

# **Solvang, California**

## *Indicators Report*

by  
The National Economic Education Delegation (NEED)

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Exploring the economics, demographics, and well-being of Solvang 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 Solvang (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 Solvang. These indicators are compared to Santa Barbara 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 Solvang 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 Solvang 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 Solvang, 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 Solvang, but do not necessarily live in Solvang.
- **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 Solvang's population are fundamental indicators of the city's growth potential.

***A Demographic Snapshot***

Statistic	2022	2019
<b>POPULATION</b>		
Population Estimate (#, 5yr)	6,035.0	5,804.0
Veterans (#, 5yr)	323.0	340.0
Foreign born persons (% , 5yr)	18.4	15.7
Population age 25+ (#, 5yr)	4,567.0	4,363.0
<b>AGE AND SEX</b>		
Persons under 5 years (% , 5yr)	2.0	2.4
Persons under 18 years (% , 5yr)	16.8	19.6
Persons 65 years and over (% , 5yr)	30.2	23.2
Female persons (% , 5yr)	55.1	55.3
<b>INCOME AND POVERTY</b>		
Median household income (\$ , 5yr)	108,074.0	83,431.0
Per capita income in past 12 months (\$ , 5yr)	65,211.0	50,841.0
Persons in poverty (% , 5yr)	7.2	9.7
Children age less than 18 in poverty (#, 5yr)	84.0	248.0
Children age less than 18 in poverty (% , 5yr)	8.8	21.8
<b>RACE AND ETHNICITY</b>		
White alone (% , 5yr)	73.0	90.6
African American alone (% , 5yr)	3.3	1.2
American Indian or Alaska Native alone (% , 5yr)	0.0	0.4
Asian alone (% , 5yr)	2.7	2.7
Native Hawaiian and Other Pacific Islander alone (% , 5yr)	0.0	0.0
Two or More Races (% , 5yr)	13.2	2.2
Hispanic or Latino (% , 5yr)	26.9	26.1
White alone, not Hispanic or Latino (% , 5yr)	63.8	68.1
<b>HOUSING</b>		
Housing units (#, 5yr)	2,563.0	2,566.0
Owner-occupied housing units (% , 5yr)	55.2	62.3
Median value of owner-occupied housing units (\$ , 5yr)	868,000.0	729,200.0
Median selected monthly owner costs-with a mortgage (\$ , 5yr)	3,726.0	3,021.0
Median selected monthly owner costs-without a mortgage (\$ , 5yr)	855.0	1,095.0
Median gross rent (\$ , 5yr)	1,736.0	1,531.0
<b>FAMILIES AND LIVING ARRANGEMENTS</b>		
Households (#, 5yr)	2,459.0	2,380.0
Persons per household (#, 5yr)	2.4	2.4
Living in same house 1 year ago, % of persons age 1+ (5yr)	83.8	79.8
<b>EDUCATION</b>		
High school graduate or higher, % of persons age 25+ (5yr)	92.7	94.2
Bachelor's degree or higher, % of persons age 25+ (5yr)	36.9	38.2
<b>HEALTH</b>		
With a disability, under age 65 years (#, 5yr)	140.0	151.0
Persons without health insurance, under age 65 years (% , 5yr)	6.8	7.6
<b>LABOR FORCE</b>		
In civilian labor force, persons age 16+ (% , 5yr)	61.5	66.1
In civilian labor force, women age 16+ (% , 5yr)	59.1	61.1
Employed, persons age 16+ (% , 5yr)	54.9	59.3
Self employed (% , 5yr)	18.6	15.1
<b>TRANSPORTATION</b>		
Mean travel time to work, workers age 16+ (Mins., 5yr)	29.7	23.1
Drive alone in private vehicle (% , 5yr)	72.6	64.6
Using public transportation (% , 5yr)	0.6	1.8
Worked from home (% , 5yr)	14.0	11.4

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 Population	% Change		
		1 Year	3 Year	5 Year
<b>City</b>				
Solvang	5,669	-0.44	2.09	-3.08
<b>County and Broader Regions</b>				
Santa Barbara County	440,557	-0.59	-2.21	-2.69
Central Coast	1,411,324	-0.74	-1.86	-2.79
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	Central Coast	California
Santa Barbara County	443.2	440.6	-0.59	-0.74	-0.35
Santa Maria	109.6	109.5	-0.13		
Santa Barbara	86.3	85.4	-1.00		
Lompoc	43.7	43.5	-0.55		
Goleta	32.4	32.4	0.21		
Carpinteria	12.9	12.7	-1.20		
Guadalupe	8.5	8.5	0.57		
Solvang	5.7	5.7	-0.44		
Buellton	5.0	4.9	-1.26		

Source: CA DOF; Calculations by National Economic Education Delegation

Figure 1: Population Growth (1)

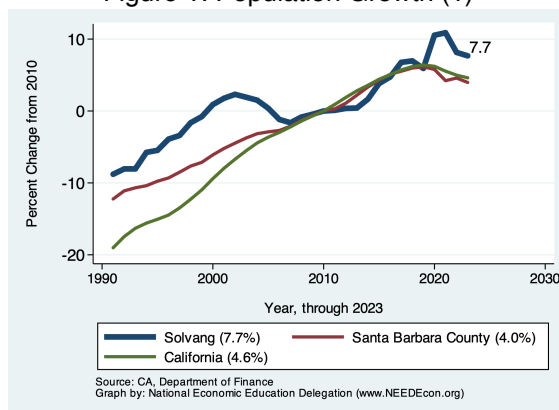


Figure 2: Population Growth (2)

