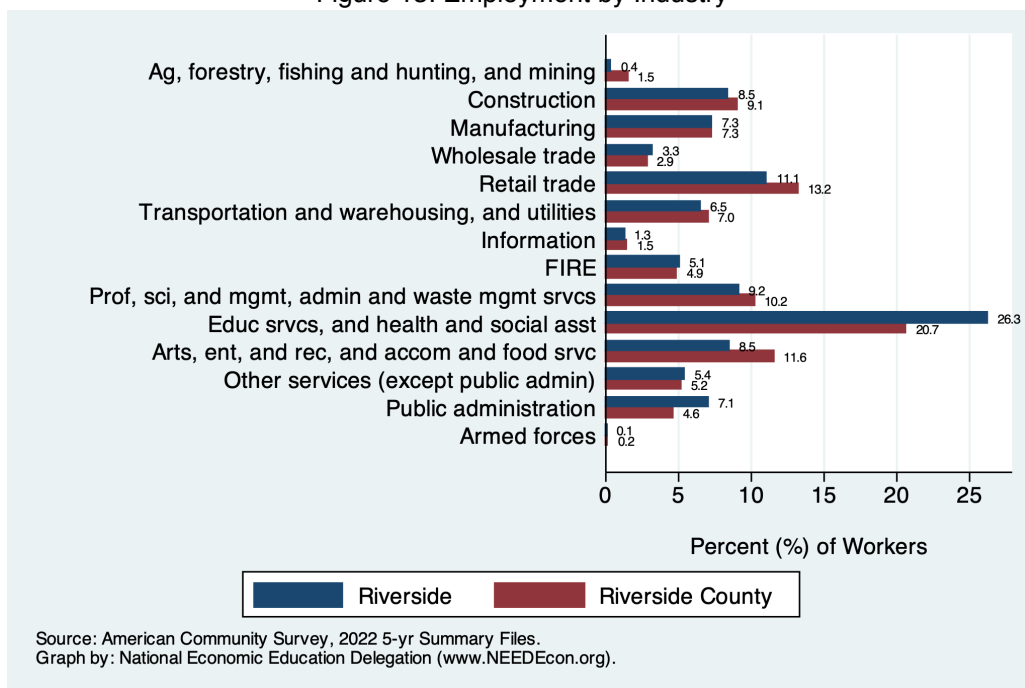
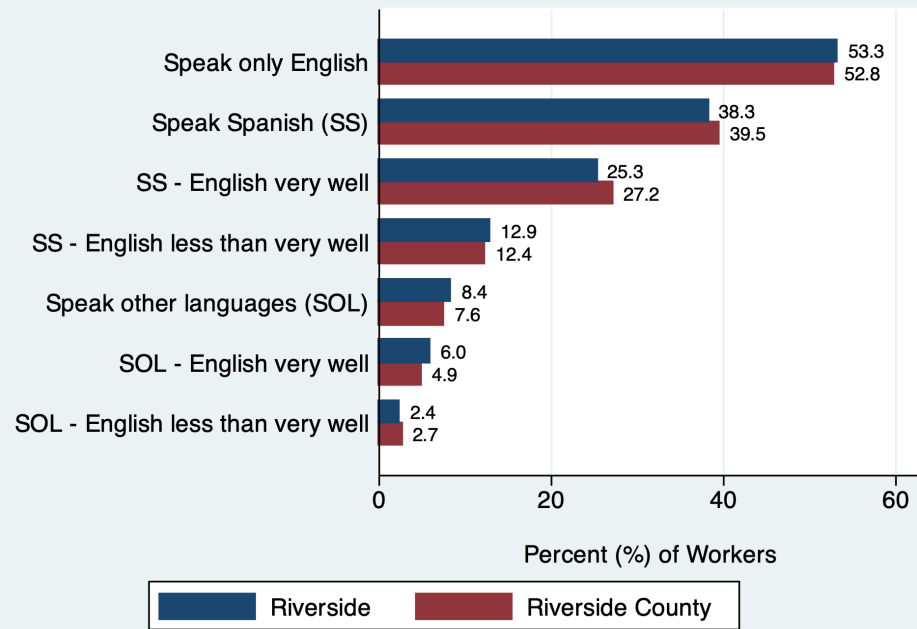
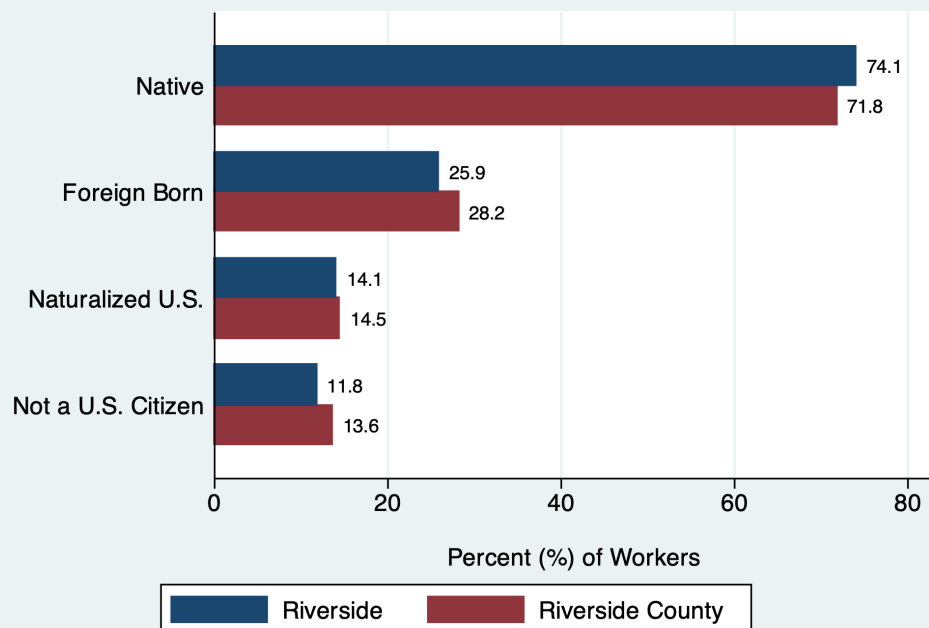


Figure 14: Language Spoken at Home



Source: American Community Survey, 2022 1-yr Summary Files.
 Graph by: National Economic Education Delegation (www.NEEDecon.org).

Figure 15: Citizenship



Source: American Community Survey, 2022 1-yr Summary Files.
 Graph by: National Economic Education Delegation (www.NEEDecon.org).

Employed Residents of Riverside

Figure 16: Employment by Occupation

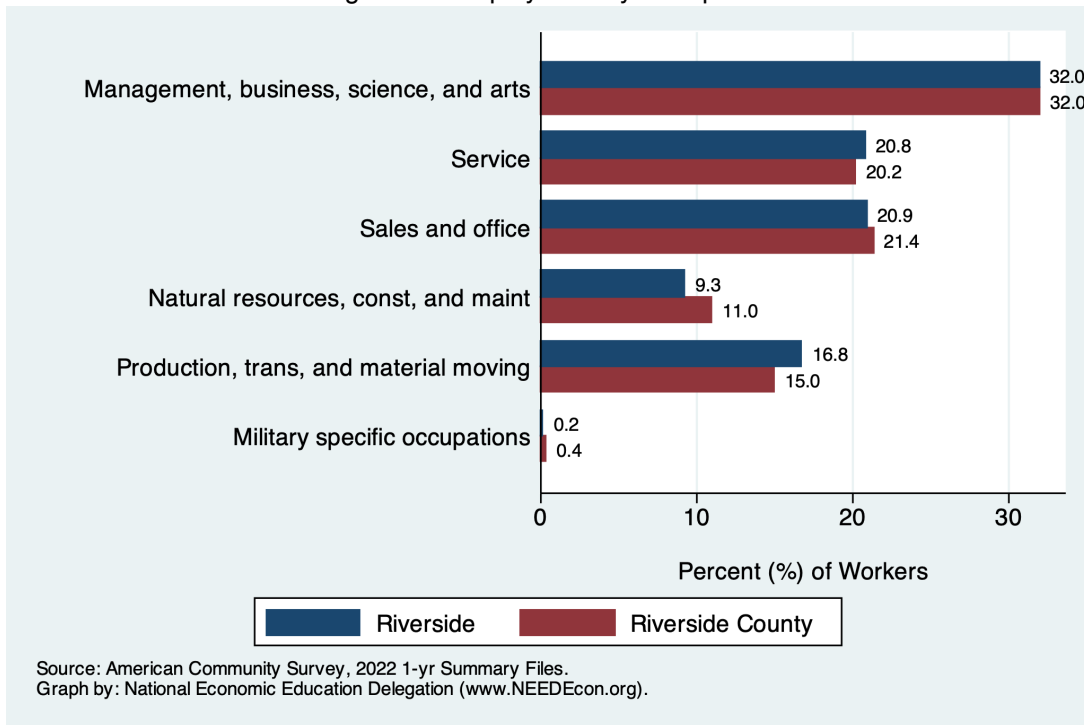


Figure 17: Employment by Industry

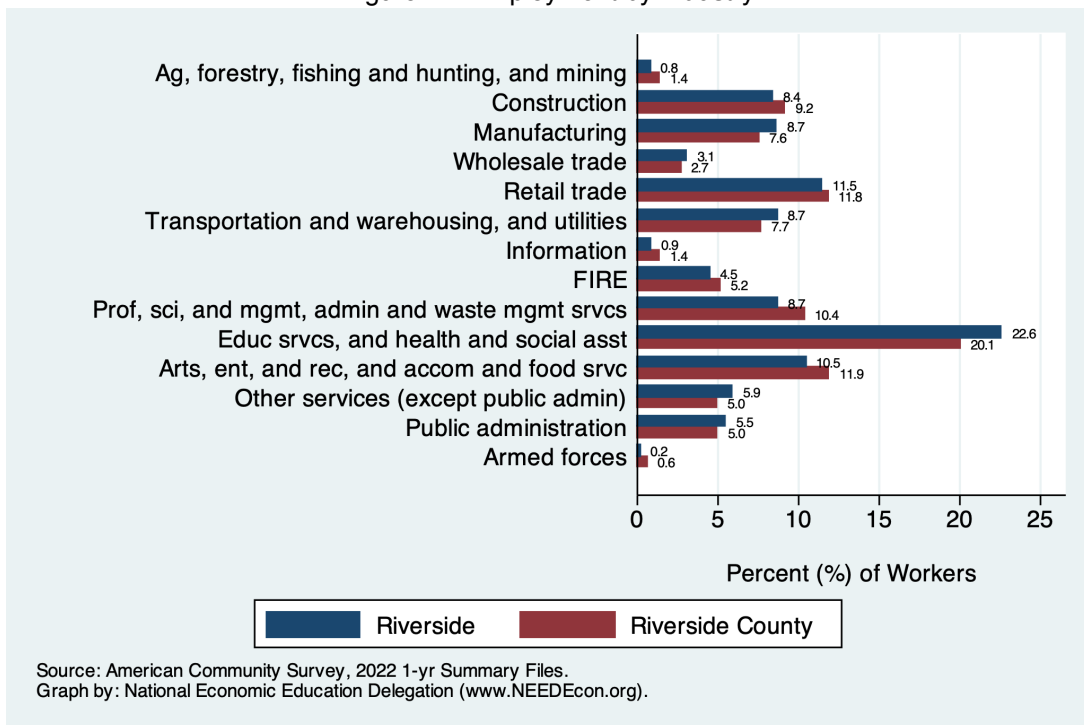
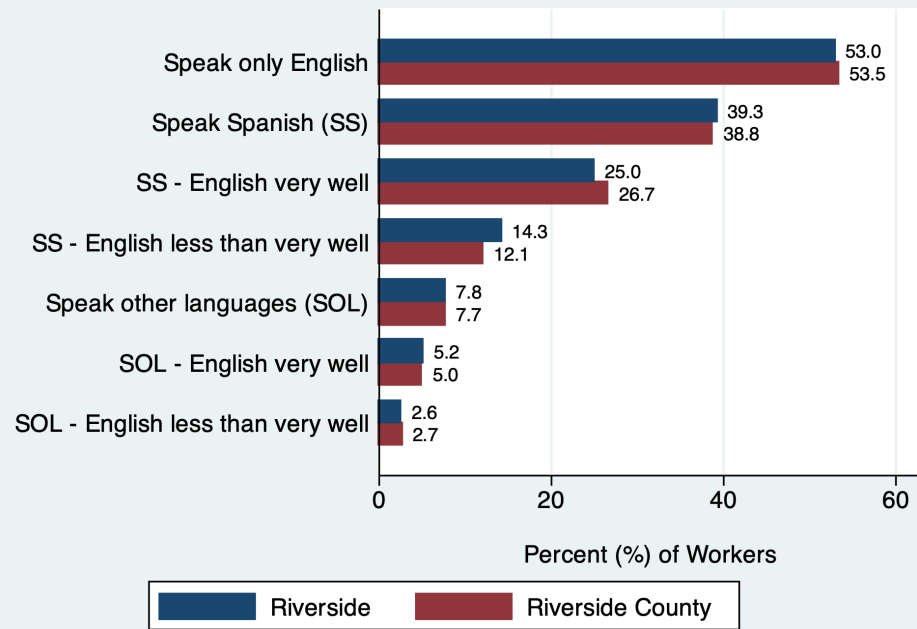
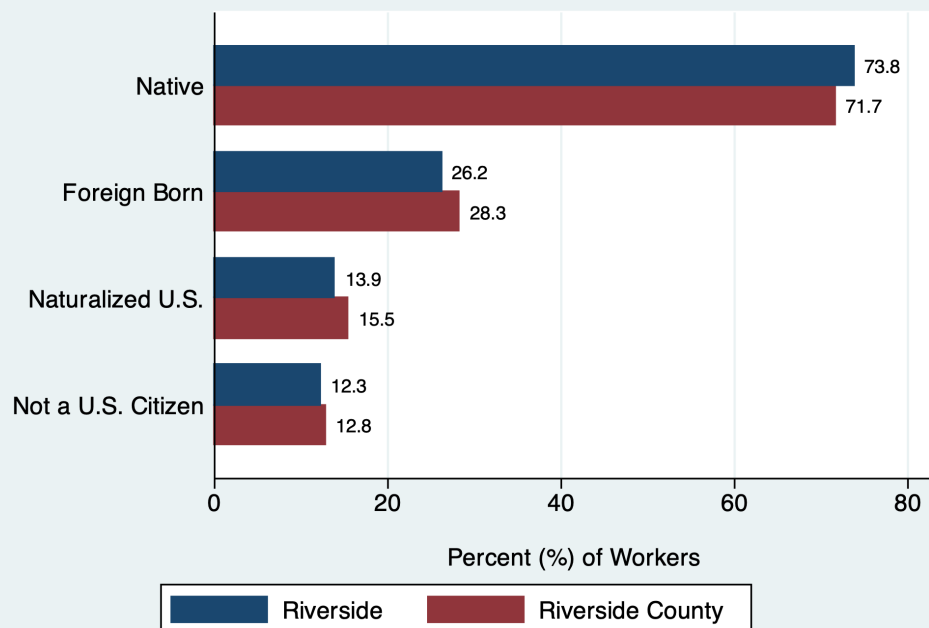


Figure 18: Language Spoken at Home



Source: American Community Survey, 2022 1-yr Summary Files.
 Graph by: National Economic Education Delegation (www.NEEDecon.org).

Figure 19: Citizenship



Source: American Community Survey, 2022 1-yr Summary Files.
 Graph by: National Economic Education Delegation (www.NEEDecon.org).

