Orange, California

Indicators Report

by The National Economic Education Delegation (NEED)

April 20, 2024

Exploring the economics, demographics, and well-being of Orange 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 Orange (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 Orange. These indicators are compared to Orange County (the County) as a whole, a broader region where one is well defined, California, and the United Sates.

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 snopshot of Orange 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 or employment and unemployment in Orange 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 Orange, 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 proprotion 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 Orange, but do not necessarily live in Orange.
- **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 house-hold compositon.

Why is it important?

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

A Demographic Snapshot

Statistic	2022	2019
POPULATION		
Population Estimate (#, 5yr)	138,728.0	139,887.0
Veterans (#, 5yr)	4,120.0	4,340.0
Foreign born persons (%, 5yr)	21.6	22.8
Population age 25+ (#, 5yr)	95,294.0	93,161.0
AGE AND SEX		
Persons under 5 years (%, 5yr)	5.6	6.
Persons under 18 years (%, 5yr)	20.5	21.3
Persons 65 years and over (%, 5yr)	14.5	12.5
⁻ emale persons (%, 5yr)	48.9	50.
NCOME AND POVERTY		
Median household income (\$, 5yr)	109,335.0	91,793.
Per capita income in past 12 months (\$, 5yr)	48,092.0	37,850.
Persons in poverty (%, 5yr)	9.2	12.
Children age less than 18 in poverty (#, 5yr)	2,866.0	4,460.
Children age less than 18 in poverty (%, 5yr)	10.4	15.4
White alone (%, 5yr)	58.2	72.
African American alone (%, 5yr)	1.5	1.
American Indian or Alaska Native alone (%, 5yr)	0.9	0.
Asian alone (%, 5yr)	13.3	11.
Native Hawaiian and Other Pacific Islander alone (%, 5yr)	0.4	0.4
Two or More Races (%, 5yr)	13.6	3.
Hispanic or Latino (%, 5yr)	39.1	38.
White alone, not Hispanic or Latino (%, 5yr) HOUSING	41.0	44.
Housing units (#, 5yr)	46,067.0	44,664.
u	40,007.0	44,004.
Owner-occupied housing units (%, 5yr) Median value of owner-occupied housing units (\$, 5yr)	848,200.0	656,100.
Median selected monthly owner costs-with a mortgage (\$, 5yr)	3,180.0	2,724.
Median selected monthly owner costs-without a mortgage (\$, 5yr)	712.0	573.
Median gross rent (\$, 5yr)	2,148.0	1,806.
	2,140.0	1,000.
Households (#, 5yr)	44,336.0	43,075.
Persons per household (#, 5yr)	3.0	-0,073.
Living in same house 1 year ago, $\%$ of persons age 1+ (5yr)	87.7	86.
EDUCATION	07.7	00.
High school graduate or higher, % of persons age 25+ (5yr)	88.2	85.
Bachelor's degree or higher, % of persons age 25+ (5yr)	40.3	37.
HEALTH		
With a disability, under age 65 years (#, 5yr)	6,478.0	5,955.
Persons without health insurance, under age 65 years (%, 5yr)	6.0	7.4
LABOR FORCE		
n civilian labor force, persons age 16+ (%, 5yr)	66.1	64.
n civilian labor force, women age 16+ (%, 5yr)	61.7	60.4
Employed, persons age 16+ (%, 5yr)	60.9	59.
Self employed (%, 5yr)	11.0	10.
TRANSPORTATION		
Mean travel time to work, workers age 16+ (Mins., 5yr)	23.0	25.
Drive alone in private vehicle (%, 5yr)	71.4	80.
Using public transportation (%, 5yr)	2.7	2.
Worked from home (%, 5yr)	14.2	5.

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 (Thousands, January		gion							
	2023		% Cha	nge					
Region	Population	1 Year	3 Year	5 Year					
City									
Orange	139,063	0.66	-0.32	-1.45					
County and Broader Regions									
Orange County	3, 137, 164	-0.47	-1.36	-2.37					
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

(Thousands, January to January)

Orange County 3,151.9 3,137.2 -0.47 -0.41 -0.3 Anaheim 335.9 328.6 -2.19 -0.41 -0.41 -0.41 Irvine 305.7 303.1 -0.86 -0.41 -0.41 -0.41 Santa Ana 304.3 299.6 -1.52 -0.41 -0.41 -0.41 Huntington Beach 196.5 195.7 -0.38 -0.41 -0.41 -0.41 Fullerton 143.0 142.9 -0.10 -0.41 -0.42 -0.42 Mission Viejo 92.1 91.8 -0.30 -0.42 Mission Viejo 92.1 91.8 -0.30 Westminster 90.7 90.5 -0.18 -0.42 -0.42 Mission Viejo 92.1 91.8 -0.30 Westminster 90.7 90.5 -0.18 -0.42 -0.42 Mission Viejo -0.42 Mission Viejo -0.42 Mission Viejo -0.43 -0.29 -0.44 -0.43 -0.44 -0.43 -0.44 -0.47					% Change	
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San Clemente 63.4 63.2 -0.31 La Habra 62.0 61.8 -0.33 Fountain Valley 57.0 57.0 0.02 Placentia 51.3 52.5 2.30 Aliso Viejo 51.0 50.8 -0.49 Cypress 49.9 49.8 -0.12 Brea 46.9 48.2 2.63 Rancho Santa Margarita 47.3 47.1 -0.49 Stanton 39.0 39.1 0.25 San Juan Capistrano 34.9 35.1 0.63 Dana Point 33.0 33.2 0.44 Laguna Hills 30.7 30.5 -0.46	Yorba Linda	67.3	67.1	-0.32		
La Habra 62.0 61.8 -0.33 Fountain Valley 57.0 57.0 0.02 Placentia 51.3 52.5 2.30 Aliso Viejo 51.0 50.8 -0.49 Cypress 49.9 49.8 -0.12 Brea 46.9 48.2 2.63 Rancho Santa Margarita 47.3 47.1 -0.49 Stanton 39.0 39.1 0.25 San Juan Capistrano 34.9 35.1 0.63 Dana Point 33.0 33.2 0.44 Laguna Hills 30.7 30.5 -0.46	Laguna Niguel	65.0	64.7	-0.47		
Fountain Valley 57.0 57.0 0.02 Placentia 51.3 52.5 2.30 Aliso Viejo 51.0 50.8 -0.49 Cypress 49.9 49.8 -0.12 Brea 46.9 48.2 2.63 Rancho Santa Margarita 47.3 47.1 -0.49 Stanton 39.0 39.1 0.25 San Juan Capistrano 34.9 35.1 0.63 Dana Point 33.0 33.2 0.44 Laguna Hills 30.7 30.5 -0.46	San Clemente	63.4	63.2	-0.31		
Placentia 51.3 52.5 2.30 Aliso Viejo 51.0 50.8 -0.49 Cypress 49.9 49.8 -0.12 Brea 46.9 48.2 2.63 Rancho Santa Margarita 47.3 47.1 -0.49 Stanton 39.0 39.1 0.25 San Juan Capistrano 34.9 35.1 0.63 Dana Point 33.0 33.2 0.44 Laguna Hills 30.7 30.5 -0.46	La Habra	62.0	61.8	-0.33		
Aliso Viejo 51.0 50.8 -0.49 Cypress 49.9 49.8 -0.12 Brea 46.9 48.2 2.63 Rancho Santa Margarita 47.3 47.1 -0.49 Stanton 39.0 39.1 0.25 San Juan Capistrano 34.9 35.1 0.63 Dana Point 33.0 33.2 0.44 Laguna Hills 30.7 30.5 -0.46	Fountain Valley	57.0	57.0	0.02		
Cypress 49.9 49.8 -0.12 Brea 46.9 48.2 2.63 Rancho Santa Margarita 47.3 47.1 -0.49 Stanton 39.0 39.1 0.25 San Juan Capistrano 34.9 35.1 0.63 Dana Point 33.0 33.2 0.44 Laguna Hills 30.7 30.5 -0.46	Placentia	51.3	52.5	2.30		
Brea 46.9 48.2 2.63 Rancho Santa Margarita 47.3 47.1 -0.49 Stanton 39.0 39.1 0.25 San Juan Capistrano 34.9 35.1 0.63 Dana Point 33.0 33.2 0.44 Laguna Hills 30.7 30.5 -0.46	Aliso Viejo	51.0	50.8	-0.49		
Rancho Santa Margarita 47.3 47.1 -0.49 Stanton 39.0 39.1 0.25 San Juan Capistrano 34.9 35.1 0.63 Dana Point 33.0 33.2 0.44 Laguna Hills 30.7 30.5 -0.46	Cypress	49.9	49.8	-0.12		
Stanton 39.0 39.1 0.25 San Juan Capistrano 34.9 35.1 0.63 Dana Point 33.0 33.2 0.44 Laguna Hills 30.7 30.5 -0.46	Brea	46.9	48.2	2.63		
San Juan Capistrano 34.9 35.1 0.63 Dana Point 33.0 33.2 0.44 Laguna Hills 30.7 30.5 -0.46	Rancho Santa Margarita	47.3	47.1	-0.49		
Dana Point 33.0 33.2 0.44 Laguna Hills 30.7 30.5 -0.46	Stanton	39.0	39.1	0.25		
Laguna Hills 30.7 30.5 -0.46	San Juan Capistrano	34.9	35.1	0.63		
5	Dana Point	33.0	33.2	0.44		
	5					
	Seal Beach	24.9	24.6	-0.90		
Laguna Beach 22.5 22.4 -0.27		22.5	22.4	-0.27		
Laguna Woods 17.5 17.4 -0.49		17.5	17.4	-0.49		
La Palma 15.4 15.3 -0.45	La Palma	15.4	15.3	-0.45		
Los Alamitos 11.9 12.1 1.98		11.9		1.98		
Villa Park 5.8 5.8 -0.02	Villa Park	5.8	5.8	-0.02		