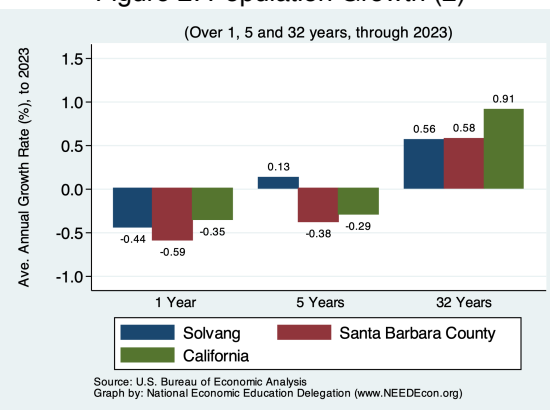


Figure 3: Population by Age - Detailed Age Categories

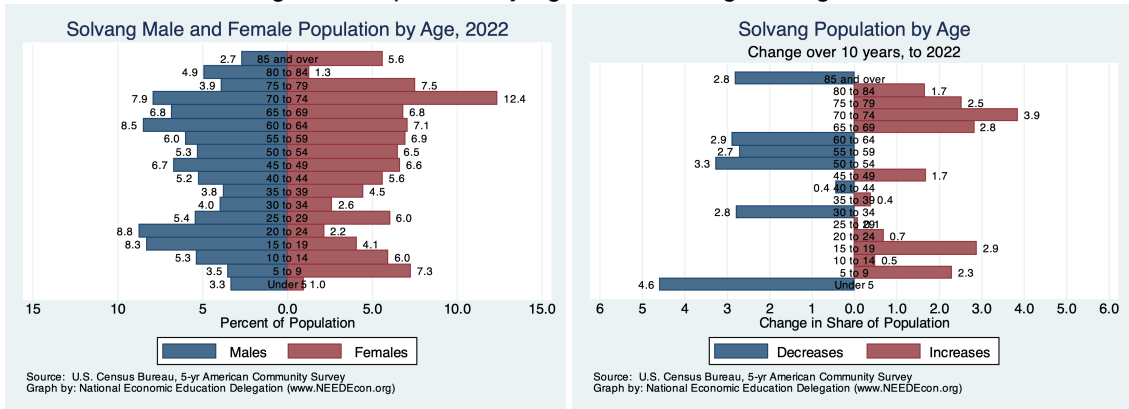


Figure 4: Population by Age - Broad Age Categories

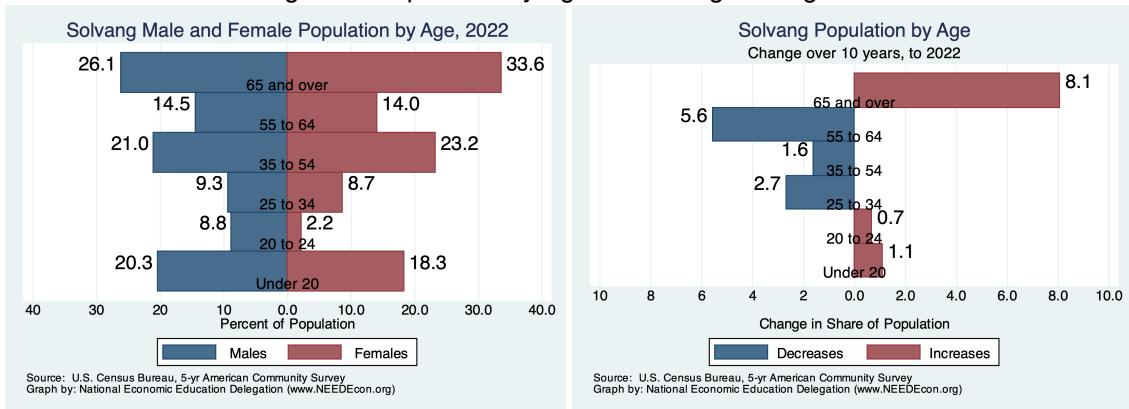


Figure 5: Population by Educational Attainment

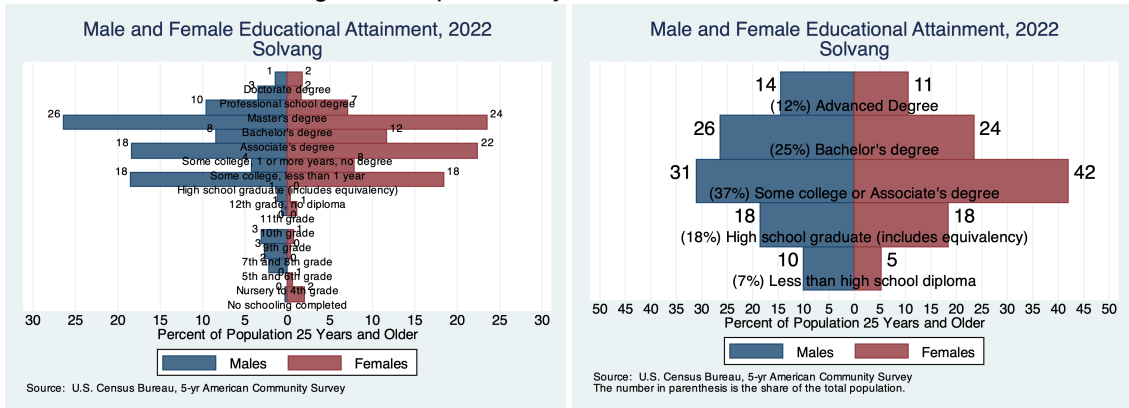


Figure 6: Population by Race/Ethnicity

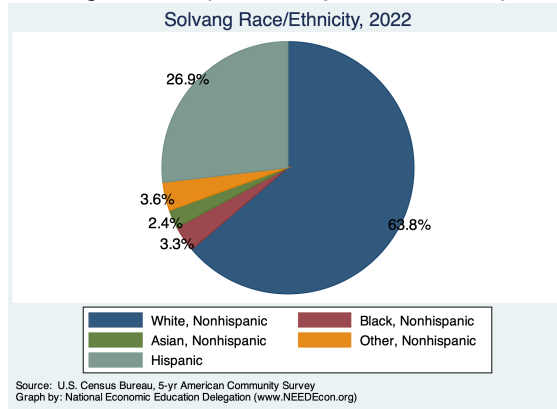
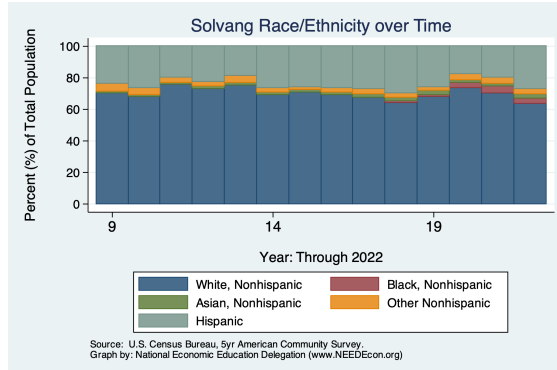


Figure 7: Population by Race/Ethnicity Over Time





# 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. Solvang 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 9: Employment and Unemployment - Last 12 Months

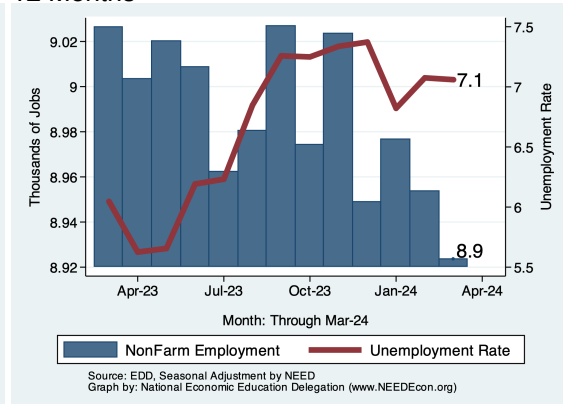


Figure 10: Relative Employment Growth Across Regions - since 2010

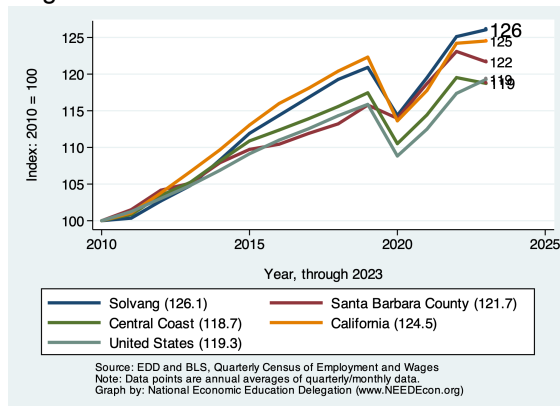
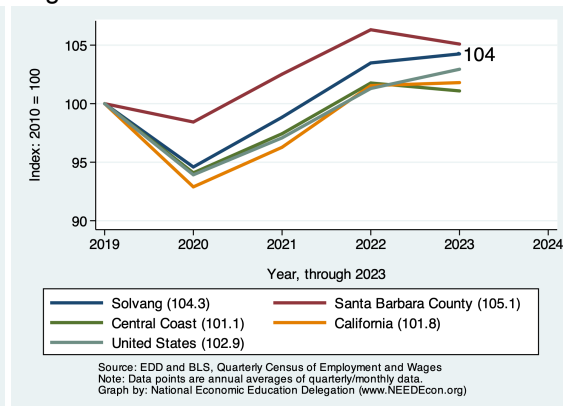


Figure 11: Relative Employment Growth Across Regions - since 2019



## 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 Santa Barbara County. The following table provides the latest data for the County.