Employed Residents vs Workers in Riverside

Figure 20: Employment by Occupation

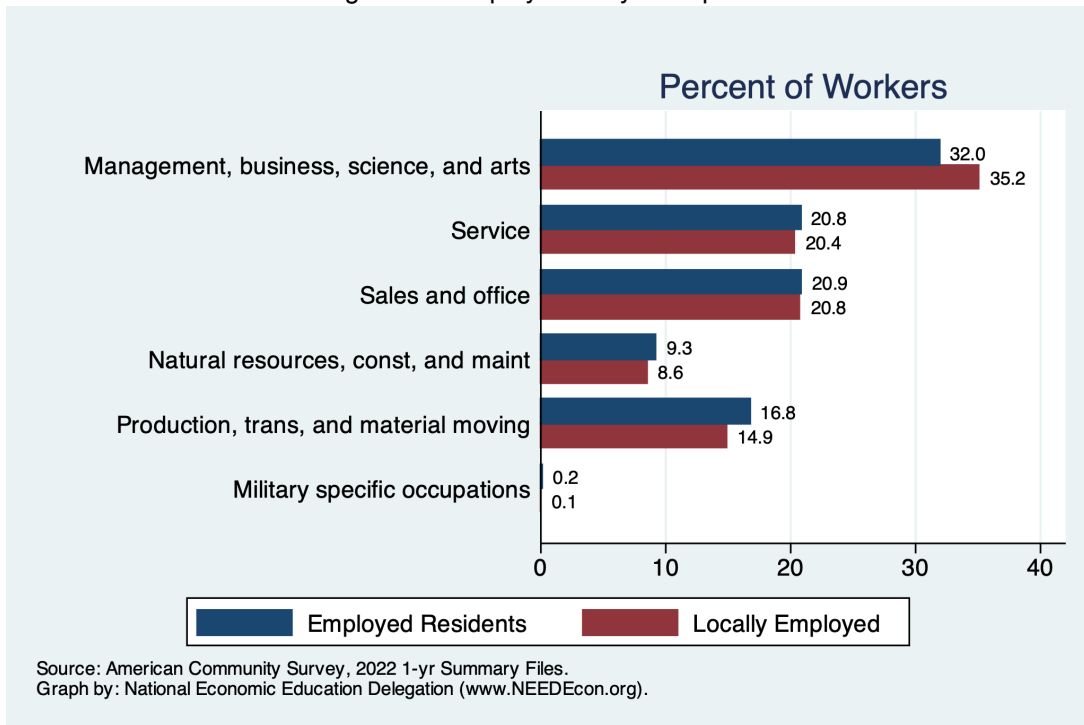


Figure 21: Employment by Industry

N/A

Figure 22: Language Spoken at Home

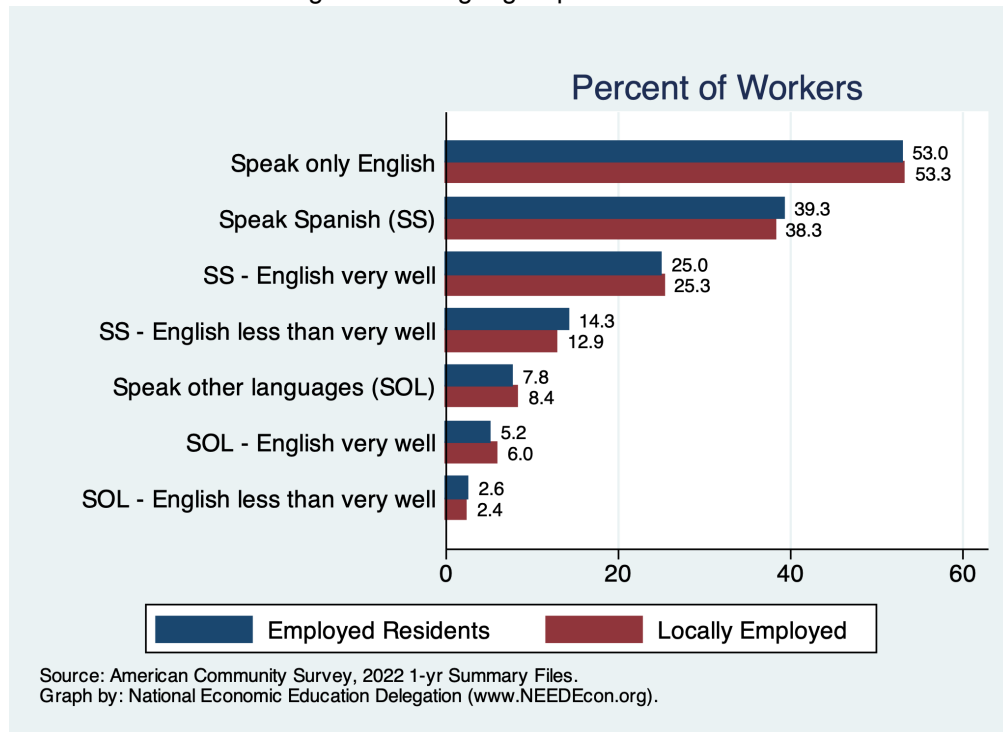
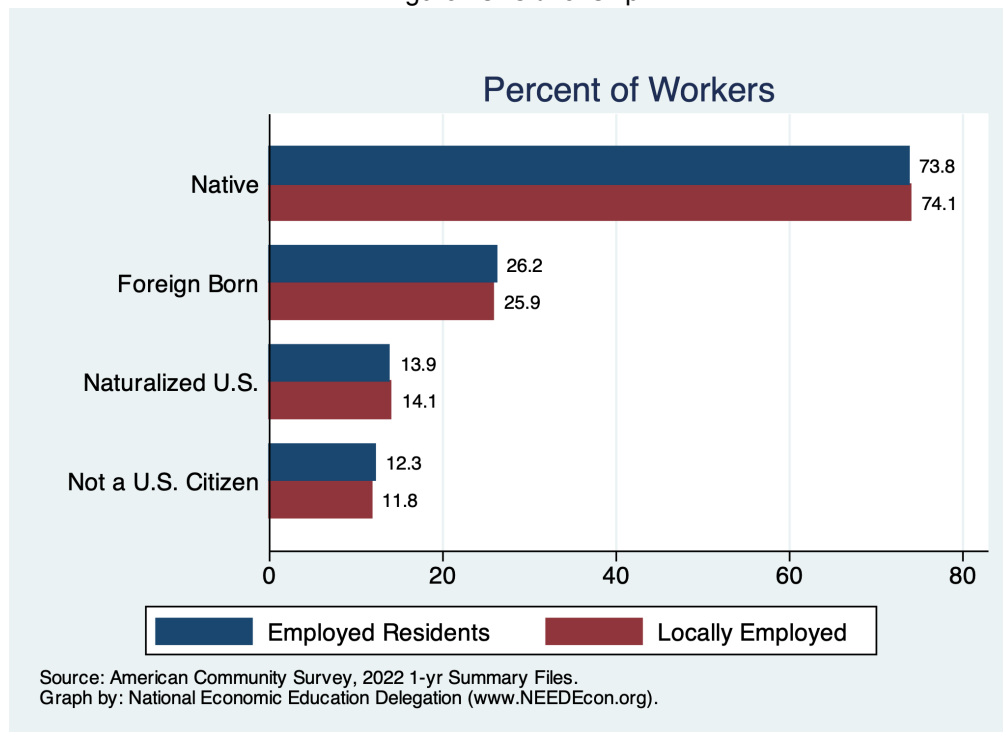


Figure 23: Citizenship



Income and Earnings

Per Capita Income Growth

Definition:

Per capita income is the average income per person in Riverside. Personal income is the income received by, or on behalf of, all persons from all sources: from participation as laborers in production, from owning a home or unincorporated business, from the ownership of financial assets, and from government and business

in the form of transfer receipts. Noncash government benefits are not included.

Why is it important?

Income is the money that is available to persons for consumption expenditures, taxes, interest payments, transfer payments to governments and the rest of the world, or for saving. As such, it is an important indicator of economic well-being in a community.

Figure 24: Real Per Capita Income Ranking Among California Cities

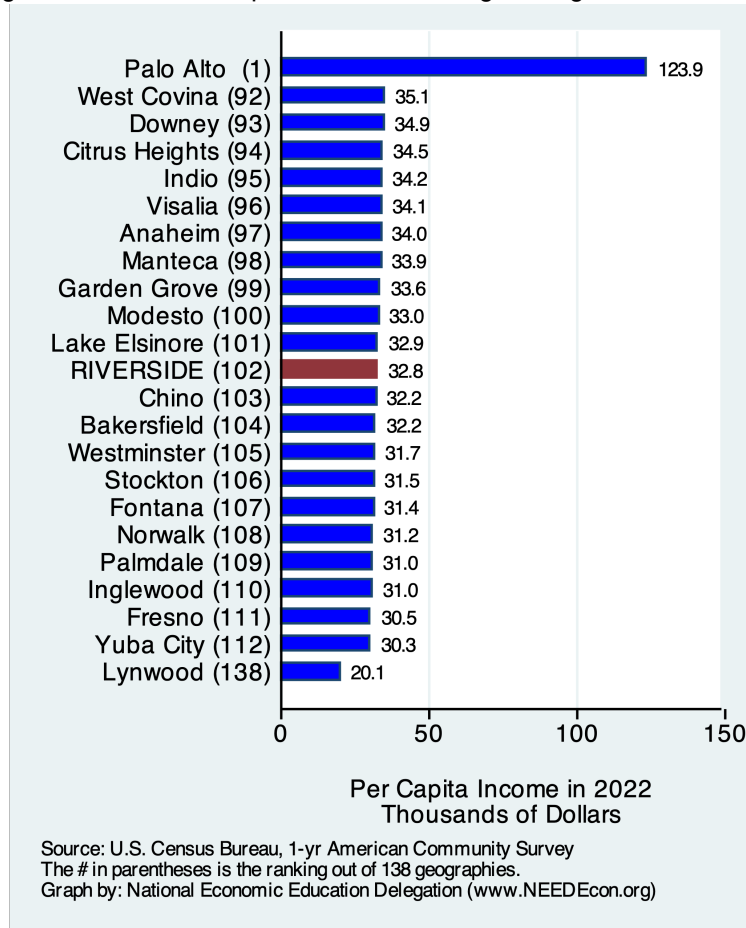
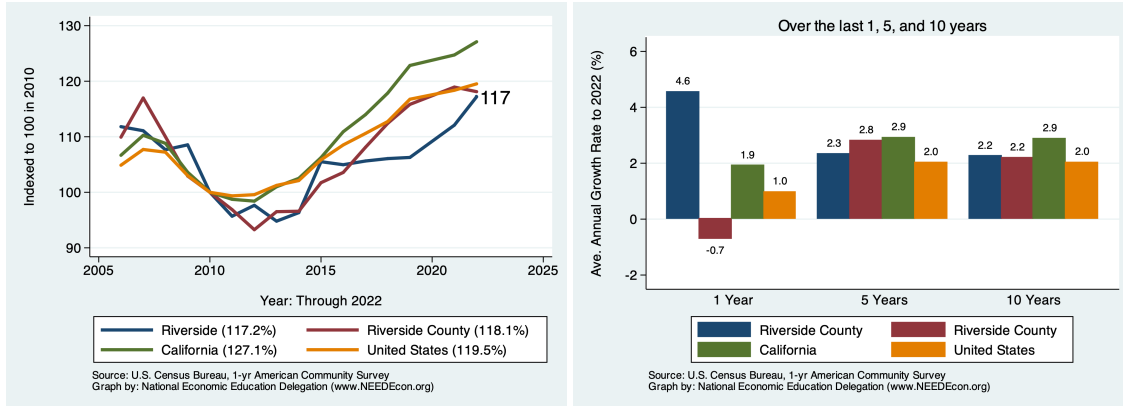


Figure 25: Regional Comparison of Growth over Time



Real Per Capita Income Ranking Among California Cities - w/Comparable Populations

Figure 26: Income Levels

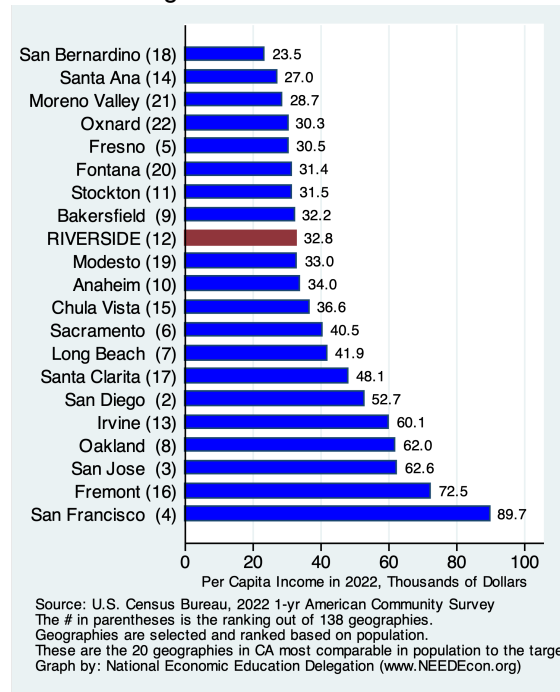
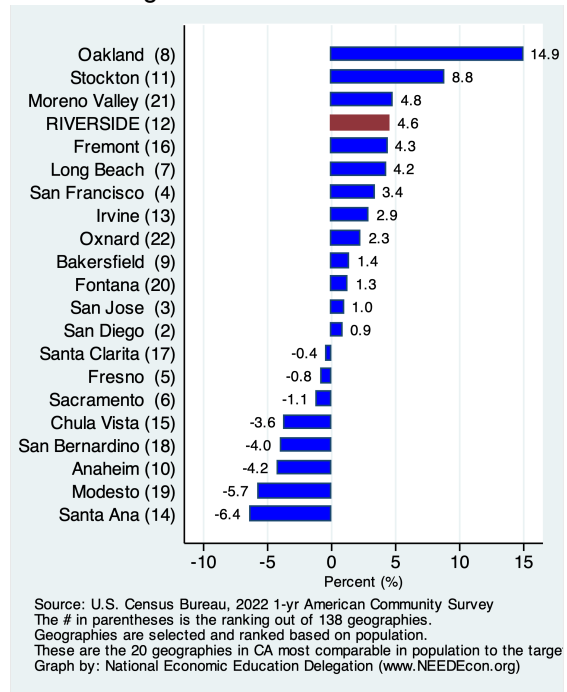


Figure 27: Growth over Time



Real Per Capita Income Ranking Among Cities in Riverside County

Figure 28: Income Levels

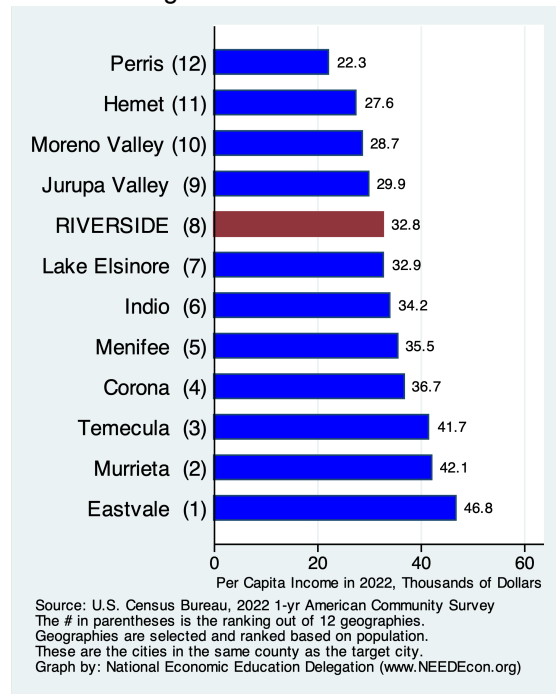


Figure 29: Growth over Time

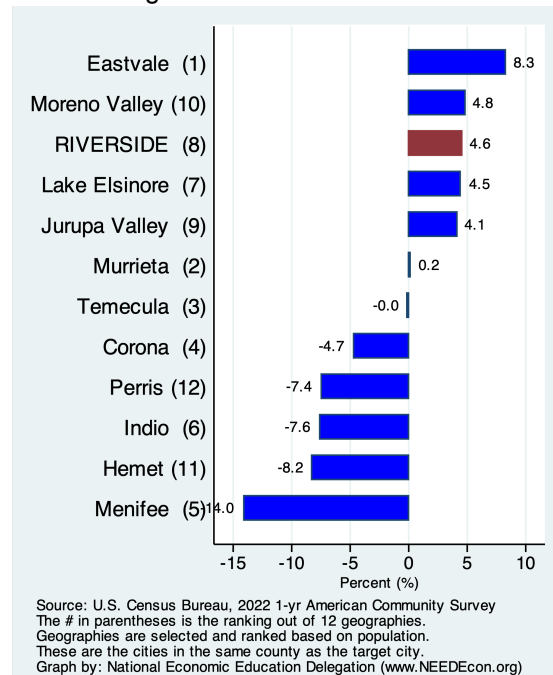
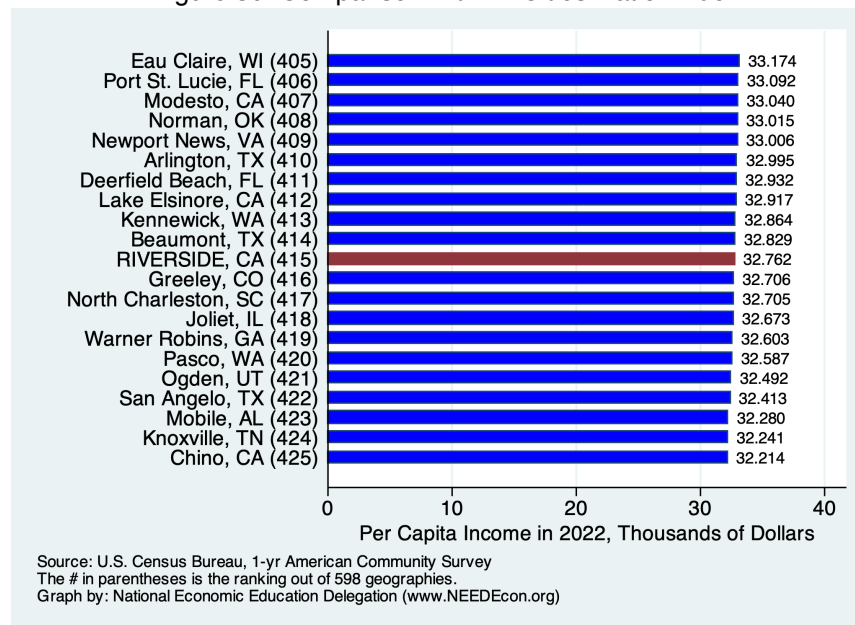


Figure 30: Comparison with All Cities Nationwide



Poverty and Inequality

Definition:

The local poverty rate provides an indication of the well-being of those at the bottom of the income distribution. The federal poverty rate measures the proportion of households in the region that are classified as living in poverty. Also included are measures of the extent to which the City's children are impoverished. Measures of the income distribution provide

further evidence on disparities in income in the region and how those disparities have changed over time.