Source: CA DOF; Calculations by National Economic Education Delegation

Table 2. County Population Change by City

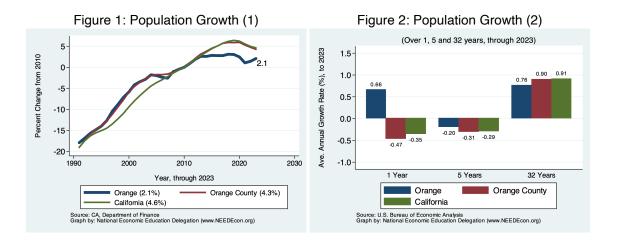
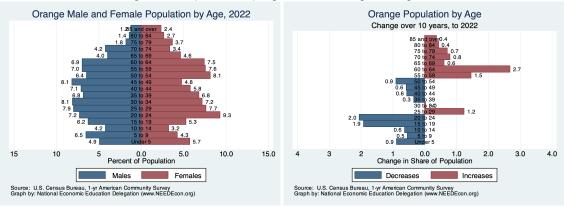
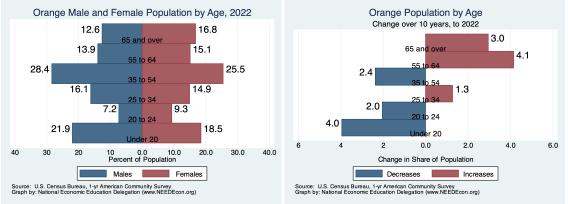


Figure 3: Population by Age - Detailed Age Categories







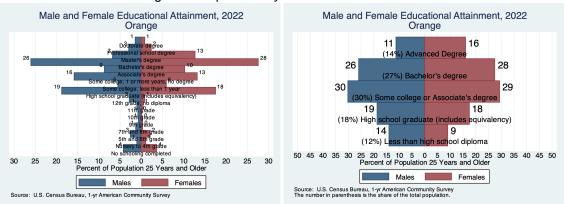
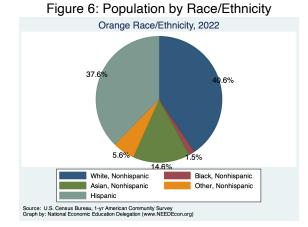
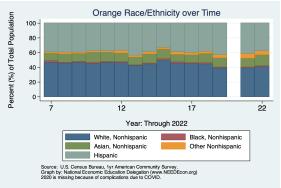
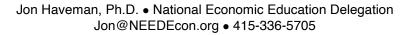


Figure 5: Population by Educational Attainment









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 employment 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.

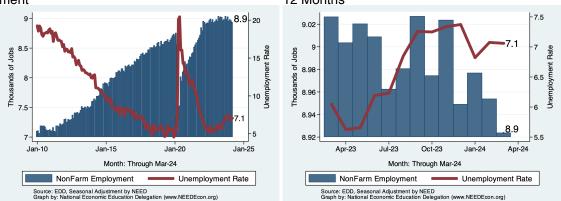
Why is it important?

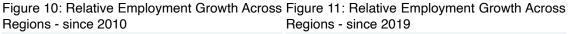
Employment growth is a fundamental indicator of the health of an economy.

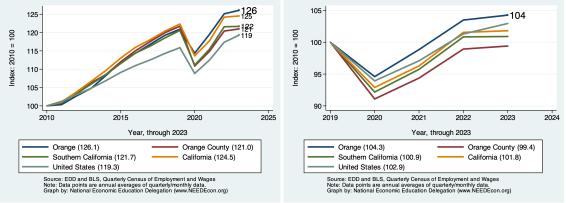
Table 3. Orange Summary for March, 2024										
	Change From:									
Category	Current Value	Last Month	2 Months Ago	Last Year						
Employment	8,924	-30	-53	-103						
Labor Force	9,644	9	15	96						
Number Unemployed	678	-4	21	97						
Unemployment Rate	7.0	-0.0	0.2	0.9						

Source: EDD, National Economic Education Delegation

Figure 8: Historical Employment and Unemploy- Figure 9: Employment and Unemployment - Last ment 12 Months







County 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 Orange County. The following table provides the latest data for the County.

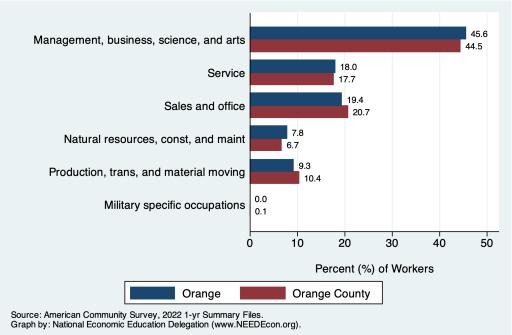
			% Growth - Annualized Rate						
Industry	Employment	Share	Growth	Month	Qtr	6mo	1yr	3yr	5yr
Total Nonfarm	1,704,677	100.0	6,550.8	4.7	3.1	2.4	1.9	3.3	0.4
Total Private	1,541,986	90.5	6,278.0	5.0	3.2	2.5	1.8	3.4	0.5
Goods Producing	261,488	15.3	411.3	1.9	-1.9	-0.0	0.3	1.5	-0.4
Mining, Logging and Construction	106, 369	6.2	1,018.8	12.2	-3.2	2.3	2.6	1.4	0.0
Mining and Logging	300	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-8.0
Construction	105,995	6.2	919.4	11.0	-3.6	2.1	2.6	1.4	0.0
Manufacturing	155, 148	9.1	-444.4	-3.4	-1.1	-1.9	-1.2	1.5	-0.7
Durable Goods	116,767	6.8	-95.6	-1.0	1.2	-1.6	-0.9	1.8	-0.4
Non-Durable Goods	38,408	2.3	-327.6	-9.7	-5.8	-2.8	-1.8	0.6	-1.6
Service Providing	1,443,479	84.7	6,591.2	5.6	4.4	2.5	2.1	3.7	0.6
Trade, Trans & Utilities	262,337	15.4	562.6	2.6	0.5	0.2	0.0	1.5	0.1
Wholesale Trade	80,836	4.7	167.7	2.5	-0.7	-1.0	-0.1	1.5	-0.1
Retail Trade	146, 647	8.6	369.0	3.1	0.1	1.1	0.5	0.8	-0.6
Trans & Warehousing	31,588	1.9	171.6	6.8	5.2	-1.8	-1.9	4.8	3.9
Information	21,685	1.3	55.2	3.1	-2.3	-4.7	-5.7	-2.6	-3.5
Financial Activities	103, 389	6.1	-89.2	-1.0	0.9	-0.7	-0.8	-4.0	-2.2
Finance & Insurance	61,918	3.6	42.0	0.8	-0.0	-2.3	-2.9	-7.2	-3.9
Real Estate & Rental & Leasing	41,527	2.4	-109.4	-3.1	2.1	2.7	2.5	2.6	0.9
Professional & Business Srvcs	324,490	19.0	1,362.8	5.2	5.4	2.5	1.0	0.1	-0.1
Prof, Sci, & Tech	141,484	8.3	78.9	0.7	2.5	2.6	1.5	2.4	1.5
Admin & Support Srvcs	139,656	8.2	1,147.2	10.4	10.0	2.6	0.1	-2.3	-1.5
Employment Srvcs	63,712	3.7	840.6	17.3	14.1	2.2	-1.8	-7.3	-3.4
Educational & Health Srvcs	274,719	16.1	1,424.2	6.4	5.3	5.3	6.0	5.9	3.8
Education Srvcs	39,649	2.3	-189.7	-5.6	-1.1	1.9	3.9	11.9	5.4
Health Care & Social Assistance	234, 185	13.7	1,519.1	8.1	5.0	4.8	6.4	4.9	3.5
Leisure & Hospitality	234,608	13.8	2,031.9	11.0	4.3	3.1	3.1	18.2	0.7
Arts, Entertainment & Recreation	59,924	3.5	1,760.9	43.0	21.0	14.5	10.3	65.4	2.2
Accommodation & Food Srvcs	174,745	10.3	281.9	2.0	-0.7	0.5	0.9	11.1	0.2
Other Srvcs	56,860	3.3	193.3	4.2	4.1	3.8	4.0	8.7	2.1
Government	163,068	9.6	280.7	2.1	2.3	1.6	2.7	2.3	0.0
Federal	10,850	0.6	53.4	6.1	7.3	2.8	1.9	-0.9	-0.4
State	33,620	2.0	33.4	1.2	2.3	0.6	2.0	0.1	0.7
Local	118,731	7.0	304.5	3.1	2.6	1.4	3.0	3.3	-0.1
County	18,417	1.1	66.4	4.4	-6.8	-3.0	-1.7	0.7	-0.8
City	16,631	1.0	-49.0	-3.5	6.9	4.5	5.7	6.1	0.6
Local Government Education	75,924	4.5	261.8	4.2	3.5	1.5	3.4	3.5	-0.2