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

Industry	Employment	Share	Empl Growth	% Growth - Annualized Rate					
				Month	Qtr	6mo	1yr	3yr	5yr
<b>Total Nonfarm</b>	192,204	100.0	392.1	2.5	1.5	1.9	1.4	2.9	0.3
<b>Total Private</b>	156,479	81.4	-32.3	-0.2	1.9	1.6	1.3	3.4	0.9
<b>Goods Producing</b>	23,158	12.0	47.9	2.5	-1.1	0.1	0.4	2.3	-0.0
Mining, Logging and Construction	10,601	5.5	75.7	9.0	0.0	0.6	3.0	3.2	1.0
Mining and Logging	600	0.3	0.0	0.0	0.0	0.0	0.0	0.0	-9.1
Construction	10,013	5.2	84.2	10.7	1.0	0.8	3.2	3.4	2.2
Manufacturing	12,539	6.5	-65.8	-6.1	-2.4	-0.4	-1.6	1.6	-0.8
Durable Goods	8,351	4.3	8.0	1.2	-5.0	-0.8	0.0	0.0	-2.1
<b>Service Providing</b>	169,066	88.0	553.2	4.0	1.8	2.2	1.5	2.9	0.3
Trade, Trans & Utilities	26,762	13.9	98.8	4.5	-0.6	-0.5	-1.2	-0.1	-0.2
Wholesale Trade	4,776	2.5	-26.8	-6.5	-5.6	-0.6	-4.2	-2.8	-1.4
Retail Trade	18,604	9.7	111.7	7.5	0.6	0.8	0.4	1.2	0.1
Information	4,287	2.2	-15.4	-4.2	-5.5	-6.7	-2.2	3.5	1.5
Financial Activities	7,084	3.7	19.9	3.4	0.8	3.8	1.4	1.4	1.0
Finance & Insurance	3,500	1.8	0.0	0.0	0.0	0.0	0.0	-1.8	-1.1
Real Estate & Rental & Leasing	3,555	1.8	21.7	7.6	0.4	6.4	2.8	5.4	3.3
Professional & Business Svcs	27,799	14.5	-52.7	-2.2	0.6	2.7	3.7	1.1	1.9
Prof, Sci, & Tech	12,375	6.4	-15.2	-1.5	1.2	0.6	-0.0	1.0	1.5
Educational & Health Svcs	31,950	16.6	233.3	9.2	5.8	5.1	5.3	3.8	2.8
Education Svcs	3,238	1.7	20.5	7.9	1.8	5.5	6.7	7.7	2.0
Health Care & Social Assistance	28,719	14.9	205.9	9.0	6.5	5.3	5.1	3.4	2.9
Leisure & Hospitality	28,388	14.8	-151.5	-6.2	-0.1	-1.4	-1.3	10.5	-0.4
Arts, Entertainment & Recreation	3,929	2.0	6.4	2.0	4.2	1.5	2.8	15.5	1.1
Accommodation & Food Svcs	24,445	12.7	-158.1	-7.4	0.0	-2.2	-2.0	9.8	-0.7
Other Svcs	6,773	3.5	16.2	2.9	1.4	1.5	-0.1	7.2	1.0
<b>Government</b>	35,818	18.6	93.0	3.2	1.0	2.5	1.7	0.9	-2.0
Federal	4,100	2.1	100.0	34.5	0.0	0.0	5.1	6.9	2.8
State	8,061	4.2	57.9	9.0	5.3	4.1	5.8	-6.0	-7.1
Local	23,597	12.3	58.3	3.0	1.9	3.0	-0.1	3.4	0.2
County	4,790	2.5	52.7	14.2	4.9	3.6	2.1	0.7	0.8
City	2,966	1.5	16.9	7.1	5.4	6.7	3.4	4.9	-0.3
Local Government Education	11,813	6.1	-28.9	-2.9	-3.9	-2.3	-3.2	3.5	-0.3

Source: EDD, National Economic Education Delegation (NEED)