Why is it important?

It is important to track measures of poverty and inequality to assess the extent of income disparities in the region, with an eye toward understanding how well the local economy is performing for all of its citizens.

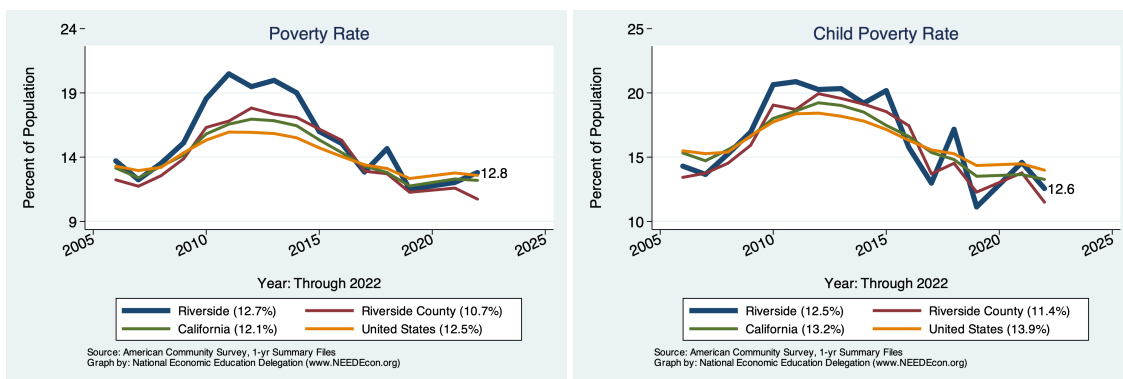


Figure 31: Inequality

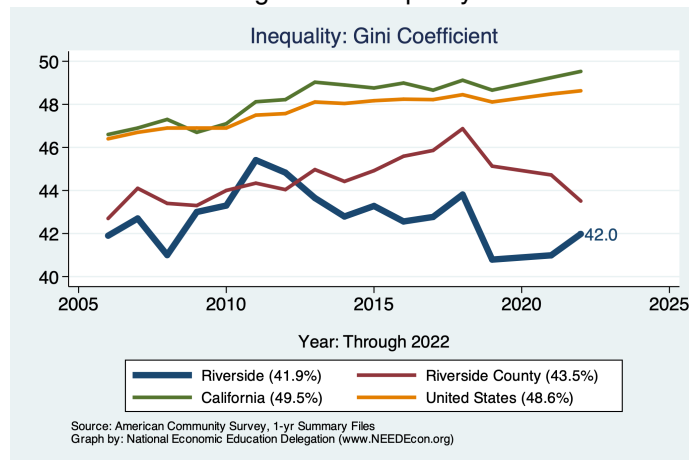


Figure 32: Shares Across the Income Distribution

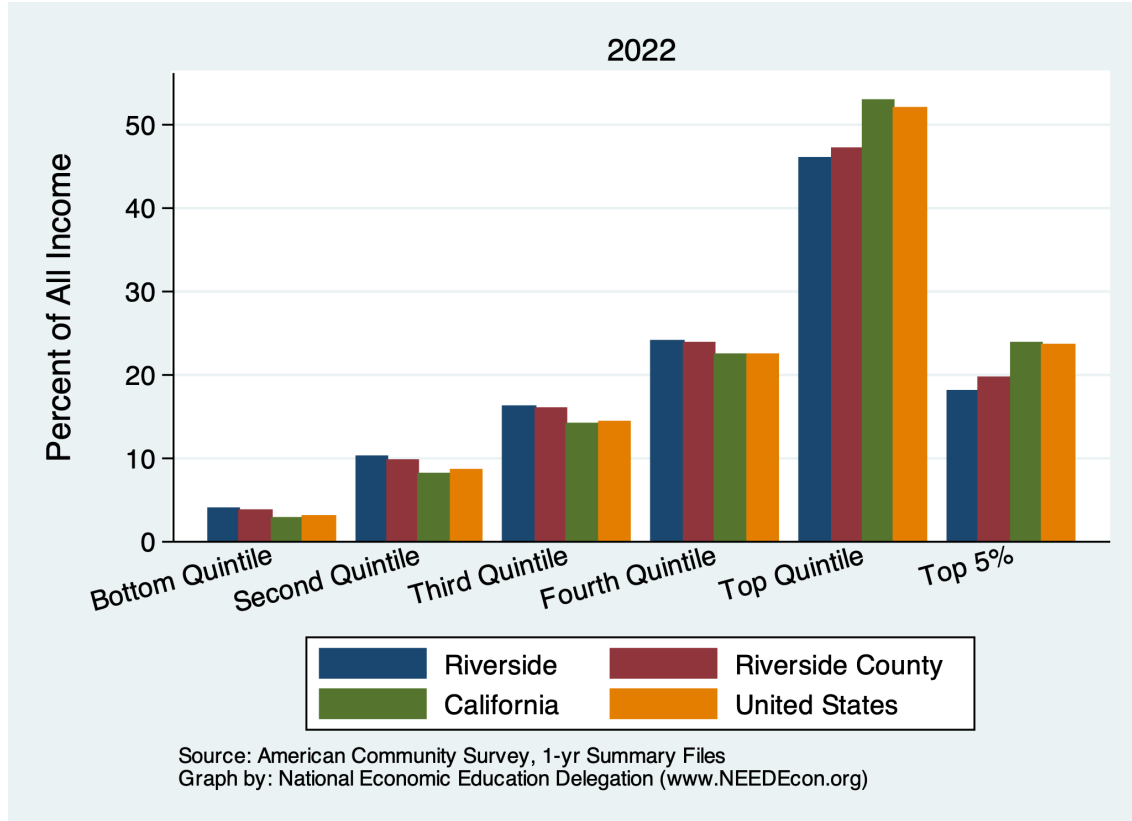
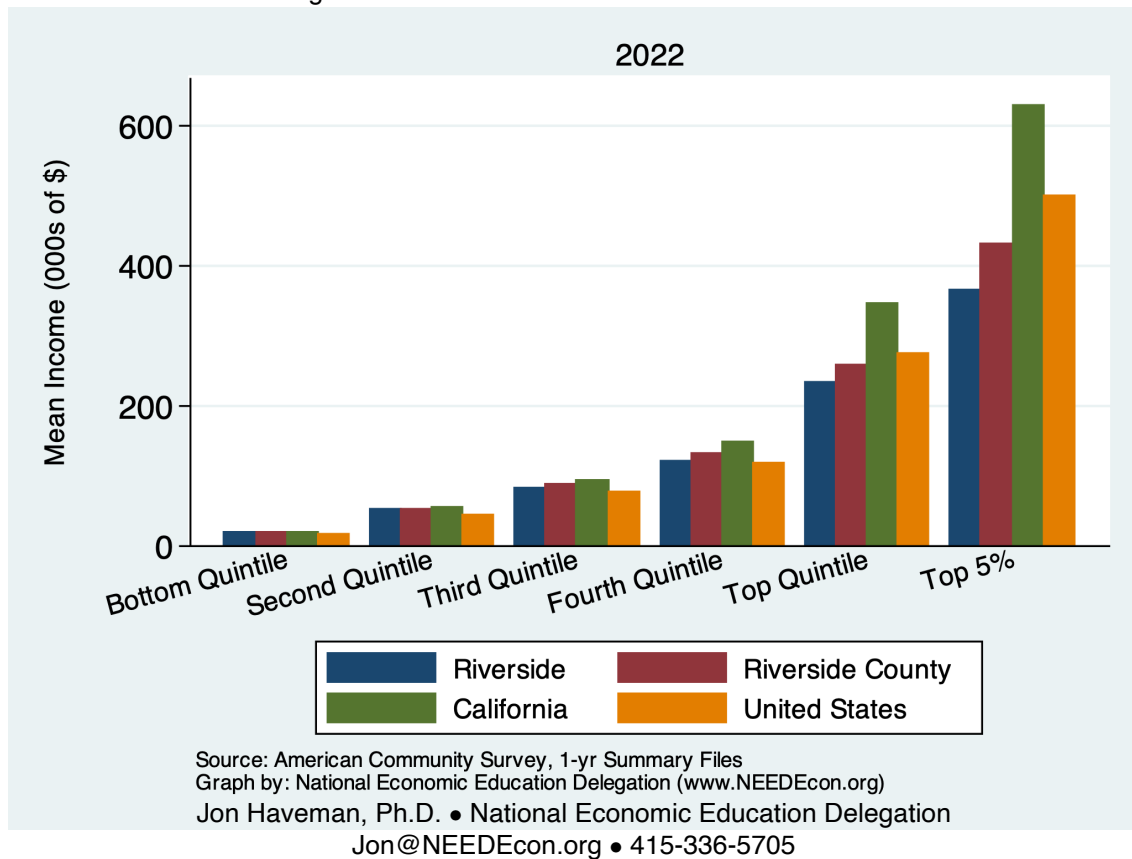


Figure 33: Means Across the Income Distribution



Housing

Housing Costs and Affordability

Definition:

Housing costs are measured in several different ways. First, we provide evidence on the evolution of median home prices, median rental price, and finally through evidence on the housing burden in the city and comparison regions. Housing burden is defined as a household needing to commit more than 30% of their household income toward housing costs. The median value is the amount in the middle. Fifty

percent of units are above the median and 50 percent are below.

Why is it important?

Housing is one of three fundamental necessities, along with food and clothing. A measure of the cost of housing is an integral part of the measurement of the cost of living in a specific community. This is particularly true in cities and regions throughout the Bay Area, where housing costs are high relative to income.

Cost of Housing in Riverside and Broader Regions

Figure 34: Median Home Prices

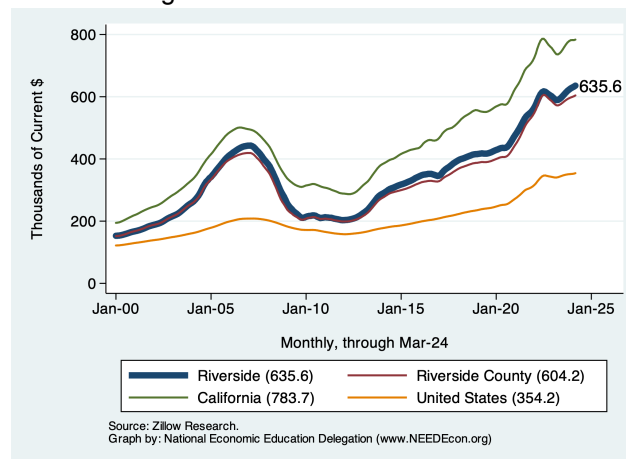
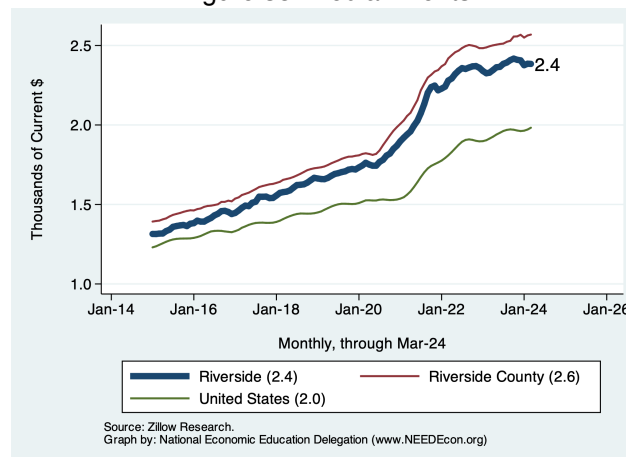