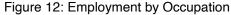
Table 4. Employment Growth by Industry in Orange County for March, 2024

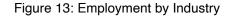
Source: EDD, National Economic Education Delegation (NEED)

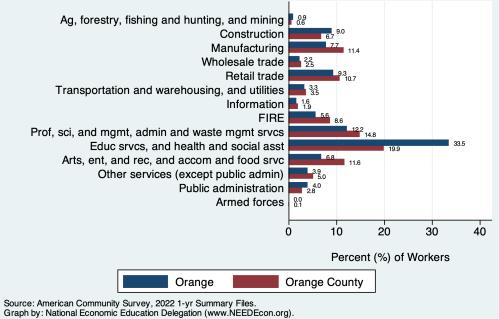
Some Employee Detail

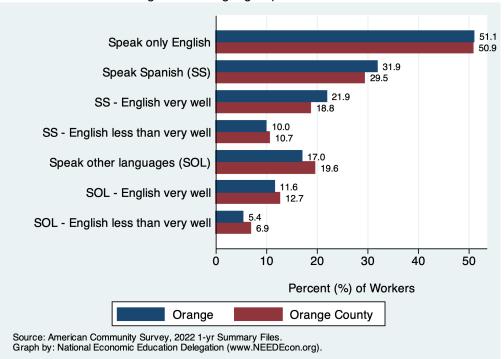
Employed in Orange











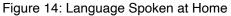


Figure 15: Citizenship

^{69.8} Native 65.8 30.2 Foreign Born 34.2 18.6 Naturalized U.S. 19.5 11.5 Not a U.S. Citizen 14.7 40 ò 20 60 80 Percent (%) of Workers Orange **Orange County** Source: American Community Survey, 2022 1-yr Summary Files. Graph by: National Economic Education Delegation (www.NEEDEcon.org).

Employed Residents of Orange

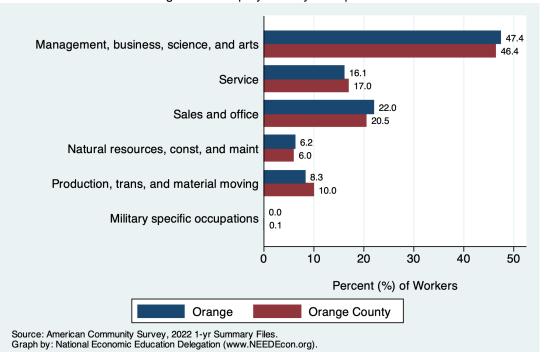
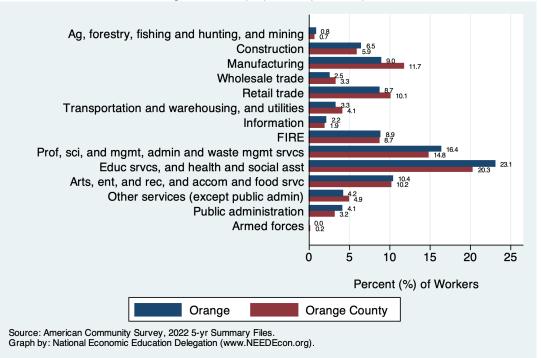




Figure 17: Employment by Industry



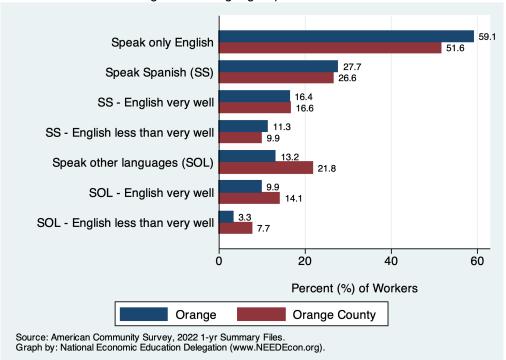


Figure 18: Language Spoken at Home

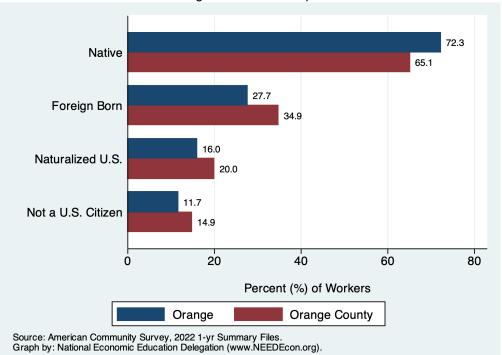


Figure 19: Citizenship

Employed Residents vs Workers in Orange

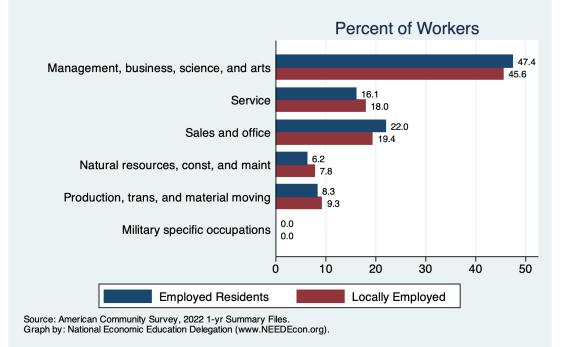
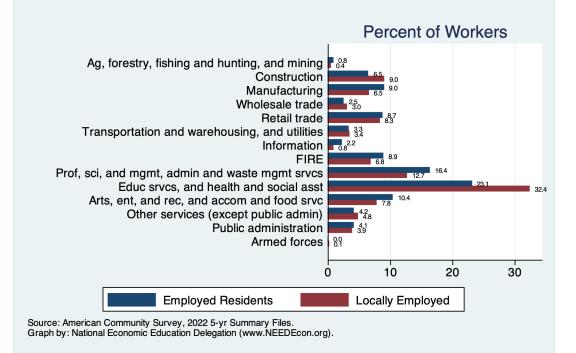
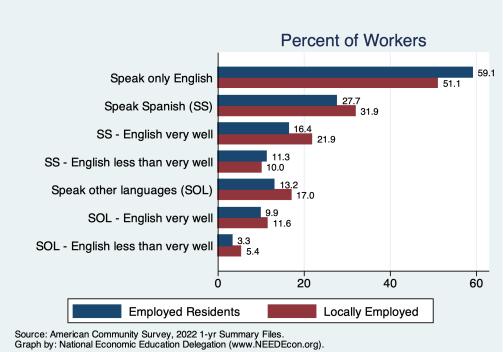


Figure 20: Employment by Occupation

Figure 21: Employment by Industry





Percent of Workers 72.3 Native 69.8 27.7 Foreign Born 30.2 16.0 Naturalized U.S. 18.6 11.7 Not a U.S. Citizen 11.5 40 20 60 80 0 **Employed Residents** Locally Employed

Figure 23: Citizenship

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

> Jon Haveman, Ph.D. • National Economic Education Delegation Jon@NEEDEcon.org • 415-336-5705

Figure 22: Language Spoken at Home

Income and Earnings

Per Capita Income Growth

Definition:

Per capita income is the average income per person in Orange. 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.