## Some Employee Detail

### Employed in Solvang

Figure 12: Employment by Occupation

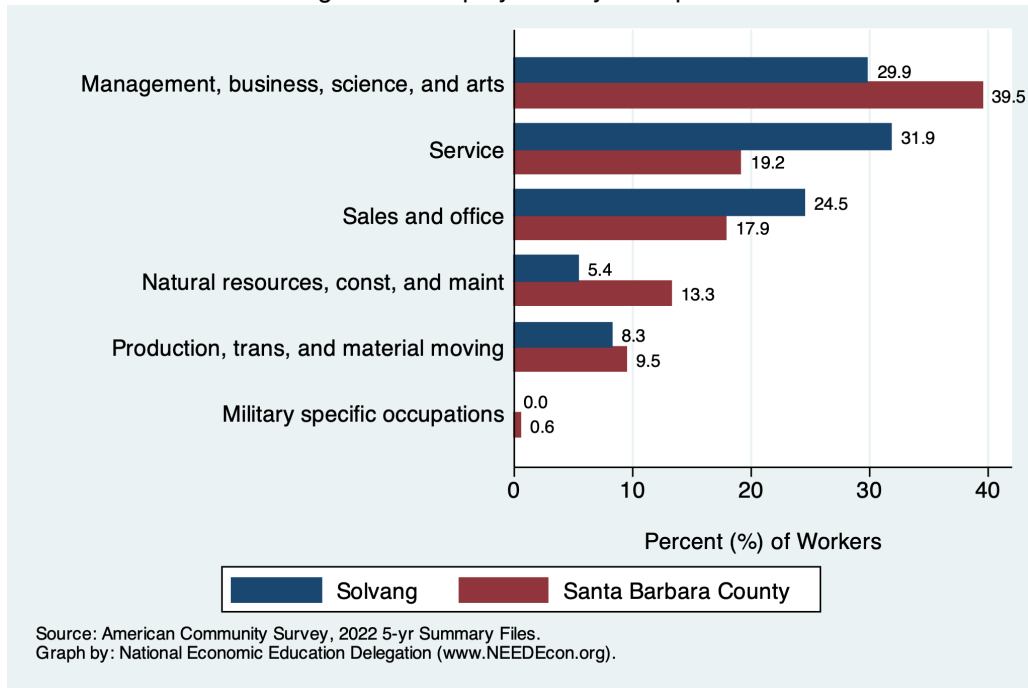


Figure 13: Employment by Industry

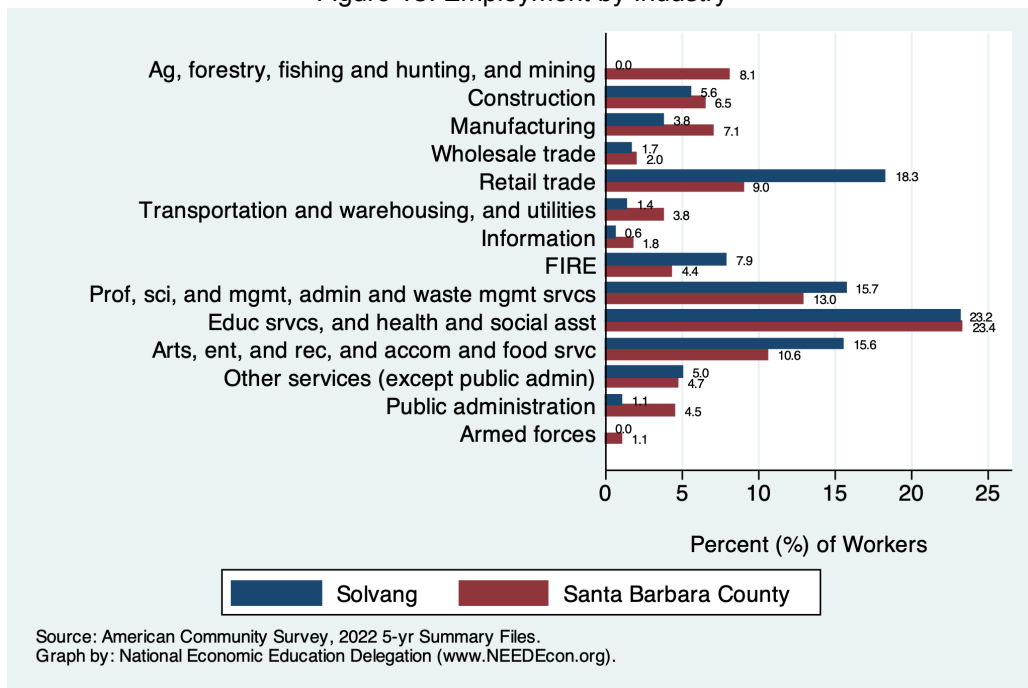


Figure 14: Language Spoken at Home

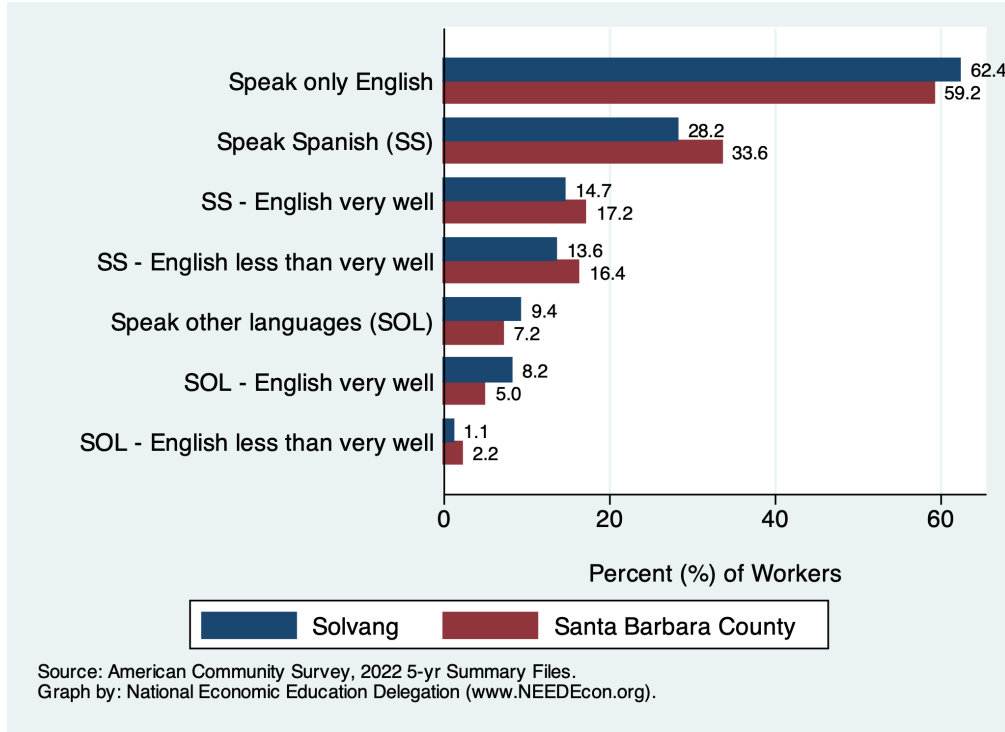
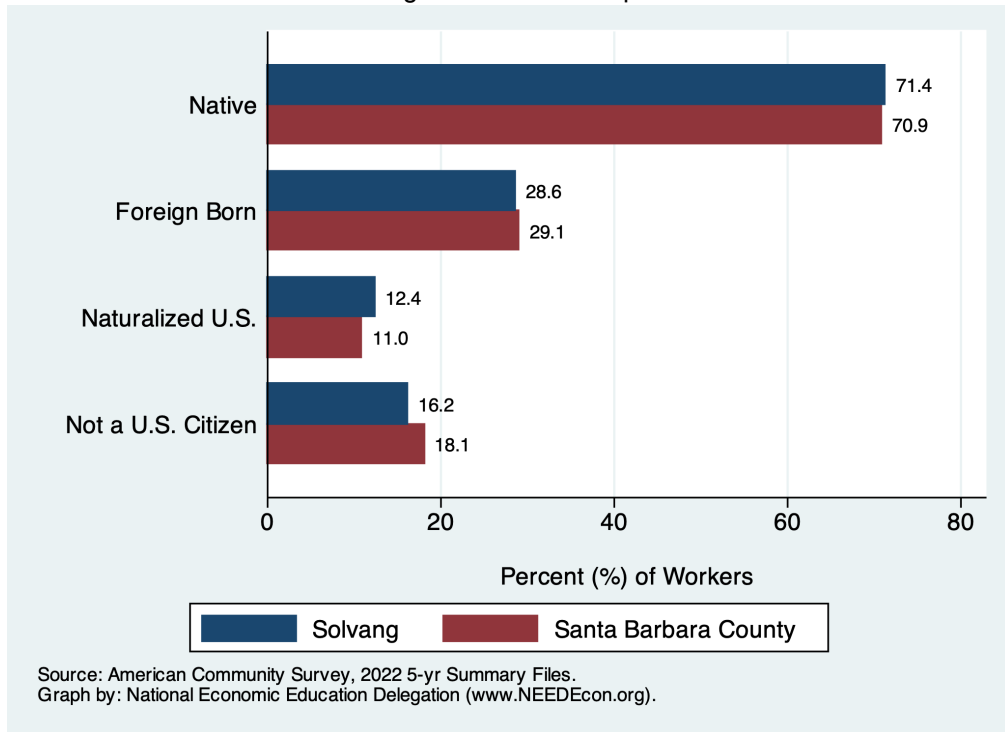