Figure 35: Median Rents



Housing Ownership in Riverside and Broader Regions

Figure 36: Home Ownership Rates

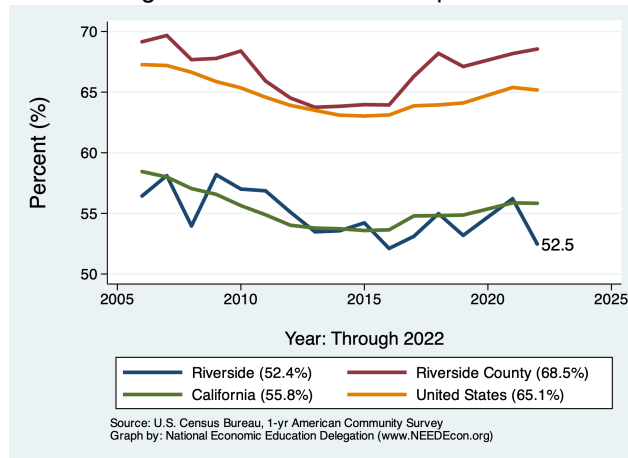


Figure 37: Home Ownership by Age

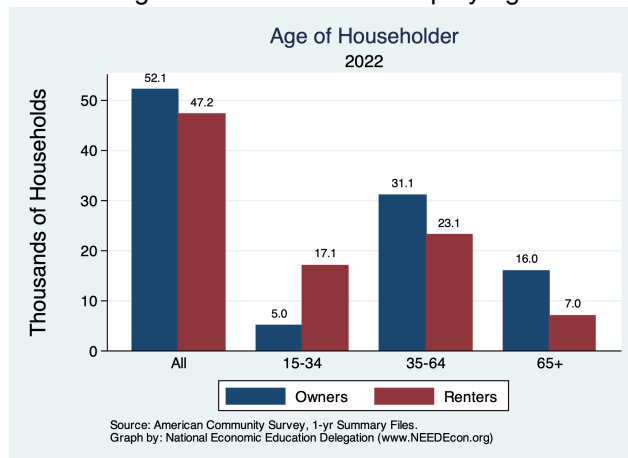


Figure 38: Income by Tenure

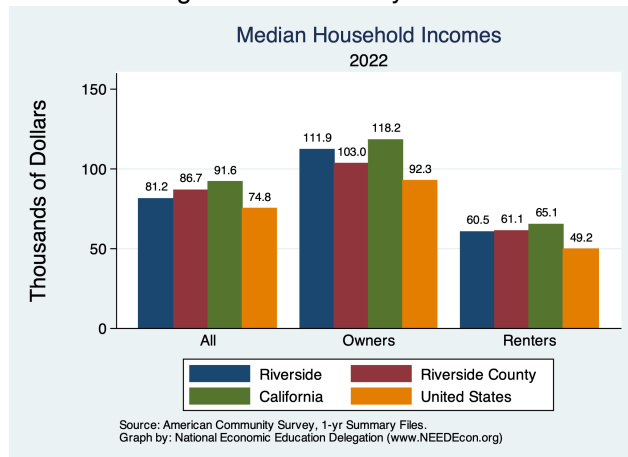


Figure 39: Income Distribution by Tenure

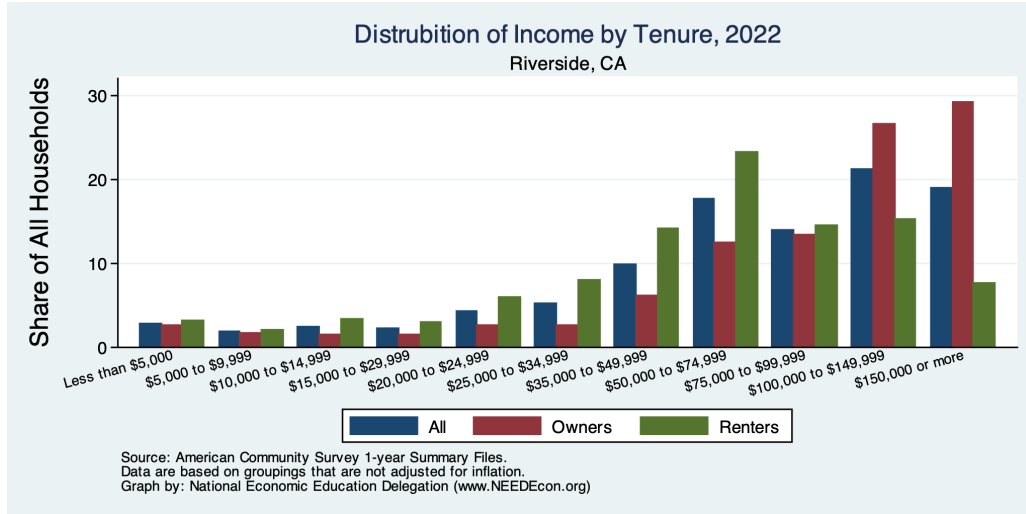


Figure 40: Income Distribution of Home Owners

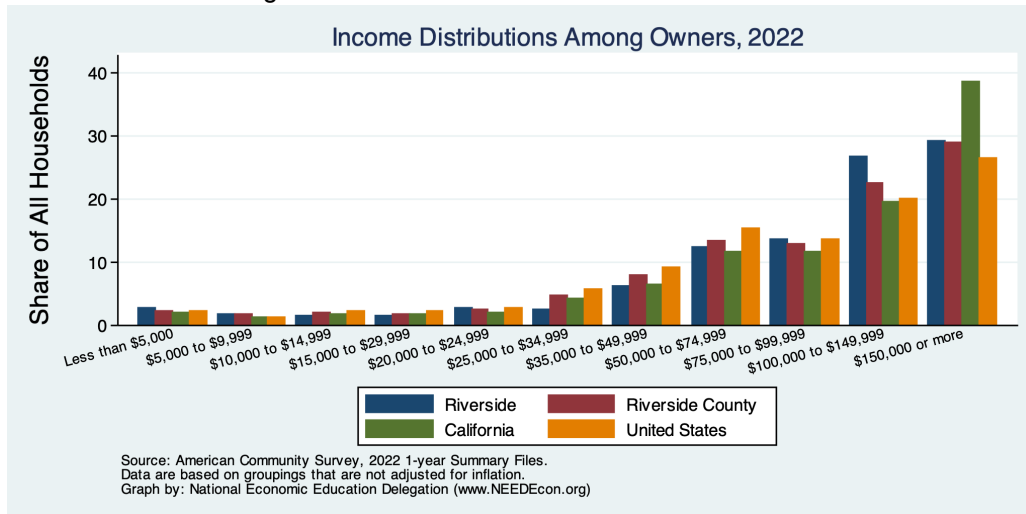
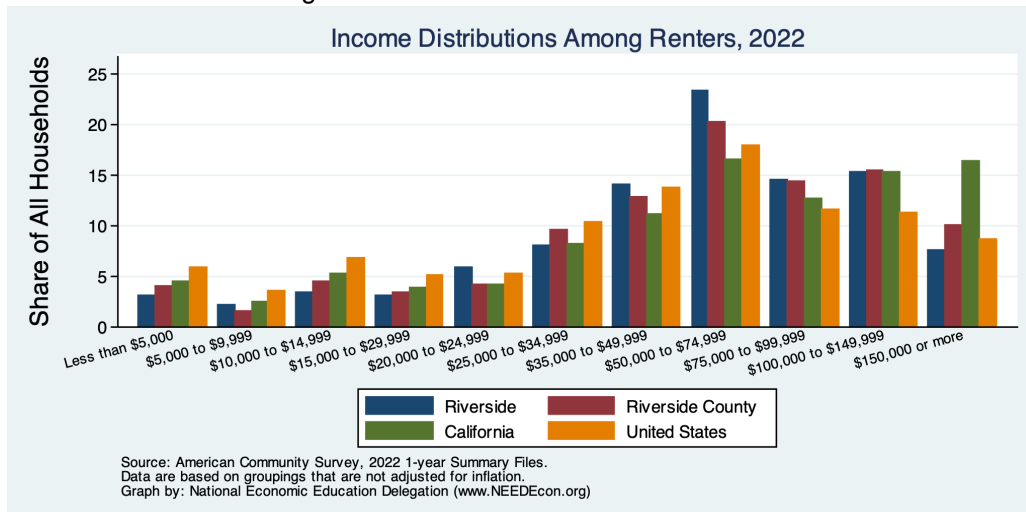


Figure 41: Income Distribution of Renters



Housing Burden in Riverside and Broader Regions

Figure 42: Home Owners w/ A Mortgage

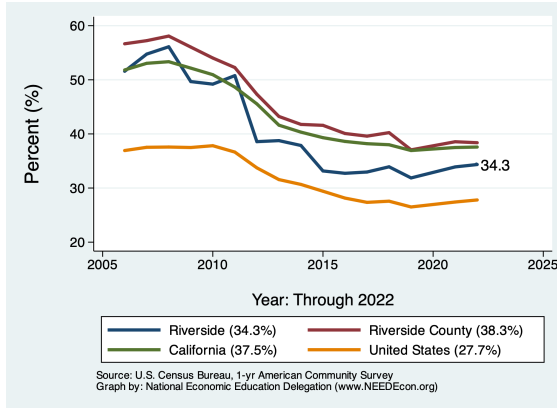


Figure 43: Home Owners w/o A Mortgage

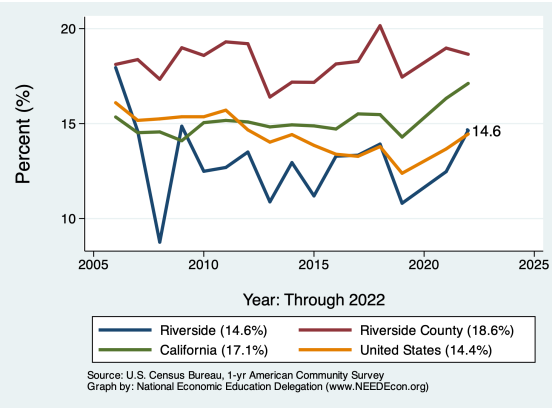


Figure 44: Renters

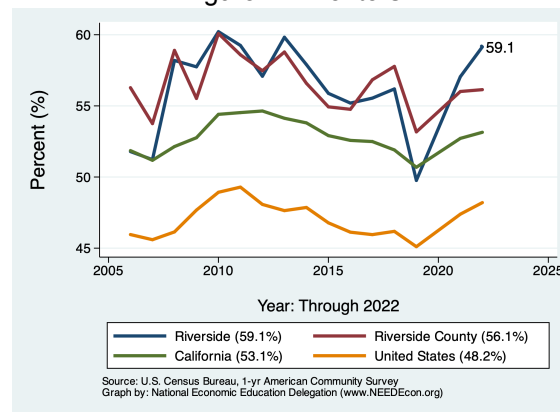
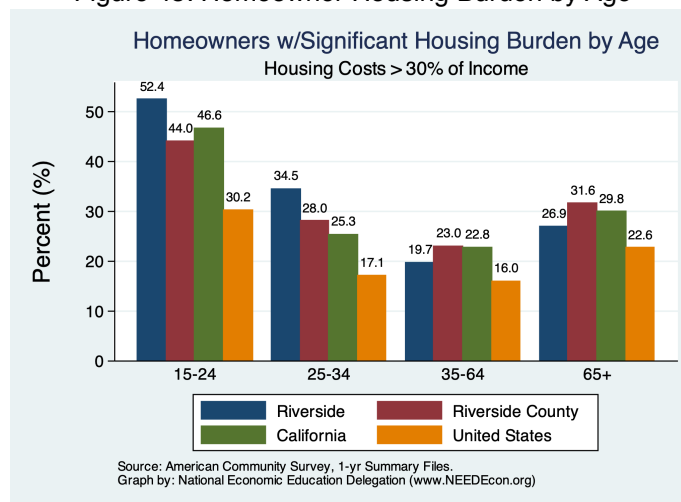


Figure 45: Homeowner Housing Burden by Age



Housing Picture

Definition:

Housing costs are measured in several different ways. First, we provide evidence on the evolution of median home prices, median rental price, and finally through evidence on the housing burden in the city and comparison regions. The median value is the amount in the middle. Fifty percent of units are above the median and 50 percent are below.

Why is it important?

In areas where the rate of population growth exceeds the rate of housing growth, this is likely to reflect a tightening housing market. A tightening housing market will also likely be reflected in lower vacancy rates and higher occupancy rates. It may also be reflected in higher numbers of people per household.

Table 5. Housing Market Indicators

Indicator	2023	2019	2010	% Change from 2019 2010	
Total Population	313,676.0	326,427.0	303,871.0	-3.9	3.2
Total # of Homes	101,196.0	100,760.0	98,444.0	0.4	2.8
# Occupied Units	97,159.0	95,857.0	91,932.0	1.4	5.7
Persons per Household	3.0	3.3	3.2	-7.0	-4.1
Vacancy Rate (%)	4.0	4.9	6.6	-18.0	-39.7

Source: CA DOF; Calculations by the National Economic Education Delegation

Figure 46: Housing Growth

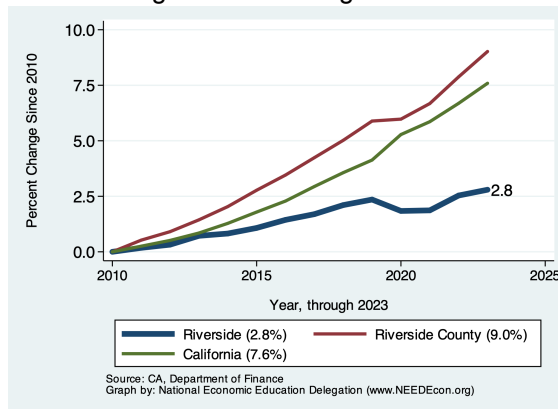


Figure 47: Persons per Household

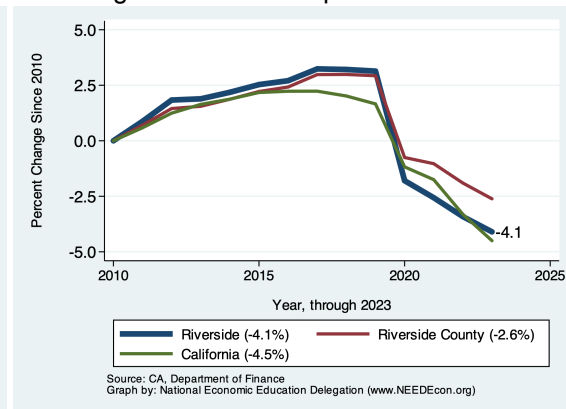


Figure 48: Vacancy Rates

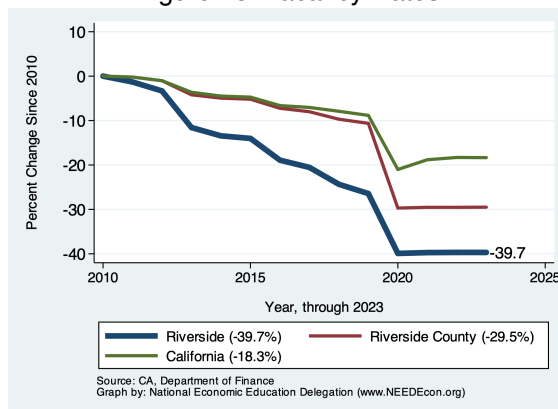
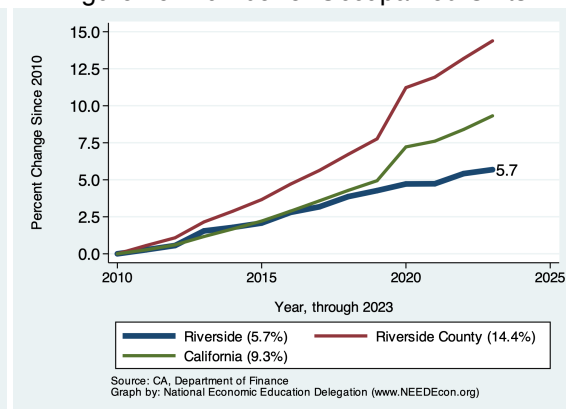


Figure 49: Number of Occupanied Units



Trends in the Growth of Housing by Housing Type

Figure 50: Single Detached Homes

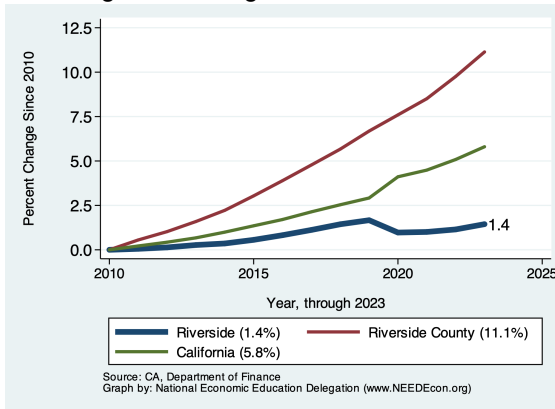


Figure 51: Single Attached Homes

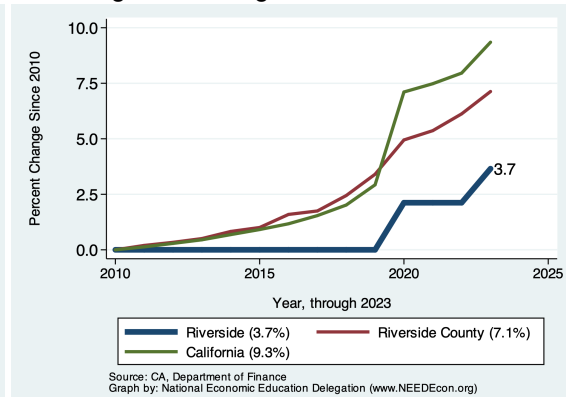


Figure 52: Housing in Buildings with Two to Four Units

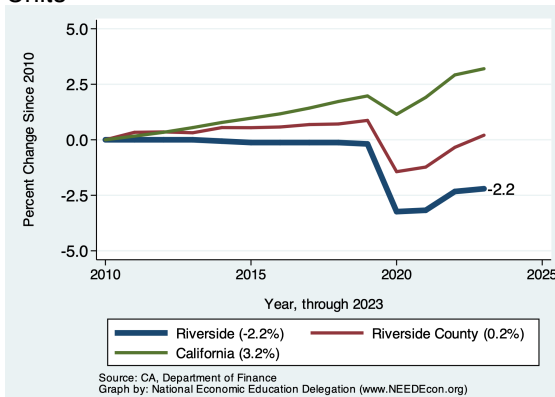
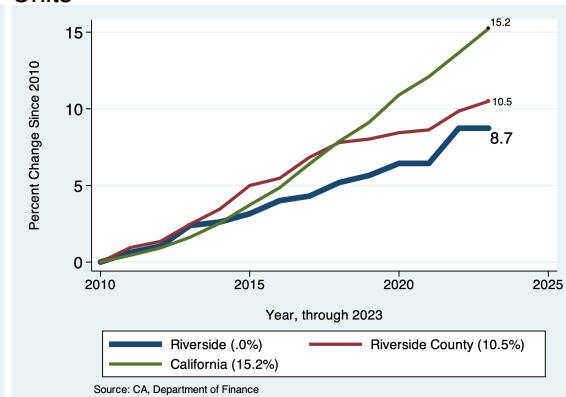


Figure 53: Housing in Buildings with Five or More Units



Vintage of Residential Housing

Why is it important?

This section provides evidence on the year in which residential housing in Riverside was built. We break it down into owned versus rented residences and provide a comparison across Riverside County and broader regions. A sense of the age of housing in a region provides an indication of the urgency with which a region might pursue additional housing. As the

housing stock ages, an urgency with which renovations and rebuilds are permitted might result. All things equal, more recently constructed housing will be more likely to meet current codes and standards. Remodeling of existing units will be more desirable when existing units are, on average, older.