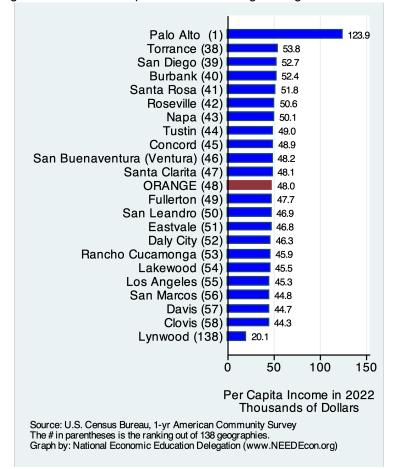


Figure 24: Real Per Capita Income Ranking Among California Cities

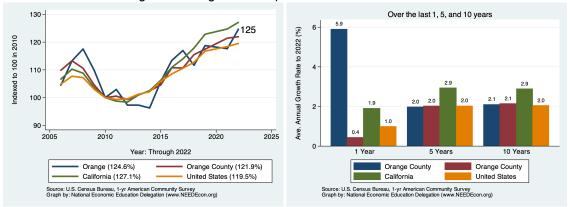
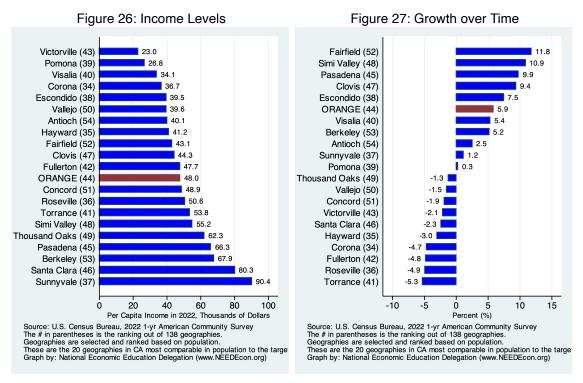
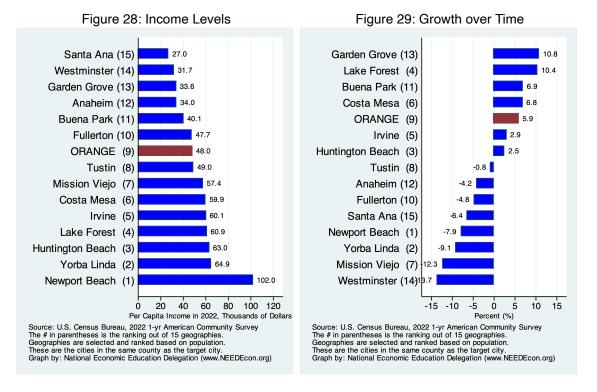


Figure 25: Regional Comparison of Growth over Time

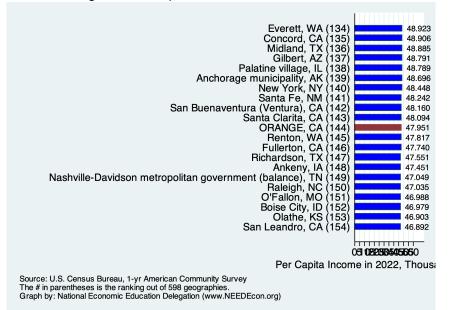
Real Per Capita Income Ranking Among California Cities - w/Comparable Populations





Real Per Capita Income Ranking Among Cities in Orange County

Figure 30: Comparison with All Cities Nationwide



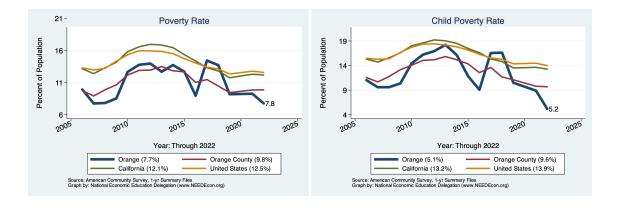
Poverty and Inequality

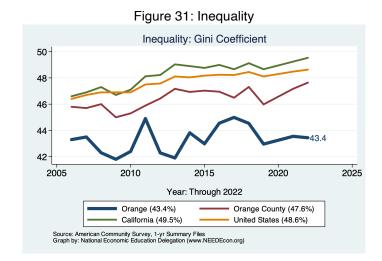
Definition:

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.





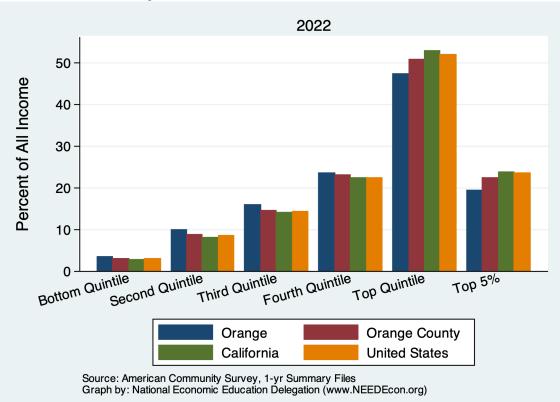
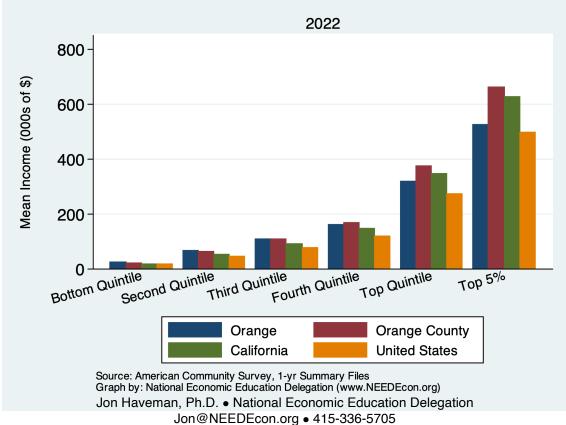


Figure 32: Shares Across the Income Distribution





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 Orange and Broader Regions

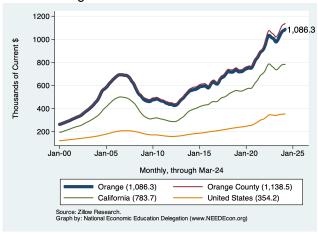
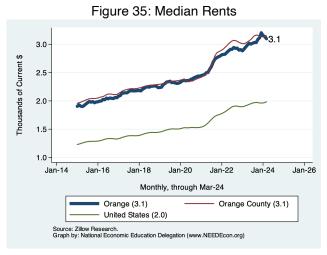
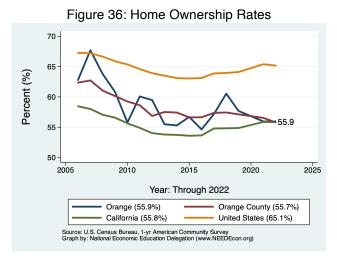
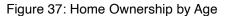


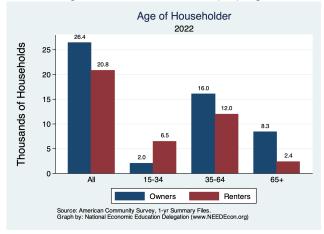
Figure 34: Median Home Prices

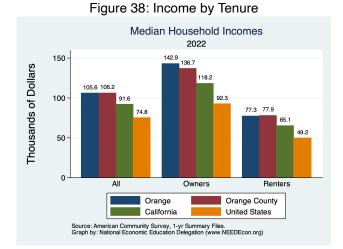


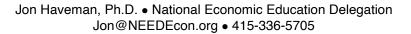


Housing Ownership in Orange and Broader Regions









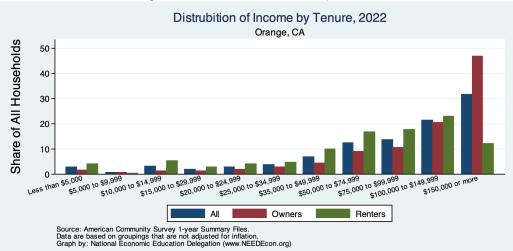
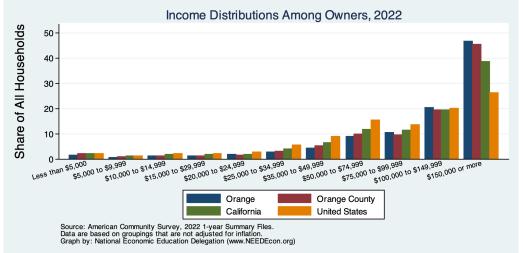
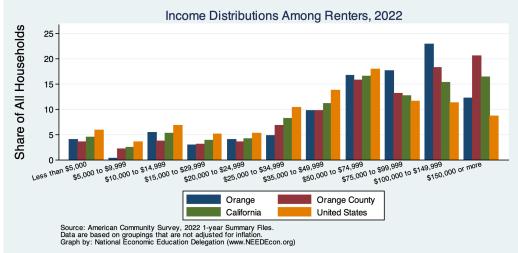