Figure 15: Citizenship



## Employed Residents of Solvang

Figure 16: Employment by Occupation

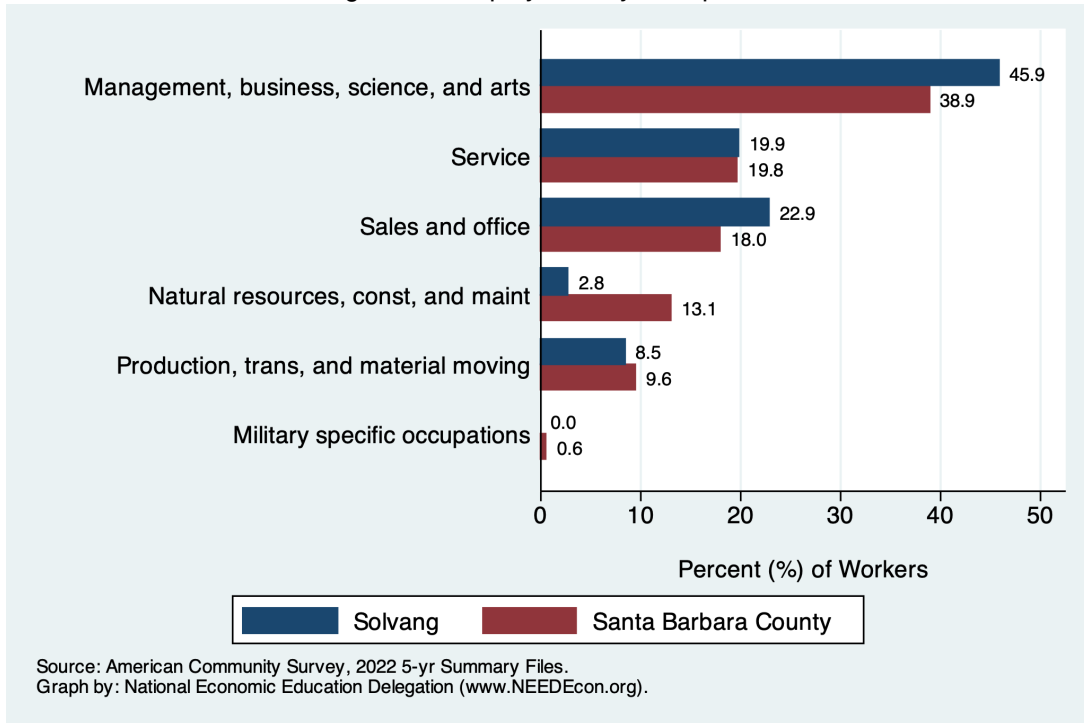


Figure 17: Employment by Industry

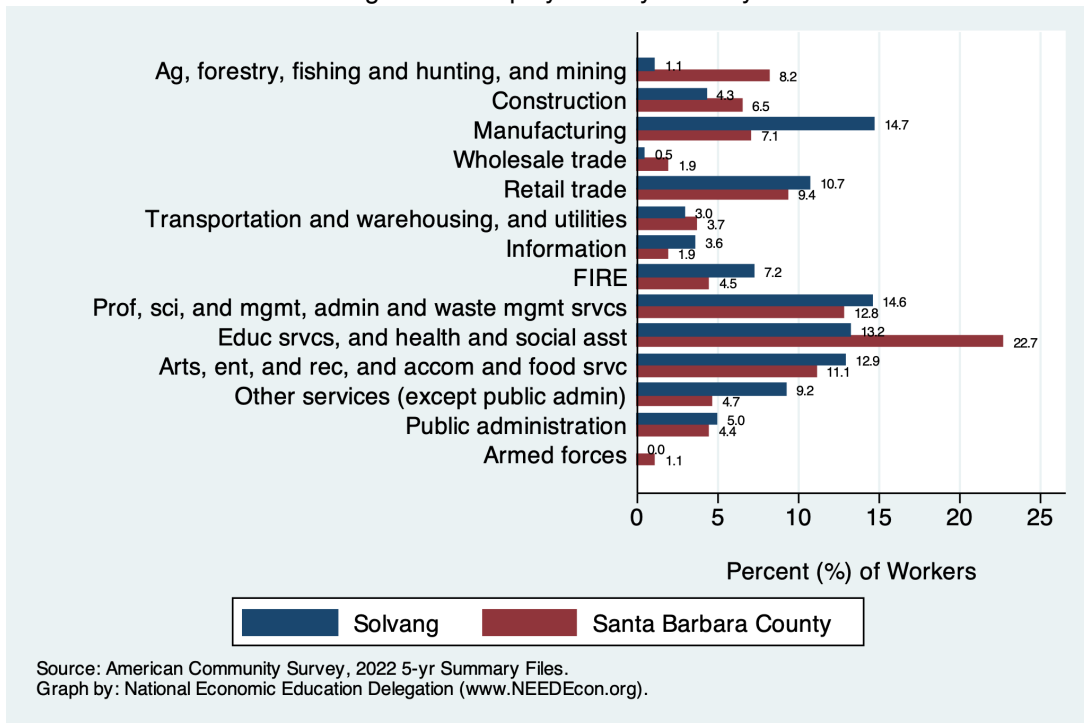
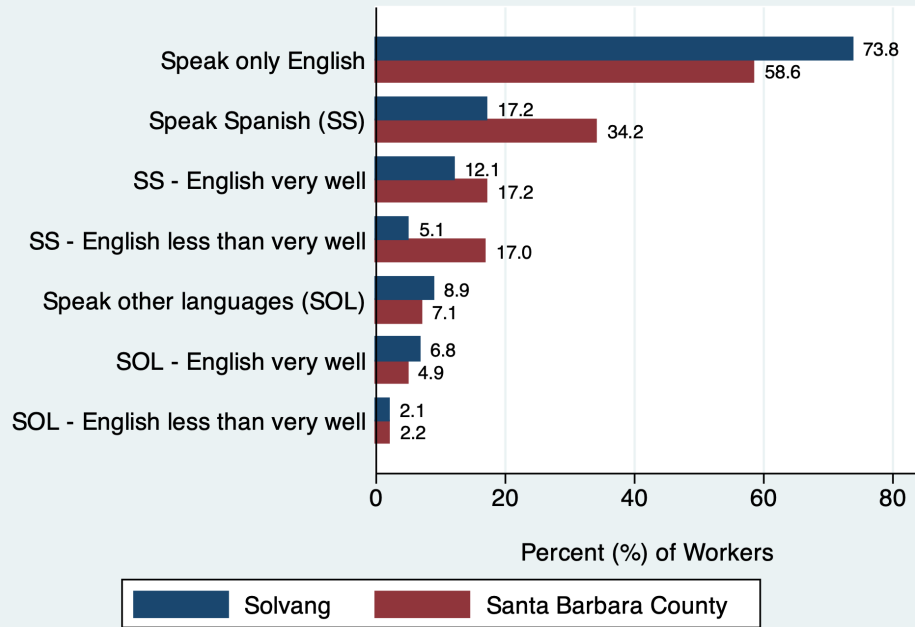
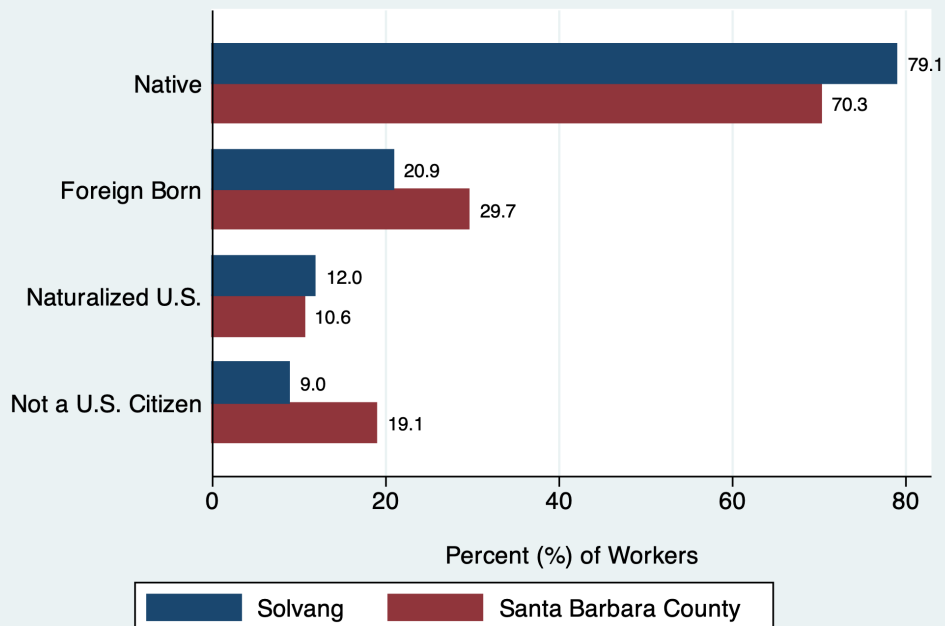


Figure 18: Language Spoken at Home



Source: American Community Survey, 2022 5-yr Summary Files.  
 Graph by: National Economic Education Delegation ([www.NEEDecon.org](http://www.NEEDecon.org)).

Figure 19: Citizenship



Source: American Community Survey, 2022 5-yr Summary Files.  
 Graph by: National Economic Education Delegation ([www.NEEDecon.org](http://www.NEEDecon.org)).