Figure 54: Distribution of Housing Construction

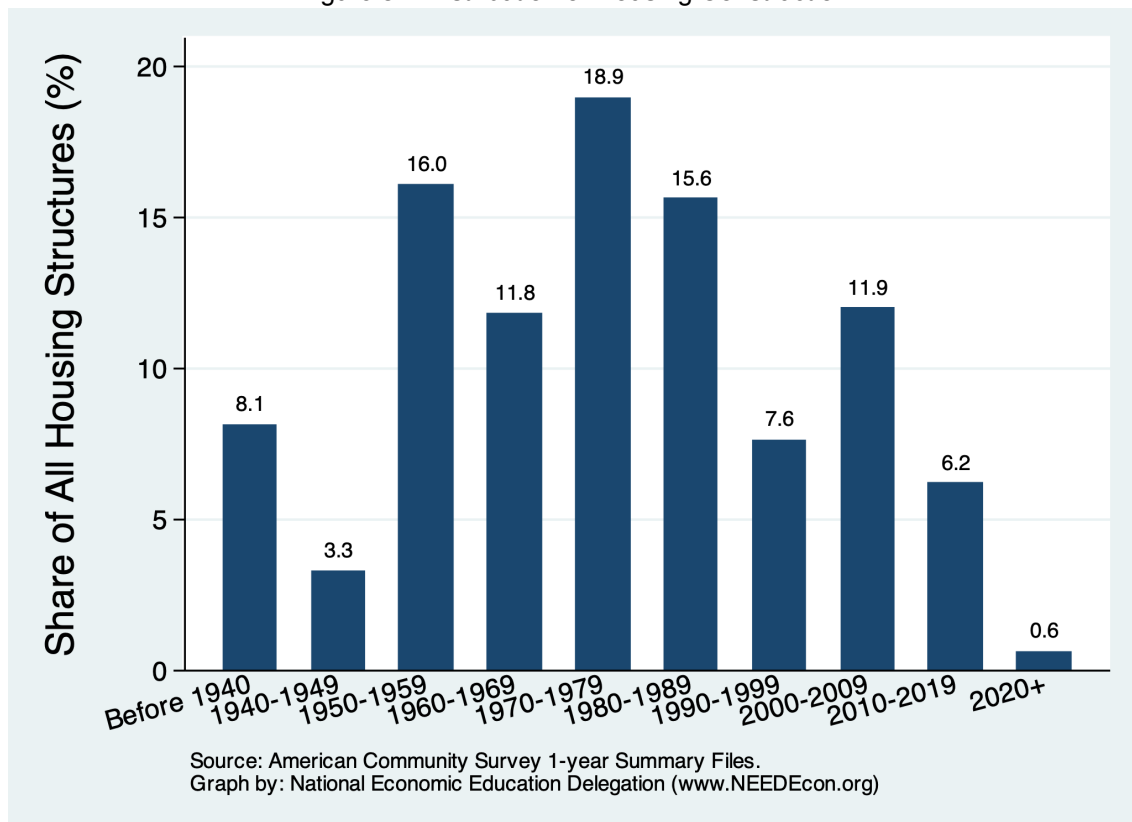


Figure 55: Housing Vintage across Regions

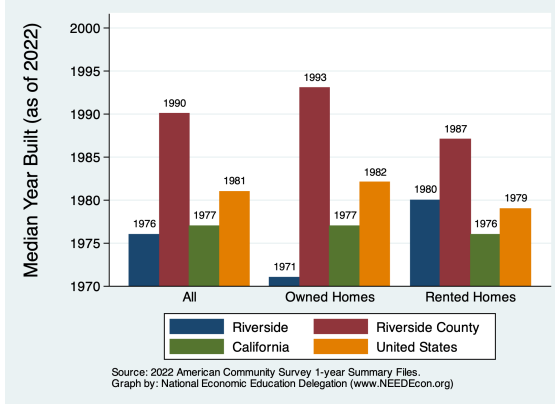


Figure 56: Housing Vintage by Tenure

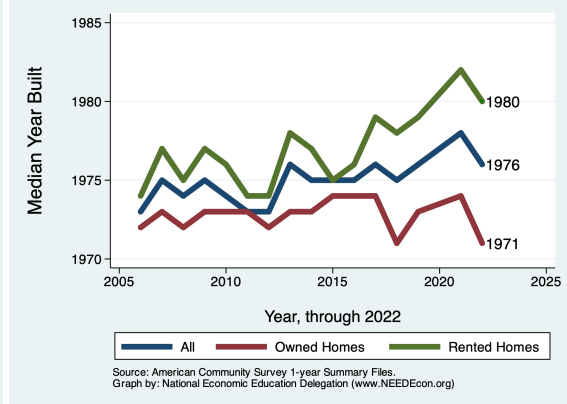


Figure 57: Vintage of Owned Residences

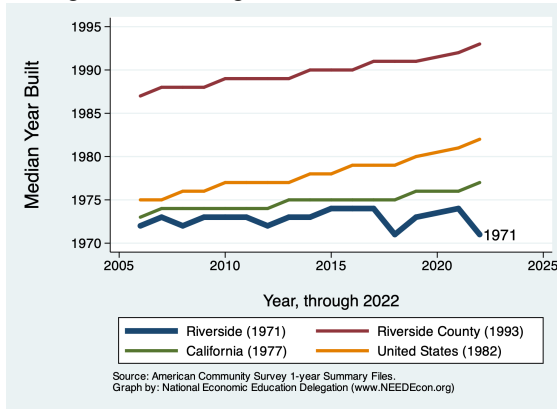


Figure 58: Vintage of Rented Residences

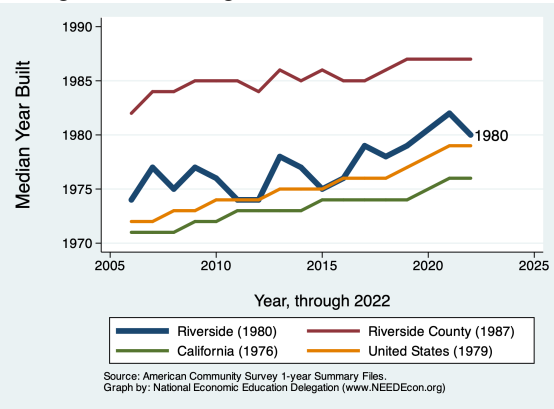
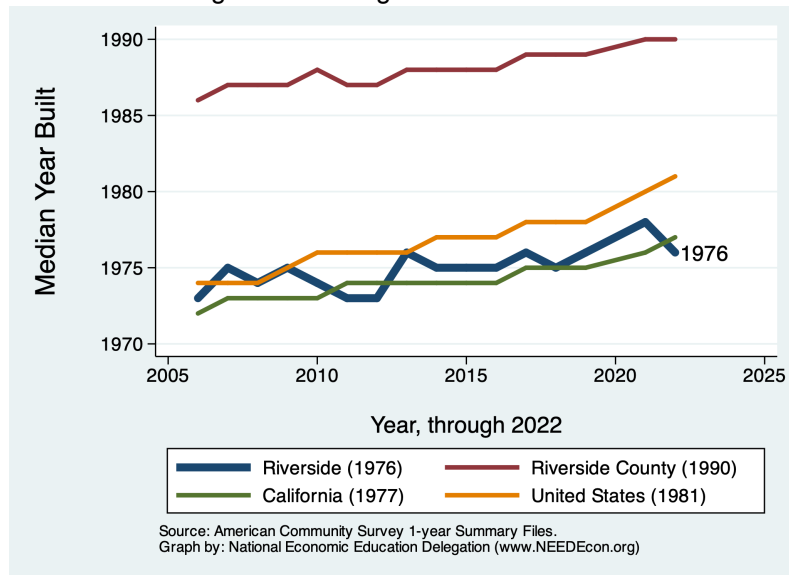


Figure 59: Vintage of All Residences



Occupation of Residential Housing

Why is it important?

The duration of residence in a city is important for developing future policies regarding growing the local population. If a region is highly mobile, evidenced by most residences having

been recently occupied, a city might propose policies to reduce that mobility, or ask why the mobility happens. Policies could be put in place to either reduce or increase migration.

Figure 60: Year Current Occupant Moved In

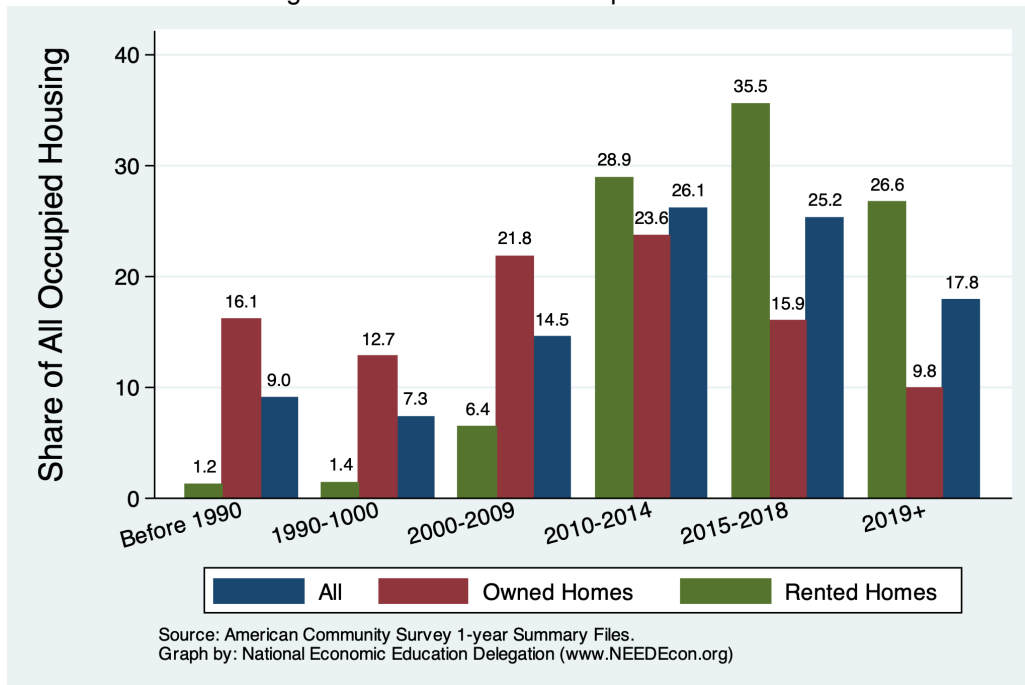


Figure 61: Year Occupied by Current Residents across Regions

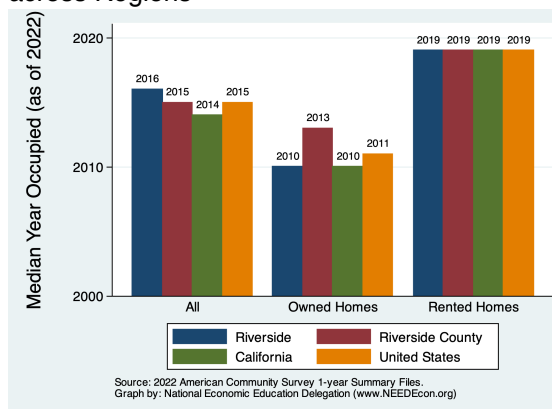


Figure 62: Year Occupied by Current Residents by Tenure

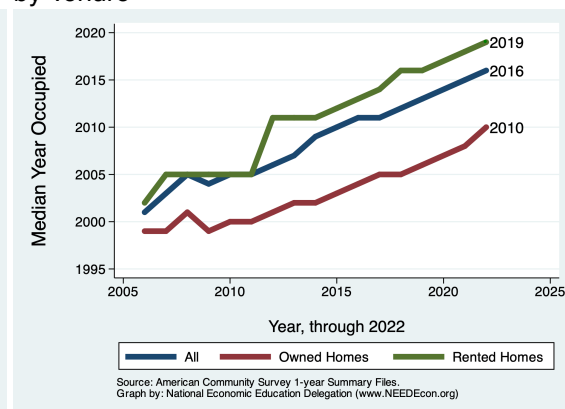


Figure 63: Year Occupied by Current Residents for Owned Housing

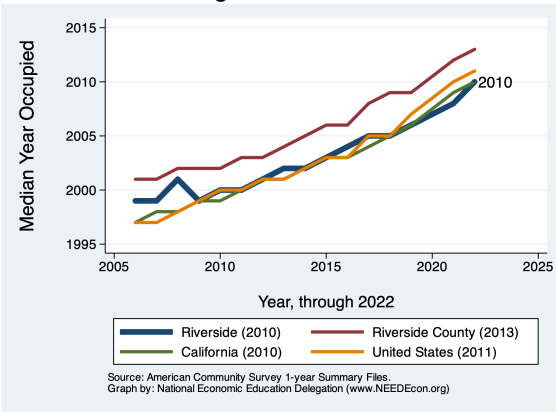


Figure 64: Year Occupied by Current Residents for Rented Housing

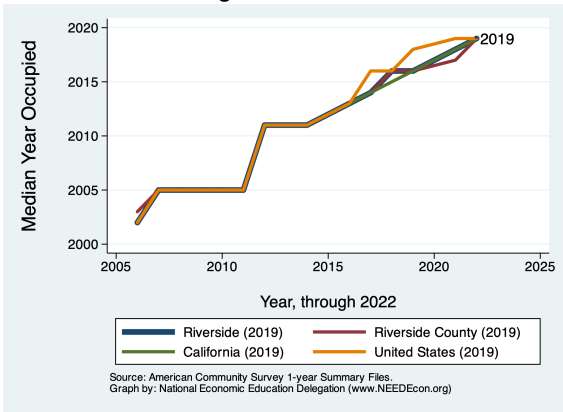
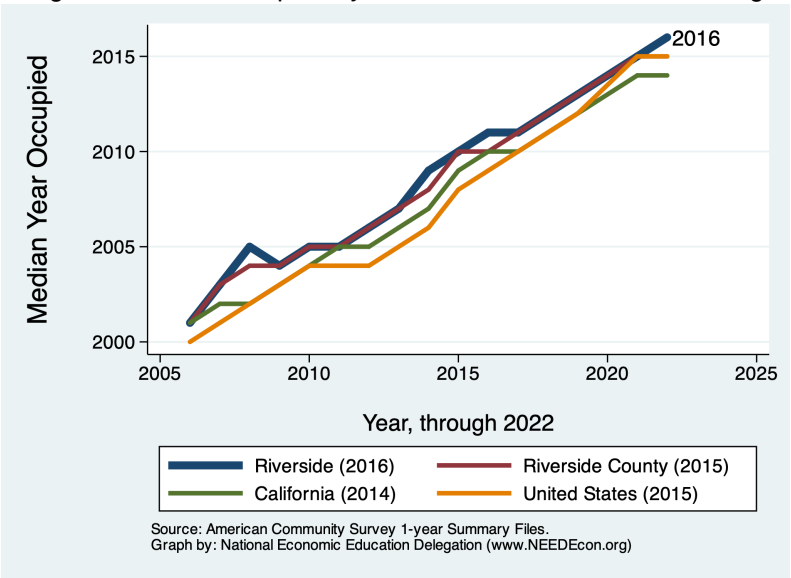


Figure 65: Year Occupied by Current Residents for All Housing



Residential Permitting

Definition:

This indicator provides evidence on the number of residential buildings that are permitted for construction each year. Permit data for Riverside is compared with data from Riverside County as a whole and broader regions. The statistic provided scales the number of permits by population. This is done to facilitate comparisons across regions.

Why is it important?

Building permits are the best indicator available of new units coming on the market. In order for a region's population to grow and flourish, new residential properties must be added to the existing stock. Building, both in the City and in the County more generally, is an indication of the extent to which new residences accommodate new residents or are affecting prices through increased supply.