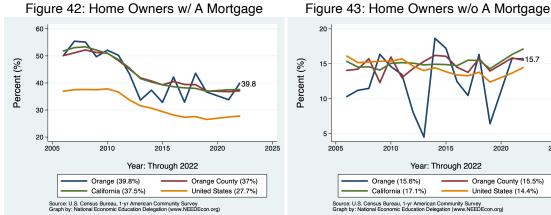
Figure 39: Income Distribution by Tenure











Housing Burden in Orange and Broader Regions

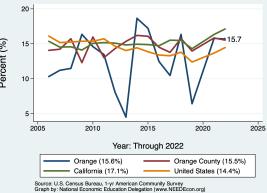
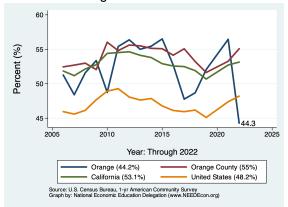
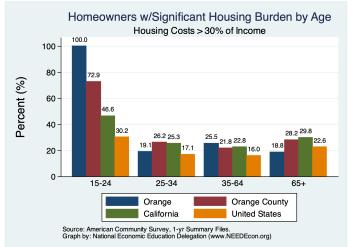


Figure 44: Renters







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.

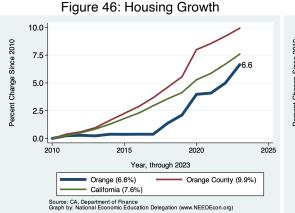
Table 5. Housing Market Indicators

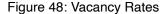
Why is it important?

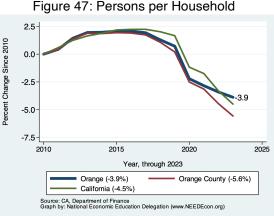
In areas where the rate of population growth exceeds the rate of housing growth, this is likely to reflect a tightening housing market. A tightening housing market will also likely be reflected in lower vacancy rates and higher occupancy rates. It may also be reflected in higher numbers of people per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

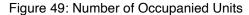
			70 UTIAI	nge from
2023	2019	2010	2019	2010
139,063.0	140,410.0	136,386.0	-1.0	2.0
48,100.0	46,054.0	45,102.0	4.4	6.6
46,424.0	44,340.0	43,358.0	4.7	7.1
2.9	3.0	3.0	-4.6	-3.9
3.5	3.7	3.9	-6.4	-9.9
	139,063.0 48,100.0 46,424.0 2.9	139,063.0 140,410.0 48,100.0 46,054.0 46,424.0 44,340.0 2.9 3.0	139,063.0 140,410.0 136,386.0 48,100.0 46,054.0 45,102.0 46,424.0 44,340.0 43,358.0 2.9 3.0 3.0	2023 2019 2010 2019 139,063.0 140,410.0 136,386.0 -1.0 48,100.0 46,054.0 45,102.0 4.4 46,424.0 44,340.0 43,358.0 4.7 2.9 3.0 3.0 -4.6

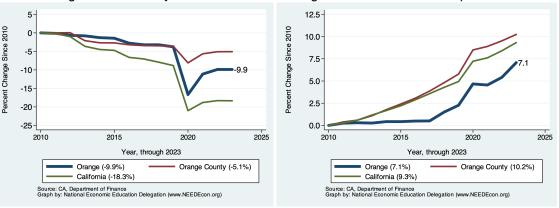
Source: CA DOF; Calculations by the National Economic Education Delegation



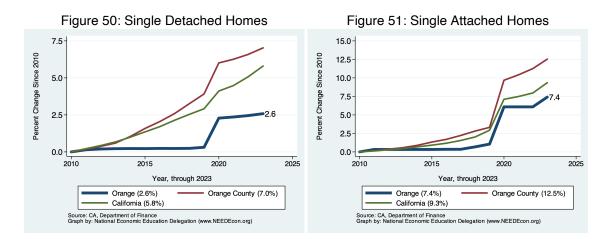


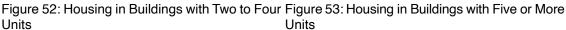


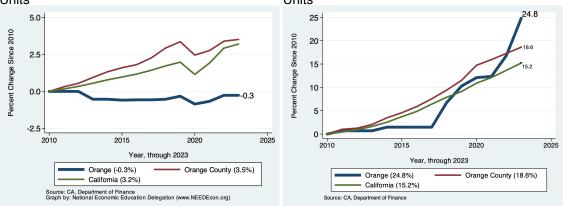












Vintage of Residential Housing

Why is it important?

This section provides evidence on the year in which residential housing in Orange was built. We break it down into owned versus rented residences and provide a comparison across Orange 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.

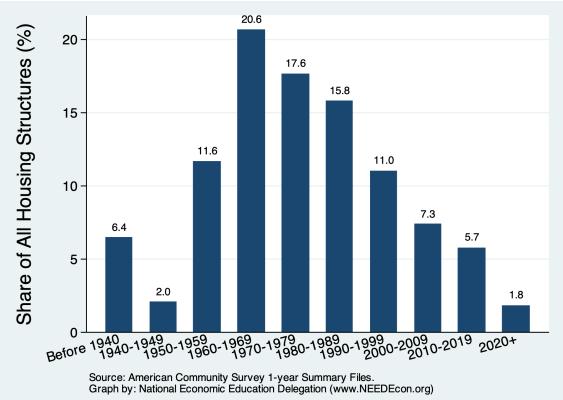
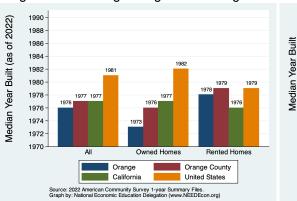
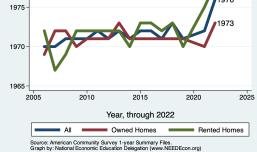


Figure 54: Distribution of Housing Construction







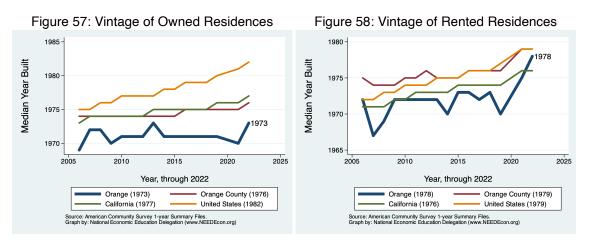
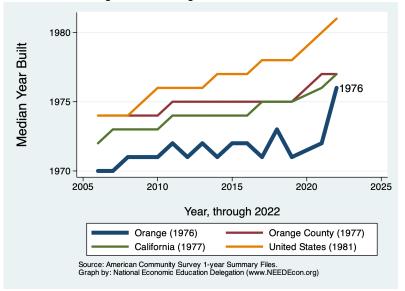


Figure 59: Vintage of All Residences



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Figure 55: Housing Vintage across Regions

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.

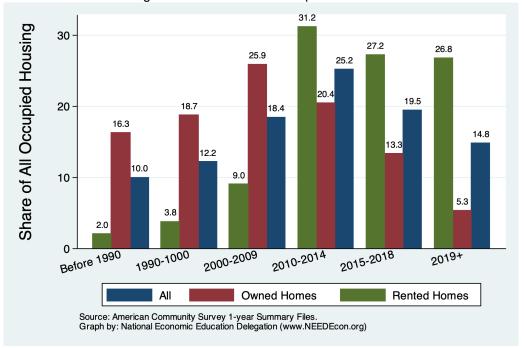


Figure 60: Year Current Occupant Moved In

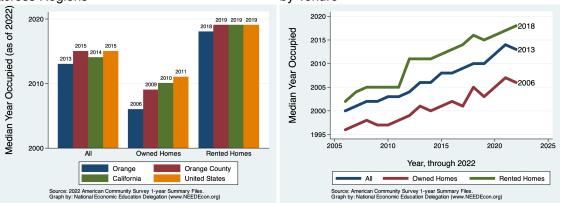


Figure 61: Year Occupied by Current Residents Figure 62: Year Occupied by Current Residents across Regions by Tenure

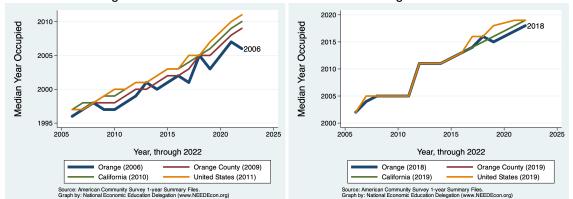
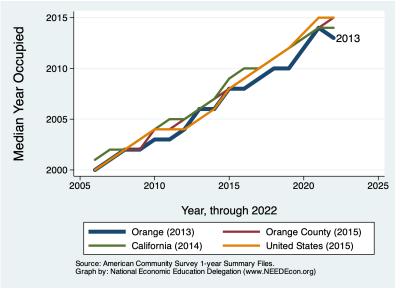


Figure 63: Year Occupied by Current Residents Figure 64: Year Occupied by Current Residents for Owned Housing for Rented Housing





Definition:

This indicator provides evidence on the number of residential buildings that are permitted for construction each year. Permit data for Orange is compared with data from Orange 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.