## Employed Residents vs Workers in Solvang

Figure 20: Employment by Occupation

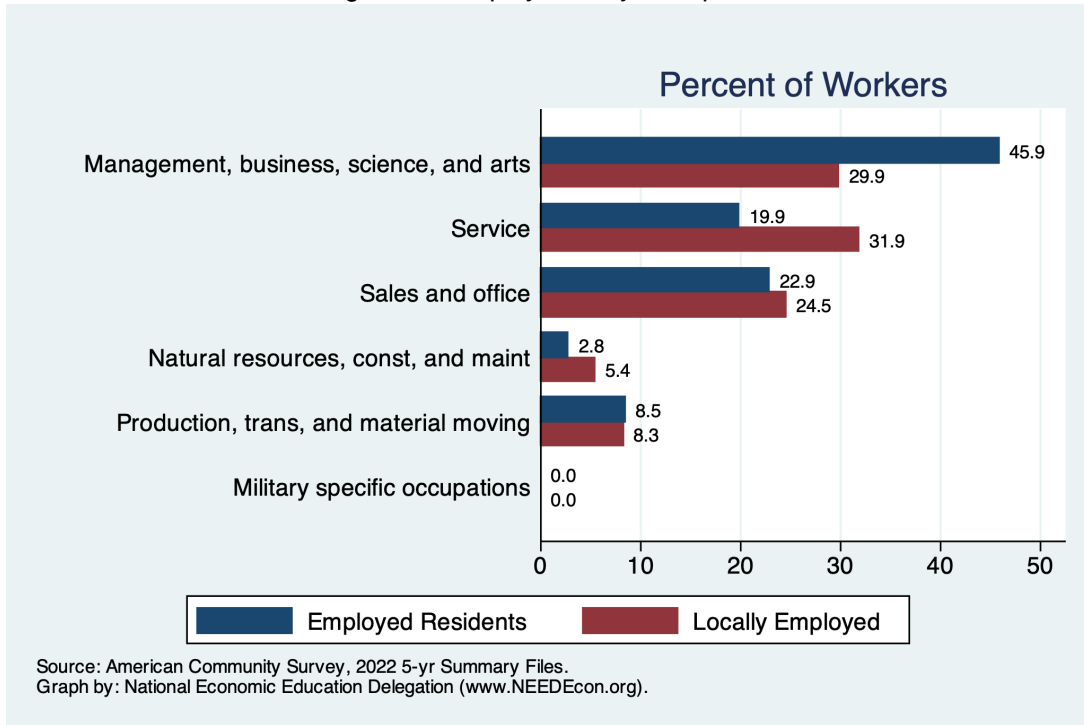


Figure 21: Employment by Industry

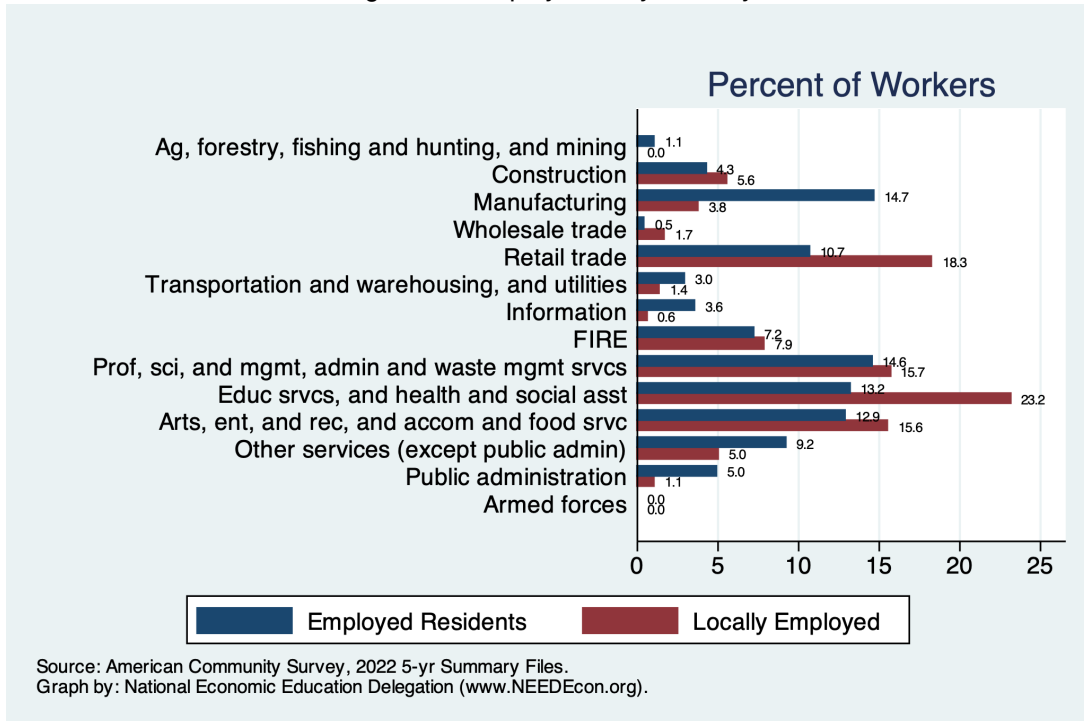


Figure 22: Language Spoken at Home

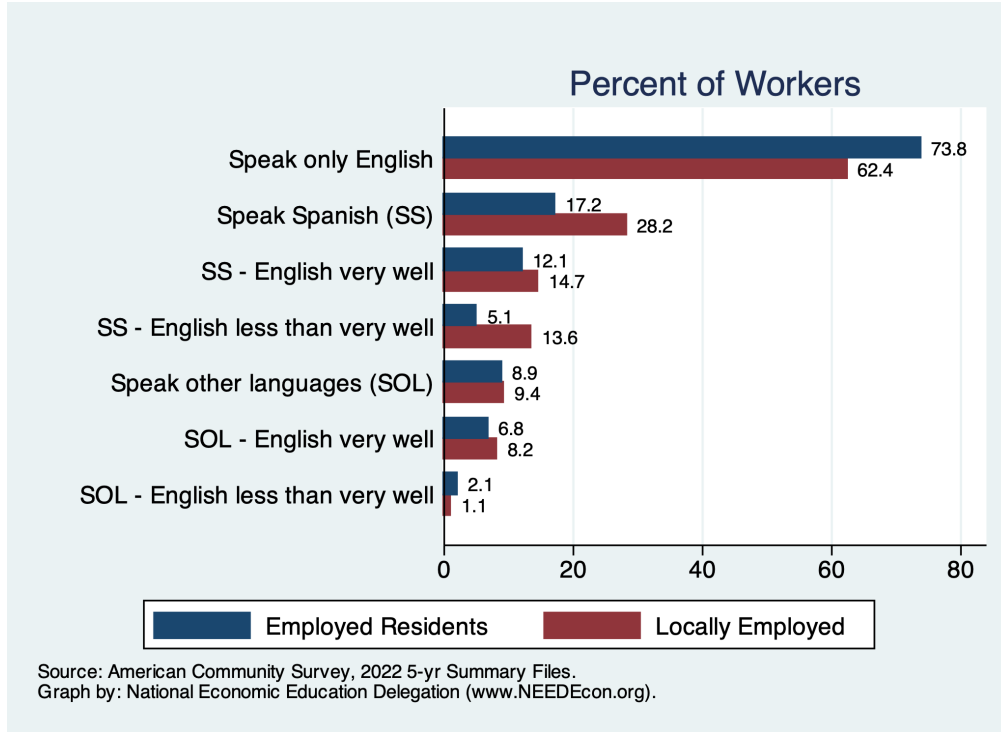
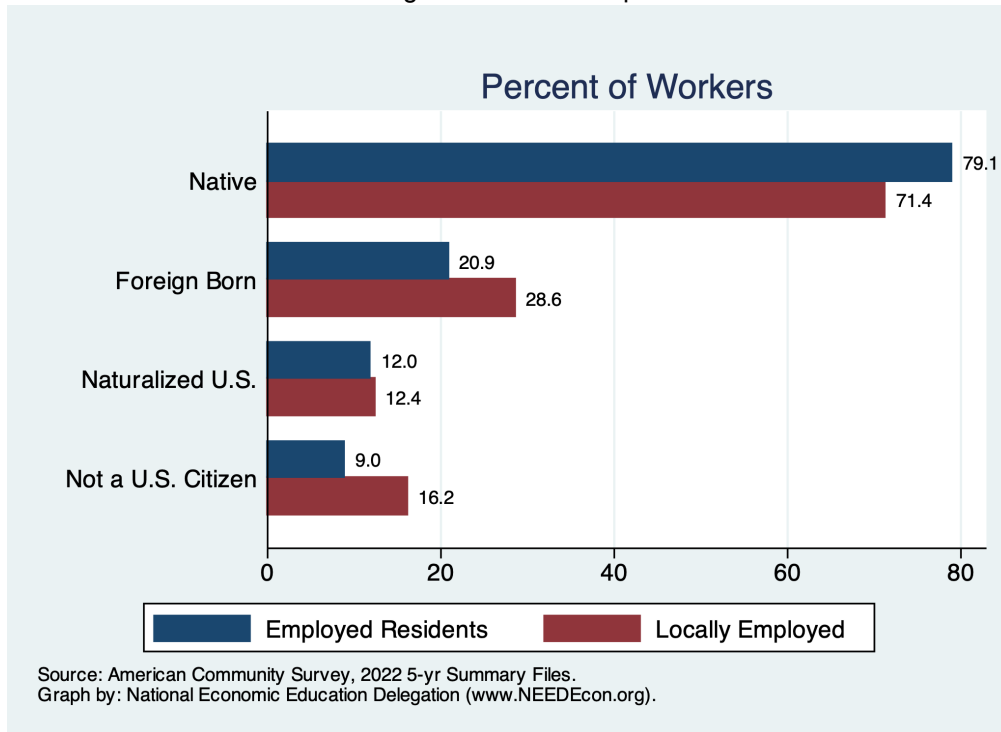