Riverside - Ranking Among Comparables

Figure 66: Number of Units Permitted - Nationwide Comparables (Rank)

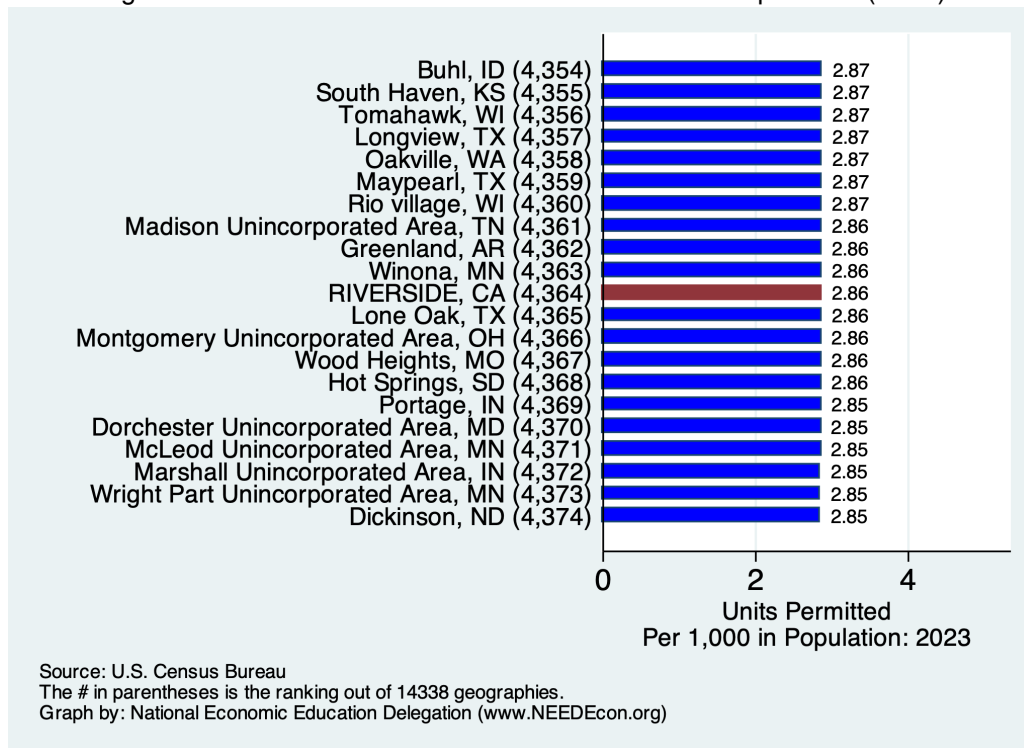
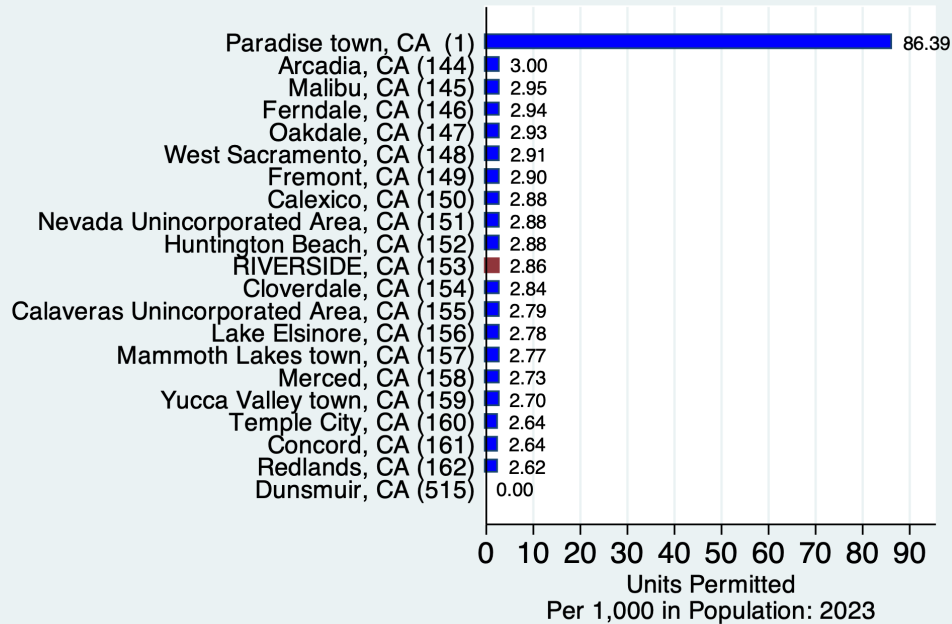
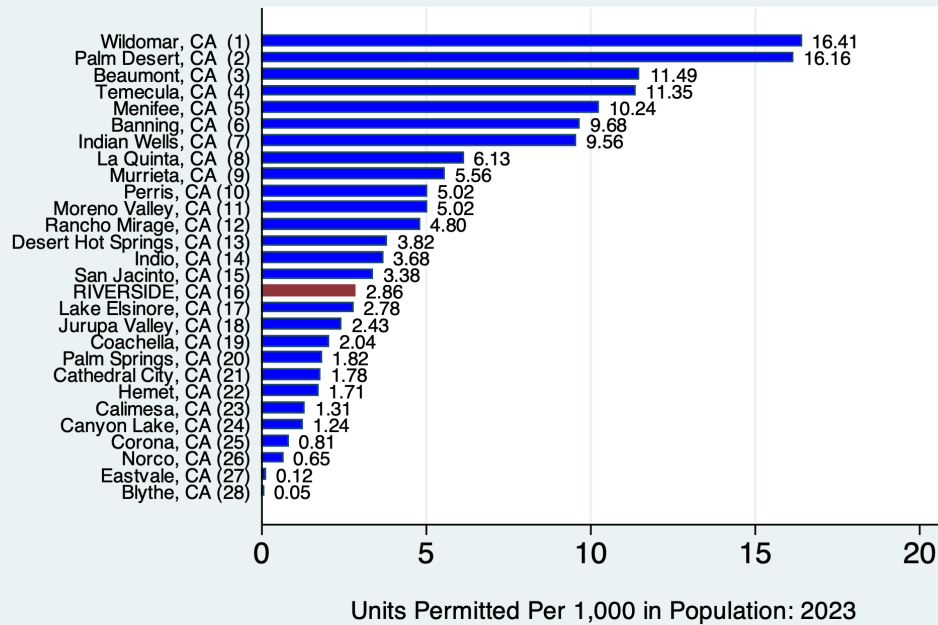


Figure 67: Number of Units Permitted - California Comparables (Rank)



Source: U.S. Census Bureau.
 The # in parentheses is the ranking out of 515 geographies.
 Graph by: National Economic Education Delegation (www.NEEDecon.org)

Figure 68: Number of Units Permitted - Cities in Riverside County (Rank)



Source: U.S. Census Bureau,
 The # in parentheses is the ranking out of 28 geographies.
 Graph by: National Economic Education Delegation (www.NEEDecon.org)

Riverside - Permitting Activity

Annual Units Permitted - Per Capita in Riverside

Figure 69: Units Permitted Each Year

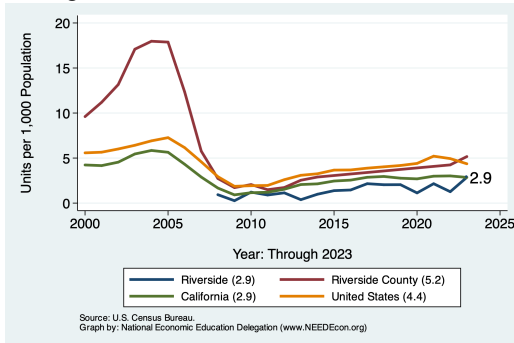
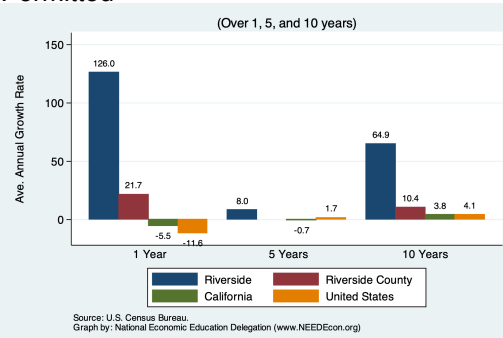


Figure 70: Average Annual Growth in Units Permitted



Annual Number of Buildings Permitted - Per Capita in Riverside

Figure 71: Units Permitted Each Year

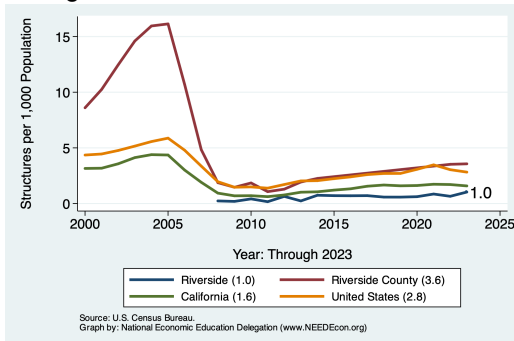
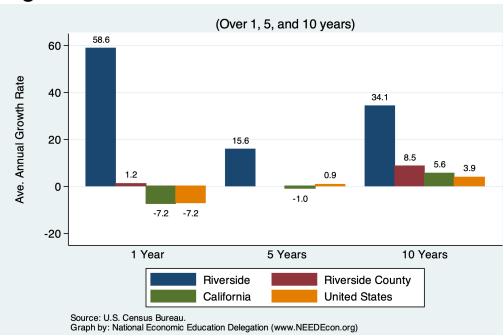


Figure 72: Average Annual Growth in Buildings Permitted



Annual Value of Property Permitted - Per Capita in Riverside

Figure 73: Value Permitted Each Year

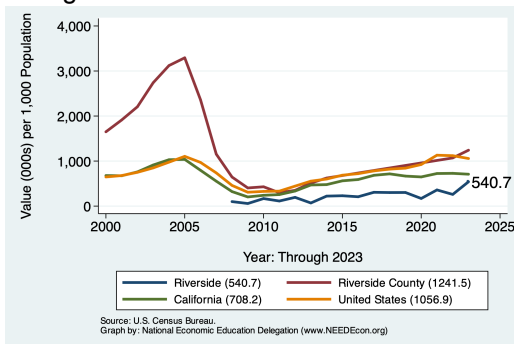
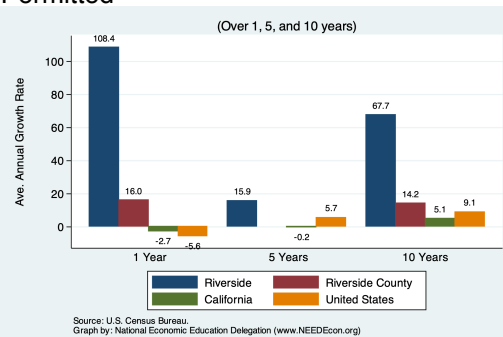


Figure 74: Average Annual Growth in Value Permitted



Commute Patterns

During the recovery from the Great Recession, the period from 2010 to 2019, the Bay Area economy, and Silicon Valley in particular, has been growing at a pace roughly double that of the state as a whole and triple that of the nation. This growth has precipitated a tight hous-

ing market and also brought about some significant changes in commute patterns, many of which have been reversed by the pandemic. Recent years have seen significant changes in both the mode of transportation and commute times.

Mode of Transportation

Figure 75: Percent of Workers Commuting by Car Alone

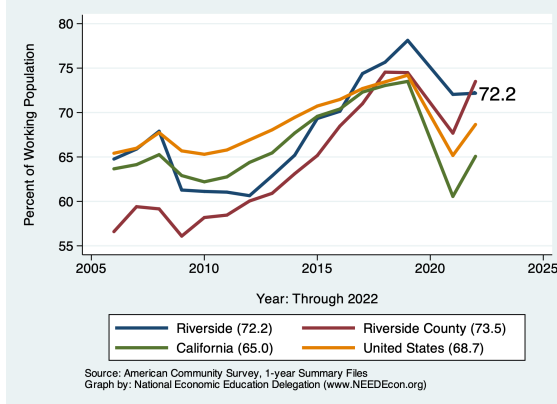


Figure 76: Percent of Workers Commuting by Carpool

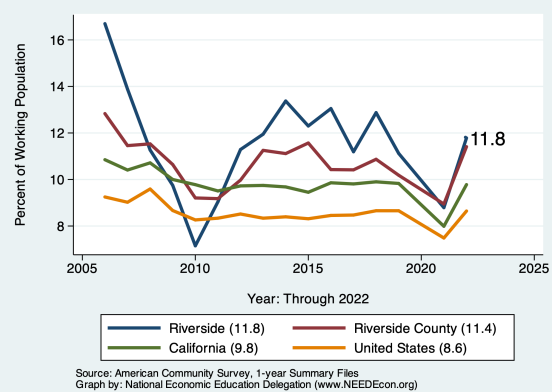


Figure 77: Percent of Workers using Public Transportation

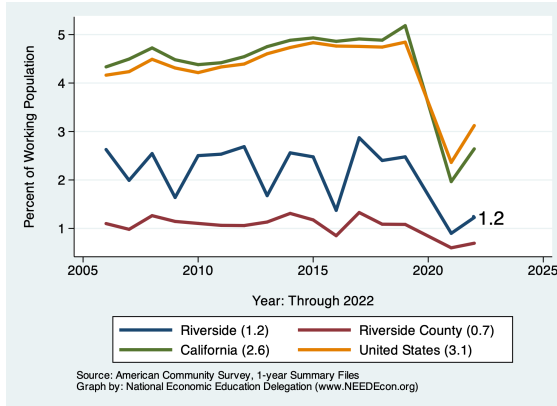
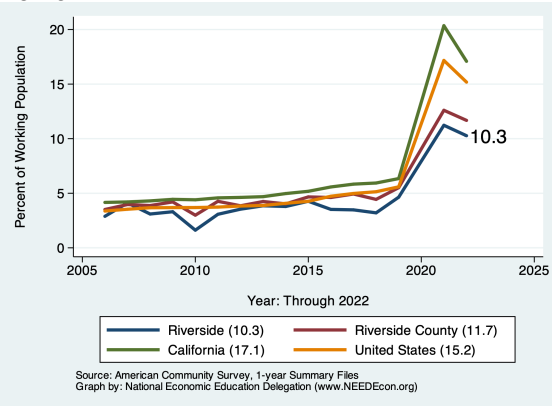


Figure 78: Percent of Workers Who Work From Home



The first table on this page presents data for those who LIVE in Riverside. The second provides data on those who work, but do not necessarily live in Riverside. The final two columns provide for a comparison of commute mode choices of people locally with those in California more broadly.

Table 6. SEX OF WORKERS BY MODE OF TRANSPORTATION TO WORK

Mode of Transit	Male		Female		All Workers		All of CA (%)
	#	(%)	#	(%)	#	(%)	
Car, Truck, or Van:	70,052	81.0	60,594	81.9	130,646	84.0	75.3
Drove Alone	60,918	70.5	51,390	69.4	112,308	72.2	65.5
Carpooled:	9,134	10.6	9,204	12.4	18,338	11.8	9.8
In 2-person carpool	6,532	7.6	5,430	7.3	11,962	7.7	7.0
In 3-person carpool	1,090	1.3	1,587	2.1	2,677	1.7	1.7
In 4-or-more-person carpool	1,512	1.7	2,187	3.0	3,699	2.4	1.2
Public Transportation (excl Taxi):	817	0.9	1,090	1.5	1,907	1.2	2.7
Bus or Trolley Bus	452	0.5	748	1.0	1,200	0.8	1.8
Streetcar or Trolley Car	0	0.0	0	0.0	0	0.0	0.5
Subway or Elevated	276	0.3	247	0.3	523	0.3	0.2
Railroad	89	0.1	95	0.1	184	0.1	0.1
Ferryboat	0	0.0	0	0.0	0	0.0	0.1
Bicycle	1,066	1.2	214	0.3	1,280	0.8	0.7
Walked	1,861	2.2	1,510	2.0	3,371	2.2	2.4
Taxicab, Motorcycle, or other	1,025	1.2	1,267	1.7	2,292	1.5	1.7
Worked at Home	6,637	7.7	9,347	12.6	15,984	10.3	17.2
Total:	81,458	94.2	74,022	100.0	155,480	99.9	

Source: 2022 1-year American Community Survey, Summary File

Table 7. SEX OF WORKERS BY MODE OF TRANSPORTATION TO WORK FOR WORKPLACE GEOGRAPHY

Mode of Transit	Male		Female		All Workers		All of CA (%)
	#	(%)	#	(%)	#	(%)	
Car, Truck, or Van:	80,155	80.7	70,913	79.8	151,068	80.9	75.3
Drove Alone	71,195	71.7	62,002	69.8	133,197	71.3	65.5
Carpooled:	8,960	9.0	8,911	10.0	17,871	9.6	9.8
In 2-person carpool	6,811	6.9	6,350	7.1	13,161	7.0	7.0
In 3-person carpool	1,041	1.0	1,349	1.5	2,390	1.3	1.7
In 4-or-more-person carpool	1,108	1.1	1,212	1.4	2,320	1.2	1.2
Public Transportation (excl Taxi):	744	0.7	732	0.8	1,476	0.8	2.6
Bus or Trolley Bus	696	0.7	732	0.8	1,428	0.8	1.8
Streetcar or Trolley Car	0	0.0	0	0.0	0	0.0	0.5
Subway or Elevated	48	0.0	0	0.0	48	0.0	0.2
Railroad	0	0.0	0	0.0	0	0.0	0.1
Ferryboat	0	0.0	0	0.0	0	0.0	0.1
Bicycle	1,145	1.2	479	0.5	1,624	0.9	0.7
Walked	1,325	1.3	1,392	1.6	2,717	1.5	2.4
Taxicab, Motorcycle, or other	1,089	1.1	1,343	1.5	2,432	1.3	1.7
Worked at Home	6,637	6.7	9,347	10.5	15,984	8.6	17.2
Total:	91,095	91.7	84,206	94.8	175,301	93.9	

Source: 2022 1-year American Community Survey, Summary File

The results in this table are for those who work in the region, regardless of the location of their residence.