Orange - Ranking Among Comparables

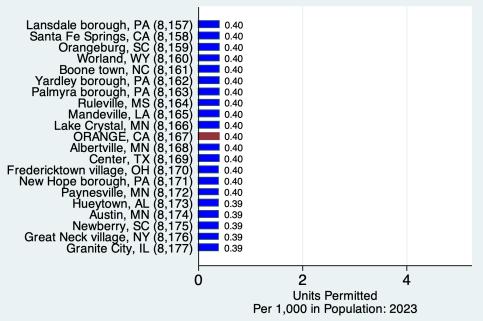


Figure 66: Number of Units Permitted - Nationwide Comparables (Rank)

Source: U.S. Census Bureau

The # in parentheses is the ranking out of 14338 geographies

Graph by: National Economic Education Delegation (www.NEEDEcon.org)

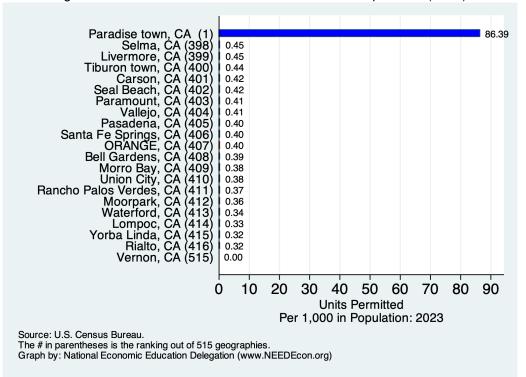
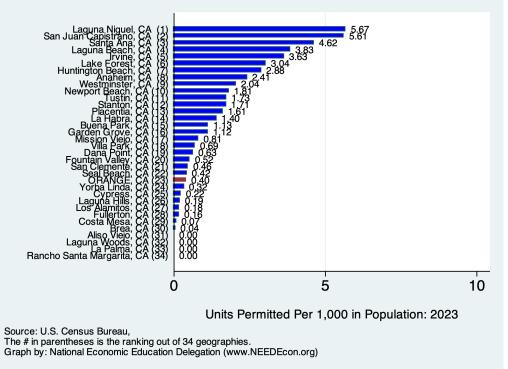
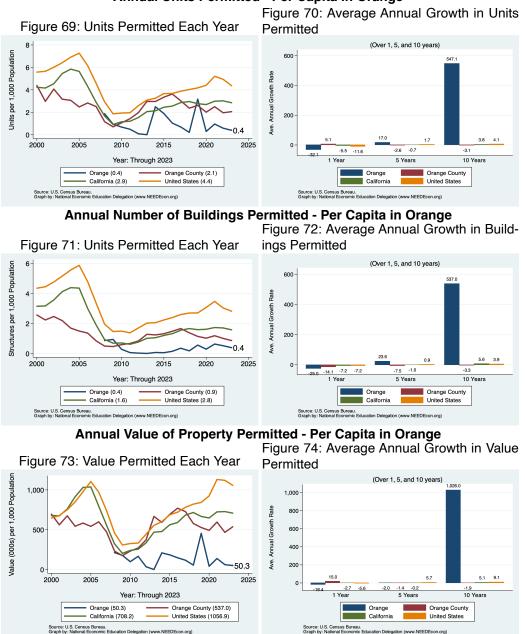


Figure 67: Number of Units Permitted - California Comparables (Rank)









Annual Units Permitted - Per Capita in Orange

on (www.NEEDEd

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 housing 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

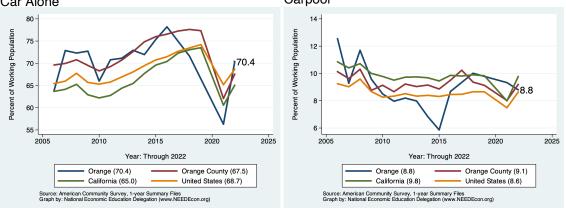
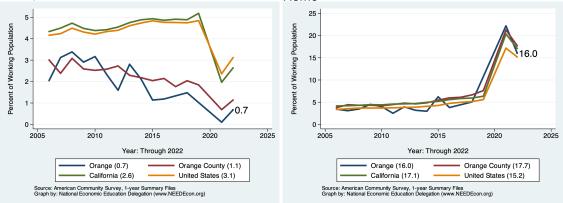


Figure 75: Percent of Workers Commuting by Figure 76: Percent of Workers Commuting by Car Alone Carpool

Figure 77: Percent of Workers using Public Figure 78: Percent of Workers Who Work From Transportation Home



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

	Male		Female		All Workers		All of CA	
Mode of Transit	#	(%)	#	(%)	#	(%)	(%)	
Car, Truck, or Van:	33,024	81.3	25,439	73.7	58,463	79.2	75.3	
Drove Alone	29,340	72.2	22,624	65.5	51,964	70.4	65.5	
Carpooled:	3,684	9.1	2,815	8.2	6,499	8.8	9.8	
In 2-person carpool	2,492	6.1	2,020	5.9	4,512	6.1	7.0	
In 3-person carpool	469	1.2	303	0.9	772	1.0	1.7	
In 4-or-more-person carpool	723	1.8	492	1.4	1,215	1.6	1.2	
Public Transportation (excl Taxi):	255	0.6	248	0.7	503	0.7	2.7	
Bus or Trolley Bus	202	0.5	201	0.6	403	0.5	1.8	
Streetcar or Trolley Car	0	0.0	47	0.1	47	0.1	0.5	
Subway or Elevated	53	0.1	0	0.0	53	0.1	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	349	0.9	153	0.4	502	0.7	0.7	
Walked	844	2.1	963	2.8	1,807	2.4	2.4	
Taxicab, Motorcycle, or other	297	0.7	458	1.3	755	1.0	1.7	
Worked at Home	5,666	13.9	6,166	17.9	11,832	16.0	17.2	
Total:	40,435	99.5	33,427	96.8	73,862	100.0		

Table 6 SEX OF WORKERS BY	MODE OF TRANSPORTATION TO WORK
TADIE 0. SEX OF WORKERS DT	MODE OF THANSFORTATION TO WORK

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

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

	Male Female			All Wor	All of CA		
Mode of Transit	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van:	41,392	70.4	41,116	79.5	82,508	75.1	75.3
Drove Alone	37,164	63.2	36,627	70.8	73,791	67.1	65.5
Carpooled:	4,228	7.2	4,489	8.7	8,717	7.9	9.8
In 2-person carpool	2,709	4.6	2,820	5.4	5,529	5.0	7.0
In 3-person carpool	696	1.2	1,327	2.6	2,023	1.8	1.7
In 4-or-more-person carpool	823	1.4	342	0.7	1,165	1.1	1.2
Public Transportation (excl Taxi):	1,477	2.5	1,051	2.0	2,528	2.3	2.6
Bus or Trolley Bus	1,317	2.2	686	1.3	2,003	1.8	1.8
Streetcar or Trolley Car	0	0.0	0	0.0	0	0.0	0.5
Subway or Elevated	160	0.3	312	0.6	472	0.4	0.2
Railroad	0	0.0	53	0.1	53	0.0	0.1
Ferryboat	0	0.0	0	0.0	0	0.0	0.1
Bicycle	241	0.4	136	0.3	377	0.3	0.7
Walked	1,131	1.9	1,419	2.7	2,550	2.3	2.4
Taxicab, Motorcycle, or other	866	1.5	483	0.9	1,349	1.2	1.7
Worked at Home	5,666	9.6	6,166	11.9	11,832	10.8	17.2
Total:	50,773	86.3	50,371	97.3	101, 144	92.0	

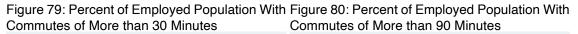
Source: 2022 1-year American Community Survey, Summary File

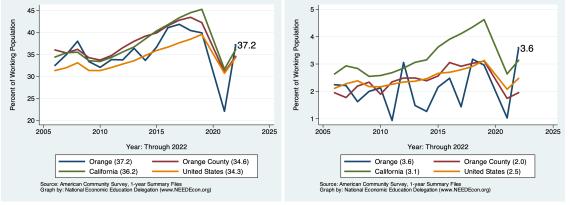
The results in this table are for those who work in the region, regardless of the location of their residence.