Figure 23: Citizenship





# Income and Earnings

## Per Capita Income Growth

### Definition:

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

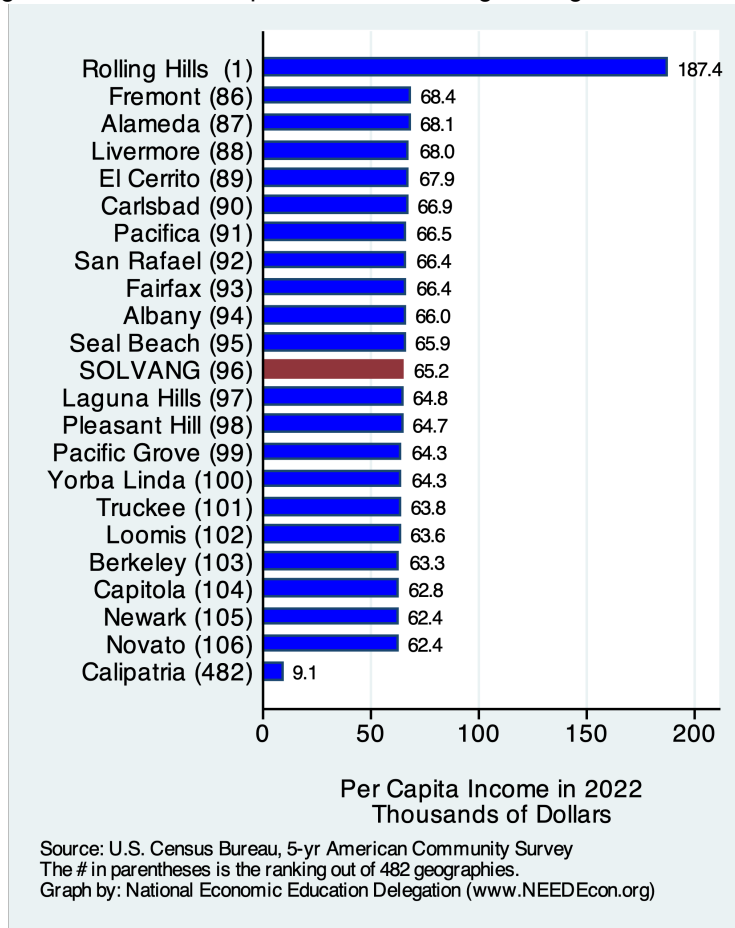
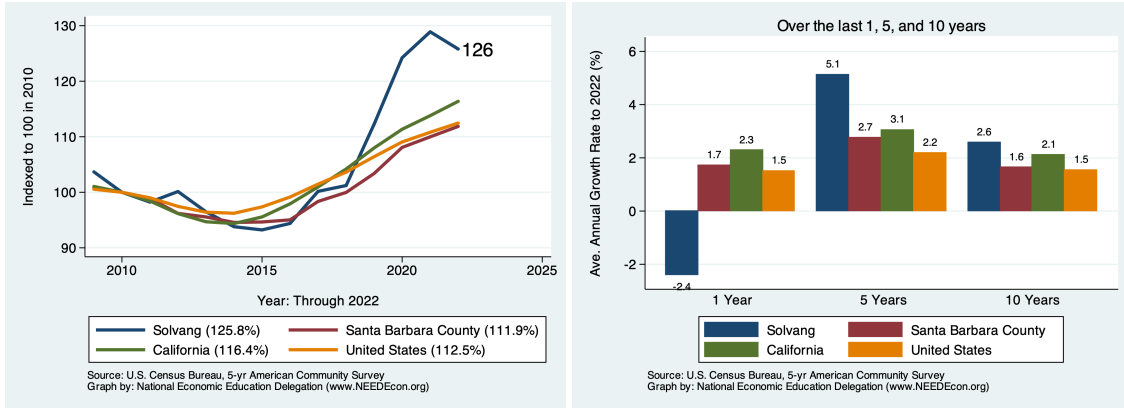


Figure 25: Regional Comparison of Growth over Time



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

Figure 26: Income Levels

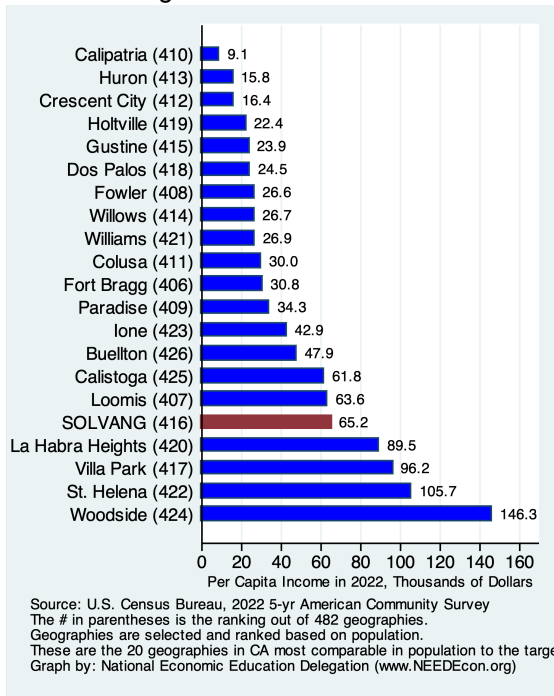
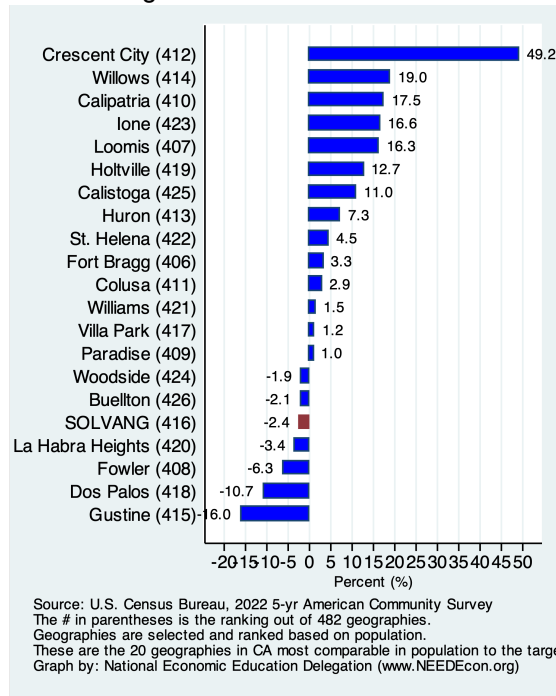