Commute Times for Employed Residents

Table 8. SEX OF WORKERS BY TRAVEL TIME TO WORK

Mode of Transit	Male		Female		All Workers		All of CA (%)
	#	(%)	#	(%)	#	(%)	
Less than 5 minutes	722	0.9	752	1.1	1,474	1.0	2.1
5 to 9 minutes	6,445	7.8	4,276	6.3	10,721	7.2	7.8
10 to 14 minutes	6,865	8.4	9,458	13.9	16,323	11.0	12.4
15 to 19 minutes	9,113	11.1	9,553	14.1	18,666	12.5	15.4
20 to 24 minutes	10,444	12.7	13,285	19.6	23,729	15.9	14.8
25 to 29 minutes	3,525	4.3	2,844	4.2	6,369	4.3	6.4
30 to 34 minutes	10,476	12.8	9,902	14.6	20,378	13.7	15.2
35 to 39 minutes	2,043	2.5	2,184	3.2	4,227	2.8	2.9
40 to 44 minutes	3,769	4.6	1,872	2.8	5,641	3.8	4.1
45 to 59 minutes	8,205	10.0	4,773	7.0	12,978	8.7	8.2
60 to 89 minutes	9,643	11.7	4,483	6.6	14,126	9.5	7.2
90 or more minutes	3,571	4.3	1,293	1.9	4,864	3.3	3.6
Total:	74,821	91.1	64,675	95.4	139,496	93.7	

Source: 2022 1-year American Community Survey, Summary File

Figure 79: Percent of Employed Population With Commutes of More than 30 Minutes

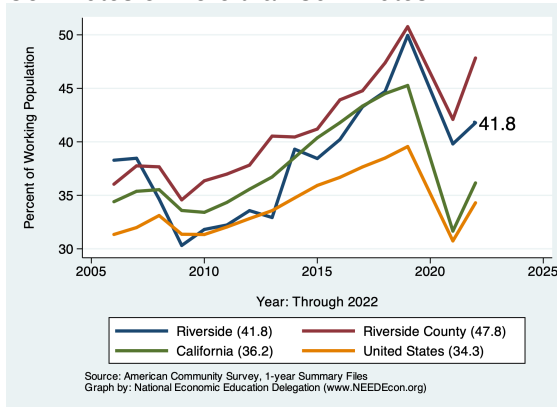


Figure 80: Percent of Employed Population With Commutes of More than 90 Minutes

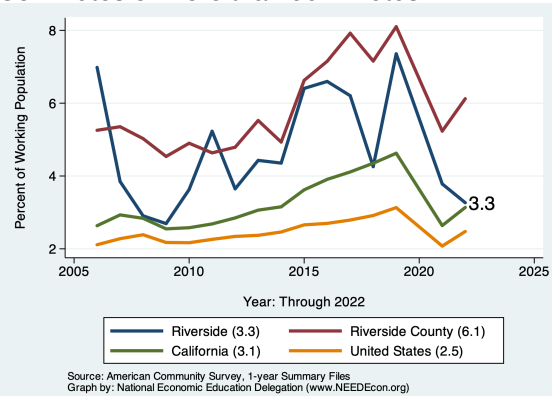
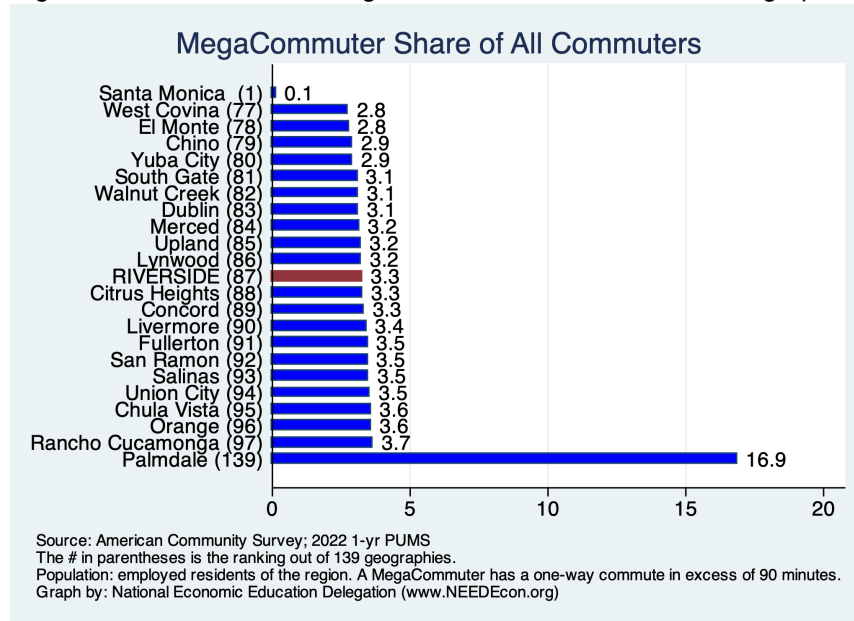


Figure 81: Rank: Share of MegaCommuters Across Similar Geographies



Commute Times for Those Employed in the City

**Table 9. SEX OF WORKERS BY TRAVEL TIME TO WORK FOR
WORKPLACE GEOGRAPHY**

Mode of Transit	Male		Female		All Workers		All of CA (%)
	#	(%)	#	(%)	#	(%)	
Less than 5 minutes	992	1.0	769	0.9	1,761	1.0	2.1
5 to 9 minutes	5,084	5.2	4,921	5.7	10,005	5.5	7.8
10 to 14 minutes	8,661	8.9	9,751	11.3	18,412	10.1	12.4
15 to 19 minutes	10,445	10.8	10,920	12.7	21,365	11.8	15.3
20 to 24 minutes	11,349	11.7	13,586	15.8	24,935	13.7	14.8
25 to 29 minutes	5,084	5.2	4,547	5.3	9,631	5.3	6.4
30 to 34 minutes	14,400	14.8	13,961	16.2	28,361	15.6	15.2
35 to 39 minutes	2,568	2.6	2,394	2.8	4,962	2.7	2.9
40 to 44 minutes	3,319	3.4	3,360	3.9	6,679	3.7	4.1
45 to 59 minutes	8,636	8.9	5,007	5.8	13,643	7.5	8.2
60 to 89 minutes	9,470	9.7	4,490	5.2	13,960	7.7	7.2
90 or more minutes	4,450	4.6	1,153	1.3	5,603	3.1	3.6
Total:	84,458	86.9	74,859	87.1	159,317	87.7	

Source: 2022 1-year American Community Survey, Summary File

The results in this table are for those who work in the region, regardless of the location of their residence.

Figure 82: Percent of Local Employees With Commutes of More than 30 Minutes

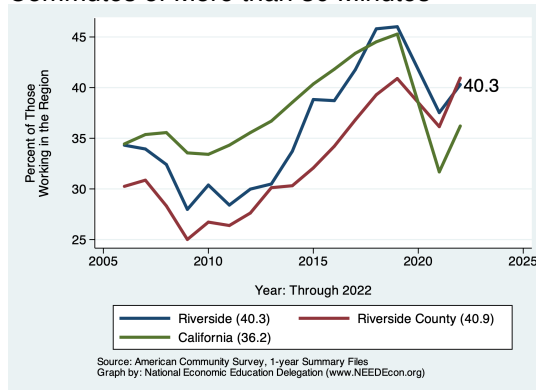


Figure 83: Percent of Local Employees With Commutes of More than 90 Minutes

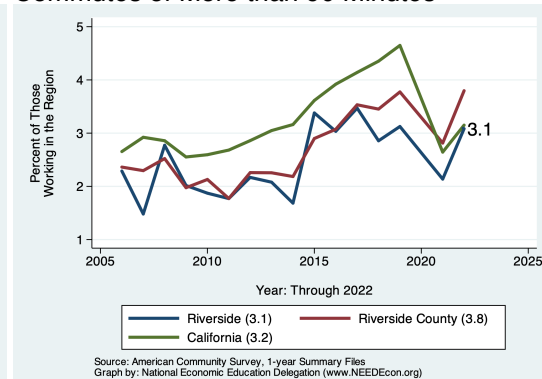
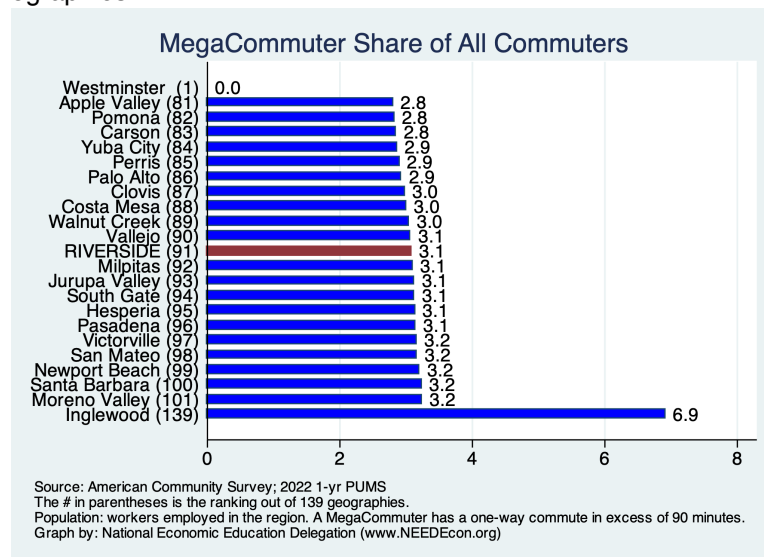


Figure 84: Rank: Share of MegaCommuters Across Similar Geographies



Place of Work

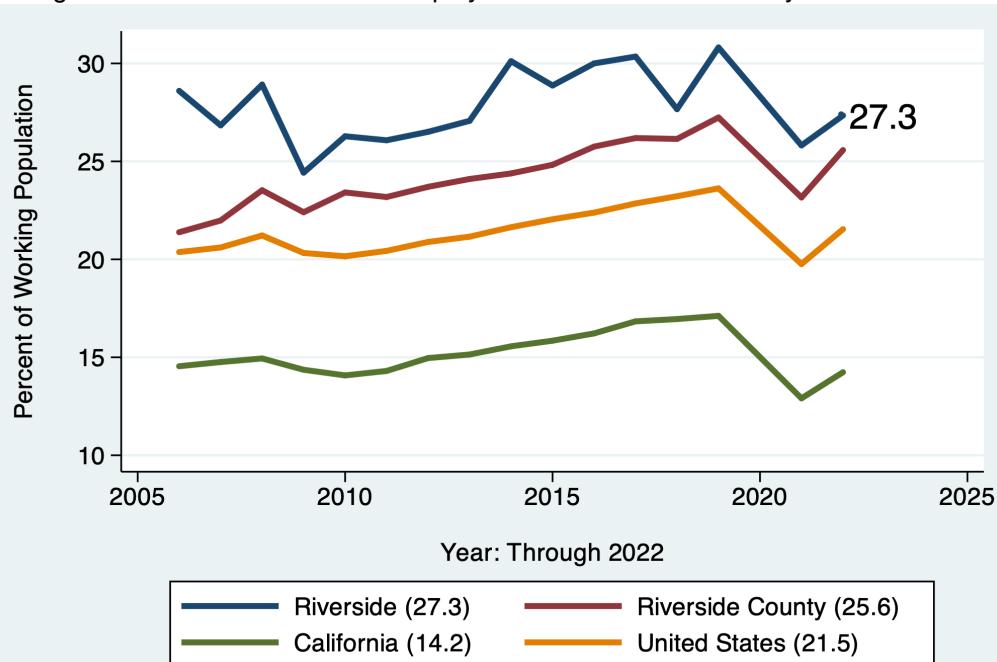
This section provides evidence on where workers living in Riverside work. As evidenced in the first table, some of Riverside's employed workers work in the City, but many do not. The first table and graph pair provide evidence at the county level while the second provide evidence with regard to working outside of the Riverside city boundary.

Table 10. SEX OF WORKERS BY PLACE OF WORK—STATE AND COUNTY LEVEL

Place of Work	Male		Female		All Workers		All of CA (%)
	#	(%)	#	(%)	#	(%)	
Worked in state of residence:	81,274	94.0	73,589	99.4	154,863	99.5	99.6
Worked in county of residence	55,196	63.9	57,122	77.2	112,318	72.2	85.3
worked outside of county of residence	26,078	30.2	16,467	22.2	42,545	27.3	14.3
Worked outside state of residence	184	0.2	433	0.6	617	0.4	0.4
Total:	81,458	94.2	74,022	100.0	155,480	99.9	

Source: 2022 1-year American Community Survey, Summary File

Figure 85: Percent of Workers Employed Outside of Their County of Residence



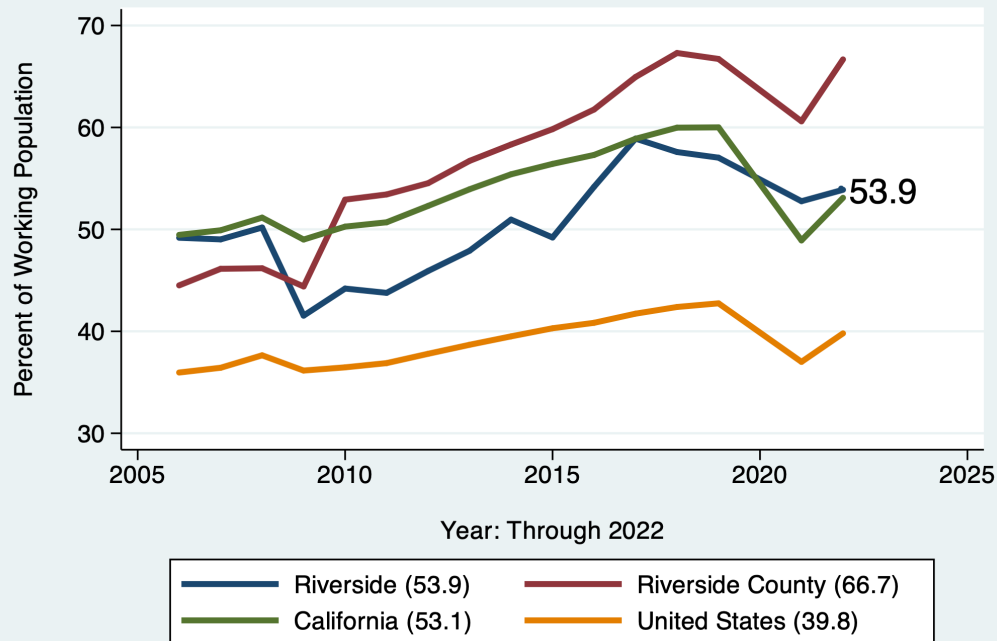
Source: American Community Survey, 1-year Summary Files
Graph by: National Economic Education Delegation (www.NEEDEcon.org)

Table 11. SEX OF WORKERS BY PLACE OF WORK-PLACE LEVEL

Place of Work	Male		Female		All Workers		All of CA (%)
	#	(%)	#	(%)	#	(%)	
Living in a place:	81,458	94.2	74,022	100.0	155,480	99.9	95.8
Worked in place of residence	33,224	38.4	38,407	51.9	71,631	46.0	42.3
Worked outside place of residence	48,234	55.8	35,615	48.1	83,849	53.9	53.4
Not living in a place	0	0.0	0	0.0	0	0.0	4.2
Total:	81,458	94.2	74,022	100.0	155,480	99.9	

Source: 2022 1-year American Community Survey, Summary File

Figure 86: Percent of Workers Employed Outside of Their Place of Residence



Source: American Community Survey, 1-year Summary Files
Graph by: National Economic Education Delegation (www.NEEDEcon.org)

Commute Mode by Income

**Table 12. MEDIAN EARNINGS IN THE PAST 12 MONTHS
BY MEANS OF TRANSPORTATION TO WORK**

	City Median	California Median	Ratio	United States Median	Ratio
Car, truck, or van - drove alone	41,691	48,335	105.0	45,677	103.4
Car, truck, or van - carpooled	36,790	35,926	124.6	34,518	120.7
Public transportation (excluding taxicab)	37,165	34,625	130.6	41,443	101.6
Walked	21,030	30,552	83.8	27,247	87.4
Taxicab, motorcycle, bicycle, or other means	31,324	40,631	93.8	36,218	98.0
Worked from home	47,594	79,738	72.6	69,180	77.9
Total:	40,936	49,818	82.2	46,365	88.3

Source: 2022 1-year American Community Survey, Summary File

Notes: 1) Ratio = the ratio of the regional median to either the CA or US median, relative to the Total ratio.