Commute Times for Employed Residents

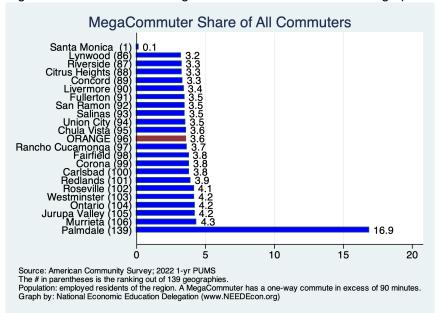
Table 8. SEX OF WORKERS BY TRAVEL TIME TO WORK										
	Ма	Male		ale	All Wo	All Workers				
Mode of Transit	#	(%)	#	(%)	#	(%)	(%)			
Less than 5 minutes	302	0.8	366	1.1	668	1.0	2.1			
5 to 9 minutes	2,031	5.1	1,221	3.7	3,252	4.7	7.8			
10 to 14 minutes	5,573	14.1	3,022	9.2	8,595	12.5	12.4			
15 to 19 minutes	5,359	13.6	4,098	12.4	9,457	13.8	15.4			
20 to 24 minutes	4,196	10.6	5,047	15.3	9,243	13.5	14.8			
25 to 29 minutes	2,600	6.6	2,704	8.2	5,304	7.7	6.4			
30 to 34 minutes	5,572	14.1	4,700	14.3	10,272	15.0	15.2			
35 to 39 minutes	1,610	4.1	428	1.3	2,038	3.0	2.9			
40 to 44 minutes	1,363	3.5	1,737	5.3	3,100	4.5	4.1			
45 to 59 minutes	2,873	7.3	1,688	5.1	4,561	6.7	8.2			
60 to 89 minutes	1,648	4.2	1,433	4.3	3,081	4.5	7.2			
90 or more minutes	1,642	4.2	817	2.5	2,459	3.6	3.6			
Total:	34,769	88.1	27,261	82.7	62,030	90.4				

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









Commute Times for Those Employed in the City

Table 9. SEX OF WORKERS BY TRAVEL TIME TO WORK FOR WORKPLACE GEOGRAPHY											
	Mal	е	Fem	ale	All Wo	All of CA					
Mode of Transit	#	(%)	#	(%)	#	(%)	(%)				
Less than 5 minutes	753	1.3	631	1.3	1,384	1.3	2.1				
5 to 9 minutes	2,219	3.9	2,506	5.0	4,725	4.4	7.8				
10 to 14 minutes	4,164	7.3	4,076	8.1	8,240	7.7	12.4				
15 to 19 minutes	6,008	10.5	7,109	14.2	13, 117	12.2	15.3				
20 to 24 minutes	5,647	9.9	7,852	15.7	13,499	12.6	14.8				
25 to 29 minutes	2,377	4.2	2,809	5.6	5,186	4.8	6.4				
30 to 34 minutes	10,261	18.0	8,345	16.6	18,606	17.4	15.2				
35 to 39 minutes	1,119	2.0	1,510	3.0	2,629	2.5	2.9				
40 to 44 minutes	2,229	3.9	1,338	2.7	3,567	3.3	4.1				
45 to 59 minutes	4,055	7.1	3,074	6.1	7,129	6.7	8.2				
60 to 89 minutes	4,824	8.4	3,810	7.6	8,634	8.1	7.2				
90 or more minutes	1,451	2.5	1,145	2.3	2,596	2.4	3.6				
Total:	45,107	79.0	44,205	88.1	89,312	83.4					

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.



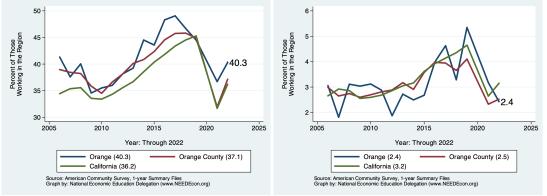
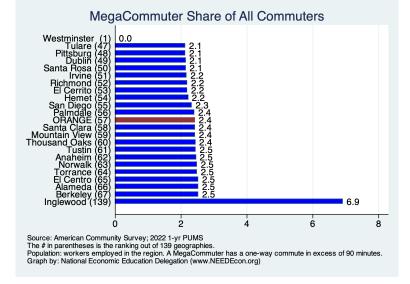


Figure 84: Rank: Share of MegaCommuters Across Similar Geographies



Place of Work

This section provides evidence on where workers living in Orange work. As evidenced in the first table, some of Orange'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 Orange city boundary.

	Male Female All W		All Wo	orkers	All of CA		
Place of Work	#	(%)	#	(%)	#	(%)	(%)
Worked in state of residence:	40,435	99.5	33, 365	96.7	73,800	99.9	99.6
Worked in county of residence	35,318	86.9	29,741	86.2	65,059	88.1	85.3
worked outside of county of residence	5,117	12.6	3,624	10.5	8,741	11.8	14.3
Worked outside state of residence	0	0.0	62	0.2	62	0.1	0.4
Total:	40,435	99.5	33,427	96.8	73,862	100.0	

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

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

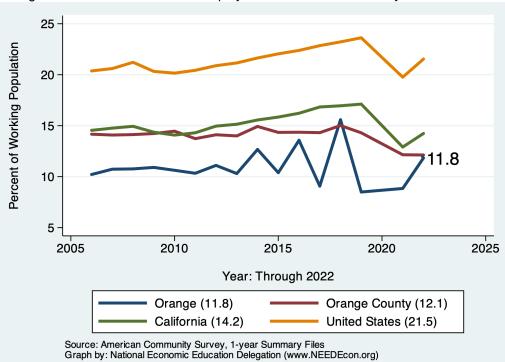


Figure 85: Percent of Workers Employed Outside of Their County of Residence

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

	Male Female		All W	All Workers			
Place of Work	#	(%)	#	(%)	#	(%)	(%)
Living in a place:	40,435	99.5	33,427	96.8	73,862	100.0	95.8
Worked in place of residence	12,236	30.1	11,500	33.3	23,736	32.1	42.3
Worked outside place of residence	28,199	69.4	21,927	63.5	50, 126	67.9	53.4
Not living in a place	0	0.0	0	0.0	0	0.0	4.2
Total:	40,435	99.5	33,427	96.8	73,862	100.0	

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

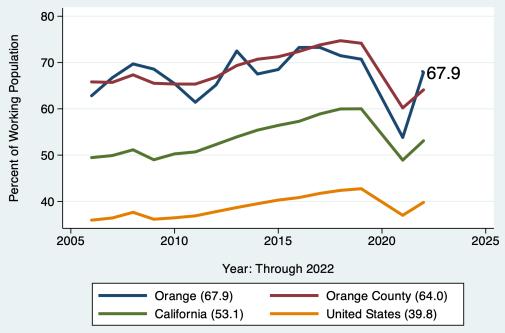


Figure 86: Percent of Workers Employed Outside of Their Place of Residence

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	California		United Sta	tes
	Median	Median	Ratio	Median	Ratio
Car, truck, or van - drove alone	54,254	48,335	104.2	45,677	102.6
Car, truck, or van - carpooled	37,403	35,926	96.7	34,518	93.6
Public transportation (excluding taxicab)	32,646	34,625	87.5	41,443	68.1
Walked	15,791	30,552	48.0	27,247	50.1
Taxicab, motorcycle, bicycle, or other means	42,974	40,631	98.2	36,218	102.5
Worked from home	69, 697	79,738	81.1	69,180	87.0
Total:	53,663	49,818	107.7	46,365	115.7

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

	< \$25	,000	\$25,000-\$	\$74,999	\$75,0	00+	Al	I	All of CA
Mode of Transit	#	(%)	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van: Drove Alone	11, 133	45.5	15,368	65.1	17,967	67.2	49,551	67.1	68.4
Car, Truck, or Van: Carpooled	2,128	8.7	1,806	7.6	1,555	5.8	6,449	8.7	9.5
Public Transportation (excl Taxi)	527	2.2	308	1.3	93	0.3	1,074	1.5	3.6
Walked	1,027	4.2	663	2.8	228	0.9	2,117	2.9	2.4
Taxicab, Motorcycle, or other	418	1.7	344	1.5	216	0.8	1,098	1.5	2.4
Worked at Home	1,685	6.9	2,663	11.3	4,821	18.0	9,868	13.4	13.6
Total:	16,918	69.1	21,152	89.6	24,880	93.1	70,157	95.0	100.0