Values above 100 imply a high local median. Values below 100 imply a low local median.

For example, a value of 200 means that the local mean is 2x higher than would be expected.

For "Total:", ratio is simply the ratio of the medians.

2) For regions with more than one geography, the medians are averages weighted by working population.

Table 13. MODE OF TRANSPORTATION TO WORK BY WORKERS' EARNINGS

Mode of Transit	< \$25,000		\$25,000-\$74,999		\$75,000+		All	All of CA
	#	(%)	#	(%)	#	(%)	#	(%)
Car, Truck, or Van: Drove Alone	28,615	46.3	39,364	64.2	25,543	78.6	109,461	70.3
Car, Truck, or Van: Carpooled	5,900	9.6	5,514	9.0	2,452	7.5	16,096	10.3
Public Transportation (excl Taxi)	1,207	2.0	470	0.8	629	1.9	2,712	1.7
Walked	2,388	3.9	500	0.8	171	0.5	3,494	2.2
Taxicab, Motorcycle, or other	1,069	1.7	624	1.0	471	1.4	2,570	1.7
Worked at Home	3,555	5.8	4,145	6.8	3,230	9.9	11,884	7.6
Total:	42,734	69.2	50,617	82.6	32,496		146,217	94.0

Source: 2022 5-year American Community Survey, Summary File

**Table 14. MODE OF TRANSPORTATION TO WORK BY WORKERS' EARNINGS FOR
WORKPLACE GEOGRAPHY**

Mode of Transit	< \$25,000		\$25,000-\$74,999		\$75,000+		All	All of CA
	#	(%)	#	(%)	#	(%)	#	(%)
Car, Truck, or Van: Drove Alone	33,262	48.0	46,838	71.2	36,272	82.5	134,091	71.8
Car, Truck, or Van: Carpooled	6,145	8.9	5,716	8.7	3,506	8.0	18,231	9.8
Public Transportation (excl Taxi)	1,176	1.7	265	0.4	171	0.4	1,971	1.1
Walked	2,367	3.4	503	0.8	172	0.4	3,486	1.9
Taxicab, Motorcycle, or other	894	1.3	711	1.1	611	1.4	2,657	1.4
Worked at Home	3,555	5.1	4,145	6.3	3,230	7.3	11,884	6.4
Total:	47,399	68.3	58,178	88.5	43,962		172,320	92.3

Source: 2022 5-year American Community Survey, Summary File

The results in this table are for those who work in the region, regardless of the location of their residence.

Commute Mode by Poverty Status

Table 15. MODE OF TRANSPORTATION TO WORK BY POVERTY STATUS

Mode of Transit	In Poverty		100-149% of Pov		>150% of Pov		All		All of CA
	#	(%)	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van: Drove Alone	5,112	35.5	5,376	38.8	101,090	73.5	111,578	72.9	65.8
Car, Truck, or Van: Carpooled	1,781	12.4	707	5.1	15,742	11.4	18,230	11.9	9.8
Public Transportation (excl Taxi)	189	1.3	96	0.7	1,622	1.2	1,907	1.2	2.6
Walked	110	0.8	140	1.0	2,307	1.7	2,557	1.7	2.1
Taxicab, Motorcycle, or other	72	0.5	550	4.0	2,619	1.9	3,241	2.1	2.4
Worked at Home	343	2.4	1,034	7.5	14,121	10.3	15,498	10.1	17.2
Total:	7,607	52.8	7,903	57.0	137,501		153,011		

Source: 2022 1-year American Community Survey, Summary File

**Table 16. MODE OF TRANSPORTATION TO WORK BY POVERTY STATUS FOR
WORKPLACE GEOGRAPHY**

Mode of Transit	In Poverty		100-149% of Pov		>150% of Pov		All		All of CA
	#	(%)	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van: Drove Alone	5,407	33.1	6,603	46.0	120,753	74.1	132,763	72.5	65.8
Car, Truck, or Van: Carpooled	1,152	7.1	1,157	8.1	15,562	9.6	17,871	9.8	9.8
Public Transportation (excl Taxi)	348	2.1	173	1.2	955	0.6	1,476	0.8	2.6
Walked	110	0.7	140	1.0	1,665	1.0	1,915	1.0	2.1
Taxicab, Motorcycle, or other	72	0.4	604	4.2	3,137	1.9	3,813	2.1	2.4
Worked at Home	343	2.1	1,034	7.2	14,121	8.7	15,498	8.5	17.2
Total:	7,432	45.5	9,711	67.7	156,193	95.9	173,336	94.6	100.0

Source: 2022 1-year American Community Survey, Summary File

The results in this table are for those who work in the region, regardless of the location of their residence.

Migration

Overall Migration Flows

Definition:

The United States is a country with an increasingly mobile population. People move, migrate, from one place to another with increasing frequency.

Why is it important?

Having a handle on whether or not Riverside is a net recipient (migration inflows) or donor (mi-

gration outflows) of population is very important for understanding trends in the City's development. This section outlines migration patterns by age, education, income, marital status, and housing tenure. Understanding recent trends is very important for making policy, investment, and other decisions about the future. Also, understanding the extent to which the population is stable, or experiences significant turnover each year is helpful for planning purposes.

Figure 87: Overall Movements of Residents

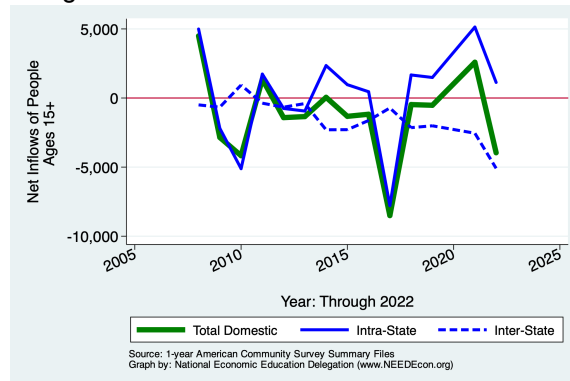


Table 17: Migration by Income

Category	Population	Net Inflows				
		All Migration	Same State		Across States	From Abroad
			W/in County	Between Counties		
No income	46,605	2,267	-428	1,469	-499	1,725
With income	216,590	-3,164	1,746	-1,658	-4,591	1,339
\$1 to \$9,999 or less	30,041	-711	87	127	-1,085	160
\$10,000 to \$14,999	18,821	-538	768	-1,154	-381	229
\$15,000 to \$24,999	27,233	907	691	414	-427	229
\$25,000 to \$34,999	27,655	-708	-249	-232	-554	327
\$35,000 to \$49,999	37,401	-803	653	-4	-1,510	58
\$50,000 to \$64,999	26,533	-336	136	-10	-596	134
\$65,000 to \$74,999	9,693	-555	-381	-105	-119	50
\$75,000 or more	39,213	-420	41	-694	81	152
All:	263,195	-897	1,318	-189	-5,090	3,064

Source: 2022 1-year American Community Survey, Summary File

Note: The data in this and other tables in this section are limited in that there is no information on the City's population that has moved abroad.

The "From Abroad" column is gross movements into the City from abroad.

Figure 88: Overall Movements of Low Income Residents

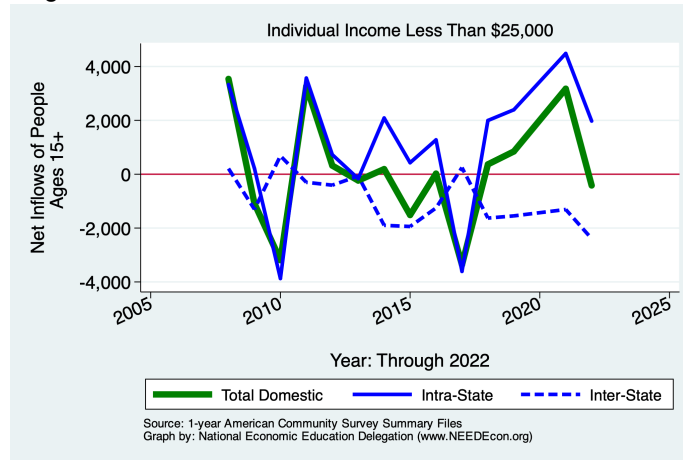


Figure 89: Overall Movements of Middle Income Residents

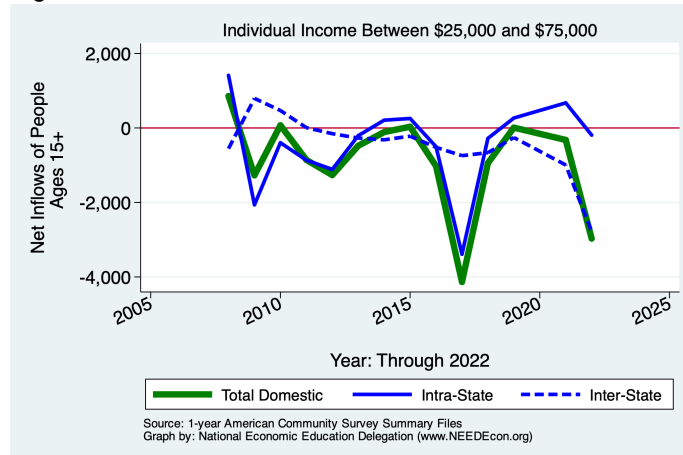
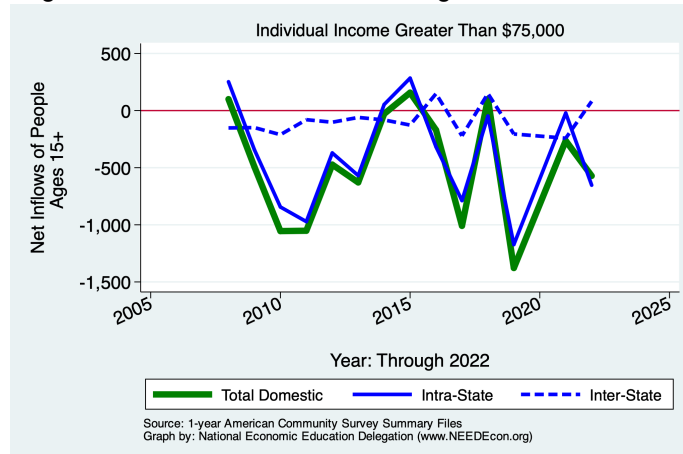


Figure 90: Overall Movements of High Income Residents



Demographics of Migration Flows

Table 18: Migration by Marital Status

Category	Population	All Migration	Net Inflows			
			Same State		Across States	From Abroad
			W/in County	Between Counties		
Never married	116,551	106	1,471	641	-3,397	1,391
Now married, except separated	107,669	-1,997	-510	-1,566	-1,179	1,258
Divorced	23,704	1,034	386	815	-454	287
Separated	4,691	57	101	-72	28	0
Widowed	10,580	-97	-130	-7	-88	128
Total:	263,195	-897	1,318	-189	-5,090	3,064

Source: 2022 1-year American Community Survey, Summary File

Table 19: Migration by Tenure

Category	Population	All Migration	Net Inflows			
			Same State		Across States	From Abroad
			W/in County	Between Counties		
Householder lived in owner-occupied housing units	171,948	-1,419	-2,145	960	-1,865	1,631
Householder lived in renter-occupied housing units	134,639	552	3,580	-1,044	-3,582	1,598
Total:	306,587	-867	1,435	-84	-5,447	3,229

Source: 2022 1-year American Community Survey, Summary File

Figure 91: Domestic Movements of Residents by Tenure

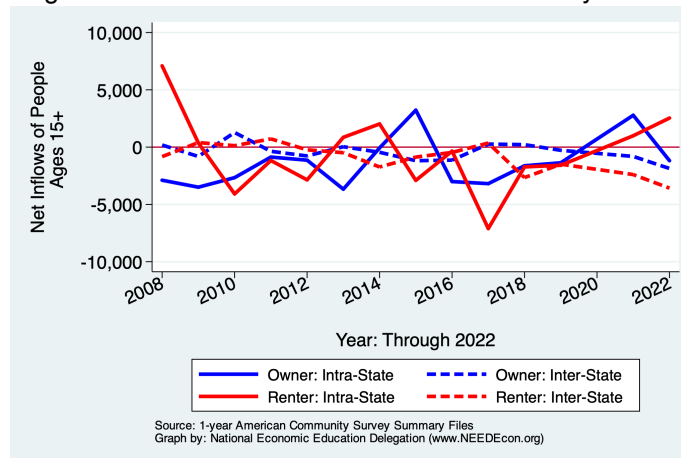


Table 20: Migration by Age

Category	Population	Net Inflows				
		All Migration	Same State		Across States	From Abroad
			W/in County	Between Counties		
1 to 4 years	14,916	-147	-82	202	-267	0
5 to 17 years	54,035	972	-149	1,165	-393	349
18 and 19 years	12,445	2,094	164	1,967	-160	123
20 to 24 years	29,351	358	1,293	-171	-1,165	401
25 to 29 years	26,583	-3,366	189	-3,064	-806	315
30 to 34 years	25,710	963	612	268	-707	790
35 to 39 years	26,104	887	367	353	-185	352
40 to 44 years	20,698	255	128	831	-704	0
45 to 49 years	17,939	-906	-189	12	-777	48
50 to 54 years	17,864	-683	-123	-398	-256	94
55 to 59 years	16,719	-447	-343	-133	29	0
60 to 64 years	15,885	381	-44	225	-39	239
65 to 69 years	15,251	-551	-344	-125	-82	0
70 to 74 years	8,892	-626	-116	-355	-207	52
75 years and over	15,695	880	-31	372	9	530
Total Population:	318,087	64	1,332	1,149	-5,710	3,293

Source: 2022 1-year American Community Survey, Summary File

Table 21: Migration by Educational Attainment

Category	Population	Net Inflows				
		All Migration	Same State		Across States	From Abroad
			W/in County	Between Counties		
Less than high school graduate	32,399	257	245	175	-545	382
High school graduate (includes equiv)	57,696	-1,722	-760	-35	-1,362	435
Some college or assoc. degree	61,979	924	1,012	-65	-324	301
Bachelor's degree	32,898	-1,127	-109	-1,217	-337	536
Graduate or professional degree	22,368	-1,545	-282	-872	-1,157	766
Total:	207,340	-3,213	106	-2,014	-3,725	2,420

Source: 2022 1-year American Community Survey, Summary File

Table 22: Median Income of Migration Flows

Flow	In-Migration	Out-Migration
Same House 1 Year Ago	36,864	36,864
Moved Within Same County	31,990	33,322
Moved to Different County, Same State	27,746	30,647
Moved Between States	75,647	38,425
Moved from Abroad	25,650	
Total Population:	36,294	36,362

Source: 2022 1-year American Community Survey, Summary File

Table 23: Median Age of Migration Flows

Flow	In-Migration	Out-Migration
Same House 1 Year Ago	35.3	35.3
Moved Within Same County	28.4	30.6
Moved to Different County, Same State	24.4	28.4
Moved Between States	31.2	31.2
Moved from Abroad	33.2	
Total Population:	34.2	34.3

Source: 2022 1-year American Community Survey, Summary File

References and Sources

The majority of the data presented in this report are from the American Community Survey (ACS). For larger geographies, the 1-year Summary Files provide the data. For smaller communities, roughly those with less than 65,000 in population in 2021, the 5-year Summary Files provide the data.

The ACS data are supplemented by building permit data from the U.S. Census Bureau, population and housing data from the California Department of Finance, and home price and rental rates from Zillow.

U.S. Census Bureau. American Community Survey 1-year and 5-year Summary Files. <https://www.census.gov/programs-surveys/acs/data/data-via-ftp.html>. The 1-year data are released in September each year and the 5-year data are released in January.

Zillow Research Data <https://www.zillow.com/research/data/>

U.S. Census Bureau. Building Permits Data, updated annually in February. <https://www.census.gov/construction/bps/current.html>

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