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

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

		000	¢05 000	A74 000	Ф 7Г О	00.	A 11		AU - 4 O A
	< \$25	,000	\$25,000-	\$74,999	\$75,0	00+	All		All of CA
Mode of Transit	#	(%)	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van: Drove Alone	16,815	49.1	24,483	64.9	27,349	76.6	77,983	71.0	68.5
Car, Truck, or Van: Carpooled	2,879	8.4	3,697	9.8	2,629	7.4	10,501	9.6	9.5
Public Transportation (excl Taxi)	697	2.0	566	1.5	343	1.0	1,804	1.6	3.6
Walked	1,338	3.9	647	1.7	304	0.9	2,560	2.3	2.4
Taxicab, Motorcycle, or other	640	1.9	479	1.3	257	0.7	1,605	1.5	2.4
Worked at Home	1,685	4.9	2,663	7.1	4,821	13.5	9,868	9.0	13.6
Total:	24,054	70.3	32,535	86.2	35,703		104, 321	94.9	

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

	In Poverty		100-149% of Pov		>150% of Pov		All		All of CA
Mode of Transit	#	(%)	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van: Drove Alone	2,849	52.1	2,613	50.2	46,502	70.2	51,964	71.0	65.8
Car, Truck, or Van: Carpooled	194	3.5	365	7.0	5,940	9.0	6,499	8.9	9.8
Public Transportation (excl Taxi)	0	0.0	47	0.9	456	0.7	503	0.7	2.6
Walked	0	0.0	69	1.3	1,251	1.9	1,320	1.8	2.1
Taxicab, Motorcycle, or other	0	0.0	0	0.0	1,217	1.8	1,217	1.7	2.4
Worked at Home	511	9.3	312	6.0	10,850	16.4	11,673	16.0	17.2
Total:	3,554	64.9	3,406	65.5	66, 216		73,176		

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

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

	In Po	verty	100-149	% of Pov	>150%	of Pov	Al		All of CA
Mode of Transit	#	(%)	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van: Drove Alone	2,296	32.8	4,305	56.1	67,046	67.4	73,647	67.4	65.8
Car, Truck, or Van: Carpooled	413	5.9	735	9.6	7,569	7.6	8,717	8.0	9.8
Public Transportation (excl Taxi)	144	2.1	37	0.5	2,347	2.4	2,528	2.3	2.6
Walked	0	0.0	226	2.9	1,450	1.5	1,676	1.5	2.1
Taxicab, Motorcycle, or other	139	2.0	39	0.5	1,407	1.4	1,585	1.5	2.4
Worked at Home	511	7.3	312	4.1	10,850	10.9	11,673	10.7	17.2
Total:	3,503	50.0	5,654	73.7	90,669	91.2	99,826	91.4	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 Orange is a net recipient (migration inflows) or donor (migration 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.

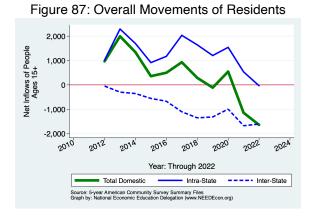


Table 17: Migration by Income

		N	et Inflows			
			Sam	e State		_
Catagony	Dopulation	All Migration	W/in	Between Counties	Across States	From Abroad
Category	Population	All Migration	County	Counties	States	Abroau
No income	17,034	-165	269	-780	168	178
With income	99,415	-294	467	-199	-1,336	774
\$1 to \$9,999 or loss	12,396	268	49	-114	289	44
\$10,000 to \$14,999	7,249	157	-111	96	172	0
\$15,000 to \$24,999	12,162	858	276	442	0	140
\$25,000 to \$34,999	9,165	-1,195	166	-350	-1,071	60
\$35,000 to \$49,999	12,841	-741	-653	-86	-176	174
\$50,000 to \$64,999	8,892	143	150	52	-108	49
\$65,000 to \$74,999	5,663	-494	56	-111	-591	152
\$75,000 or more	31,047	710	534	-128	149	155
All:	116, 449	-459	736	-979	-1,168	952

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.

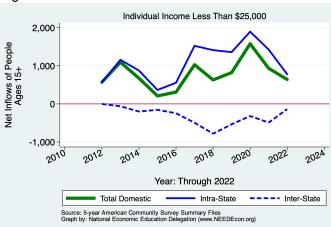
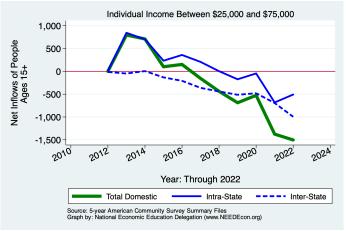
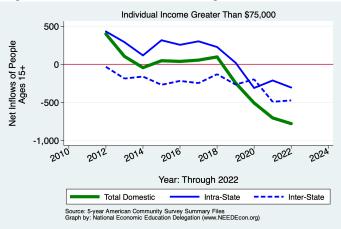


Figure 88: Overall Movements of Low Income Residents









Demographics of Migration Flows

Table 18: Migration by Marital Status

	Net Inflows								
			Sam	e State		_			
Category	Population	All Migration	W/in County	Between Counties	Across States	From Abroad			
Never married	44,640	212	452	60	-609	309			
Now married, except separated	54,092	0	630	-886	-196	452			
Divorced	10,864	-339	-52	-279	-148	140			
Separated	2,178	-206	-153	8	-61	0			
Widowed	4,675	-126	-141	118	-154	51			
Total:	116, 449	-459	736	-979	-1,168	952			

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

Table 19: Migration by Tenure

	Net Inflows							
				State				
Category	Population	All Migration	W/in County	Between Counties	Across States	From Abroad		
Householder lived in owner-occupied housing units Householder lived in renter-occupied housing units	72,782 56,021	$\begin{array}{c}1,210\\-1,828\end{array}$	$1,814 \\ -1,609$	$-707 \\ -177$	$-606 \\ -509$	$709 \\ 467$		
Total:	128,803	-618	205	-884	-1,115	1,176		

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

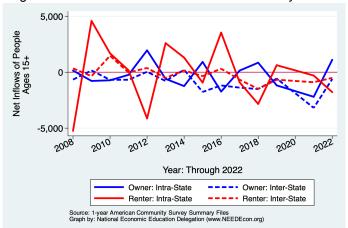


Figure 91: Domestic Movements of Residents by Tenure

		N	let Inflows			_
			Sam	e State		
			W/in	Between	Across	From
Category	Population	All Migration	County	Counties	States	Abroad
1 to 4 years	6,462	83	210	-12	-174	59
5 to 17 years	20,631	-26	214	-129	-152	41
18 and 19 years	4,188	94	32	114	-81	29
20 to 24 years	10,846	53	371	-338	-49	69
25 to 29 years	10,903	-55	257	-242	-127	57
30 to 34 years	11,585	-572	143	-432	-408	125
35 to 39 years	10,218	-293	-187	-31	-96	21
40 to 44 years	8,006	-98	19	54	-171	0
45 to 49 years	9,097	303	145	117	-50	91
50 to 54 years	8,660	-182	-138	-5	-47	8
55 to 59 years	8,705	-137	102	-120	-138	19
60 to 64 years	8,068	-411	-157	-30	-244	20
65 to 69 years	6,662	-185	-51	$^{-8}$	-148	22
70 to 74 years	5,159	-27	-73	39	-1	8
75 years and over	8,231	143	141	0	2	0
Total Population:	137, 421	-1,310	1,028	-1,023	-1,884	569

Table 20: Migration by Age

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

Table 21: Migration by Educational Attainment

		Net Inflows				
		Same State			-	
Category	Population	All Migration	W/in County	Between Counties	Across States	From Abroad
Less than high school graduate	11,456	1,085	611	300	0	174
High school graduate (includes equiv)	17,698	-1,005	-515	72	-562	0
Some college or assoc. degree	28,996	-207	218	-640	75	140
Bachelor's degree	26,086	907	623	-313	60	537
Graduate or professional degree	13,160	-963	-452	-355	-213	57
Total:	97,396	-183	485	-936	-640	908

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	43,995	43,995
Moved Within Same County	50,757	47,767
Moved to Different County, Same State	37,564	41,484
Moved Between States	13,321	33, 197
Moved from Abroad	37,055	
Total Population:	43,831	43,560

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	41.4	41.4
Moved Within Same County	31.4	32.7
Moved to Different County, Same State	29.0	28.7
Moved Between States	26.1	25.8
Moved from Abroad	32.3	
Total Population:	39.8	40.0

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 relased in January.

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

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