Figure 27: Growth over Time



## Real Per Capita Income Ranking Among Cities in Santa Barbara County

Figure 28: Income Levels

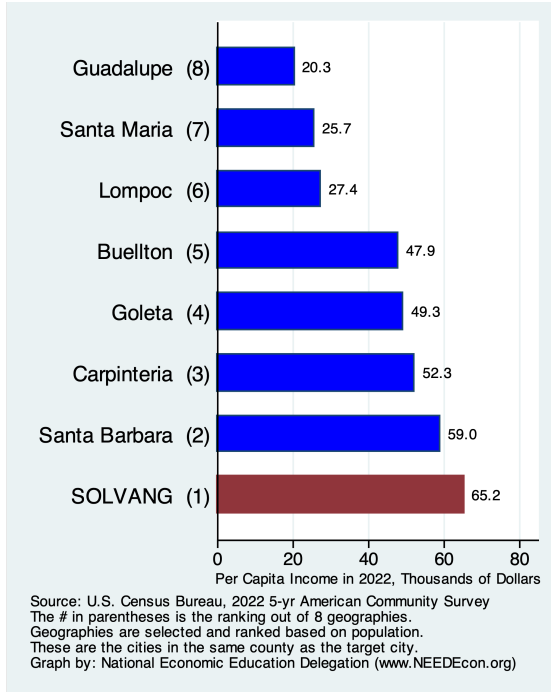


Figure 29: Growth over Time

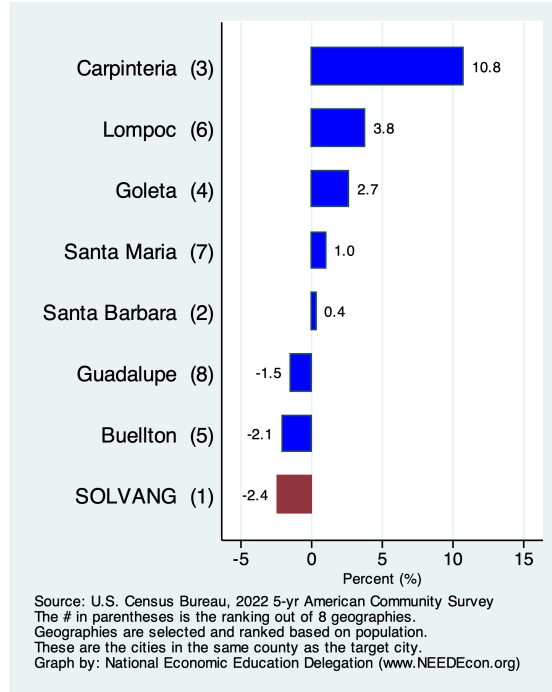
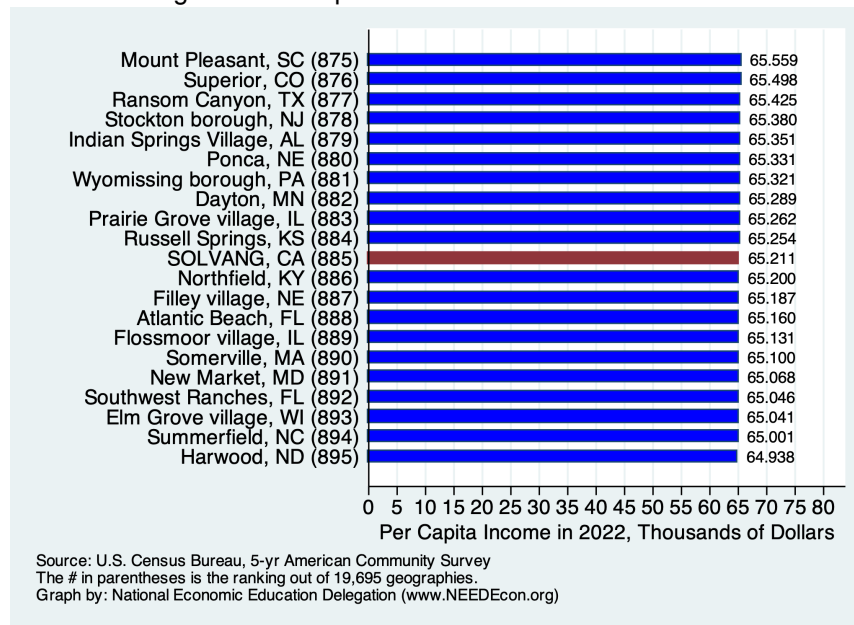


Figure 30: Comparison with All Cities Nationwide



## 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.

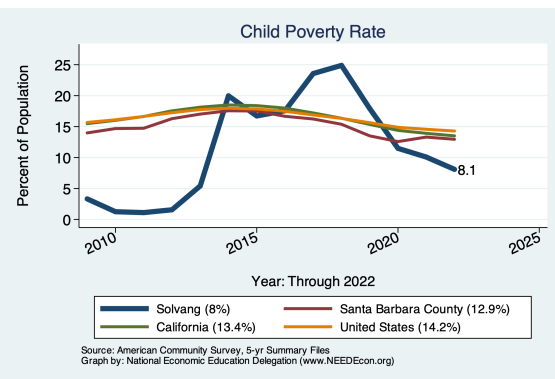
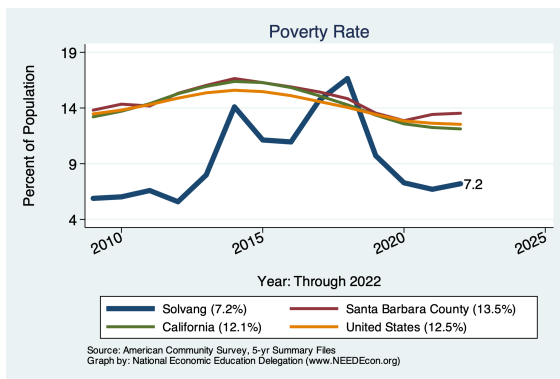


Figure 31: Inequality

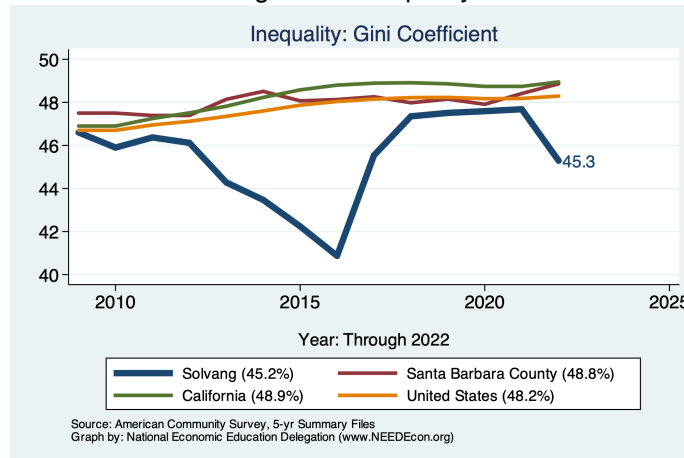


Figure 32: Shares Across the Income Distribution

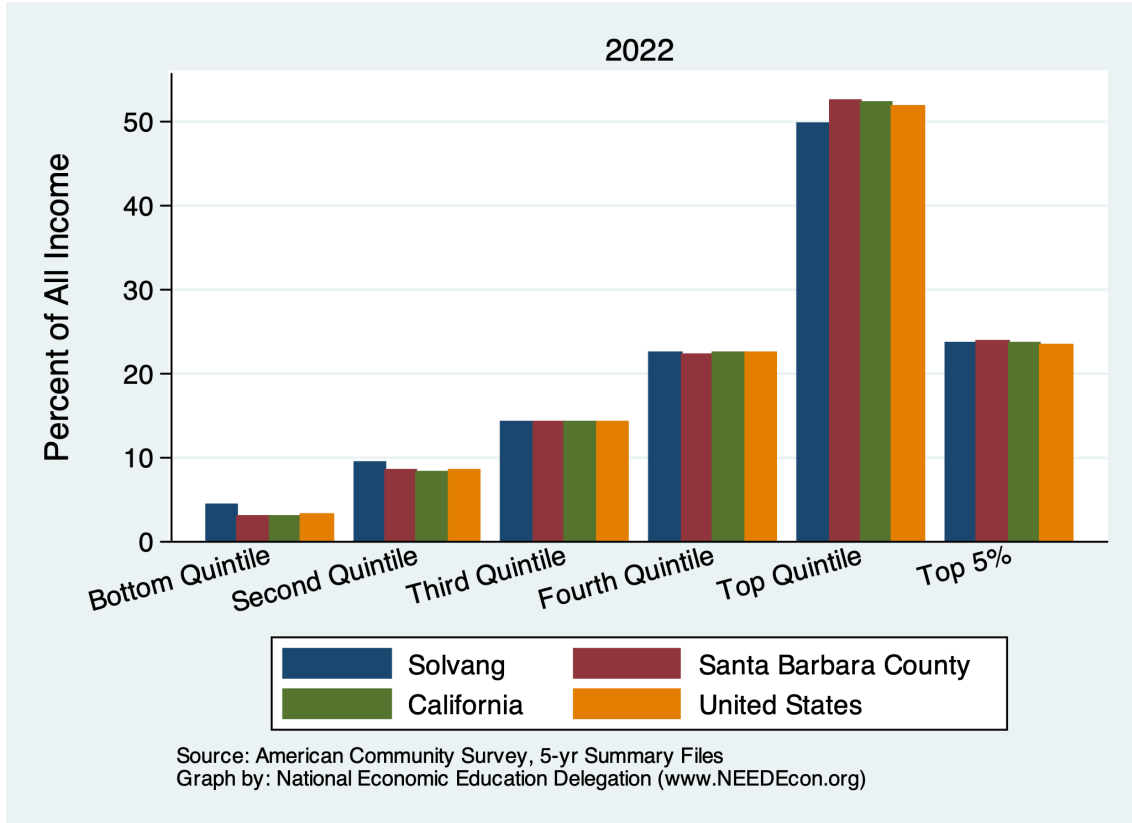
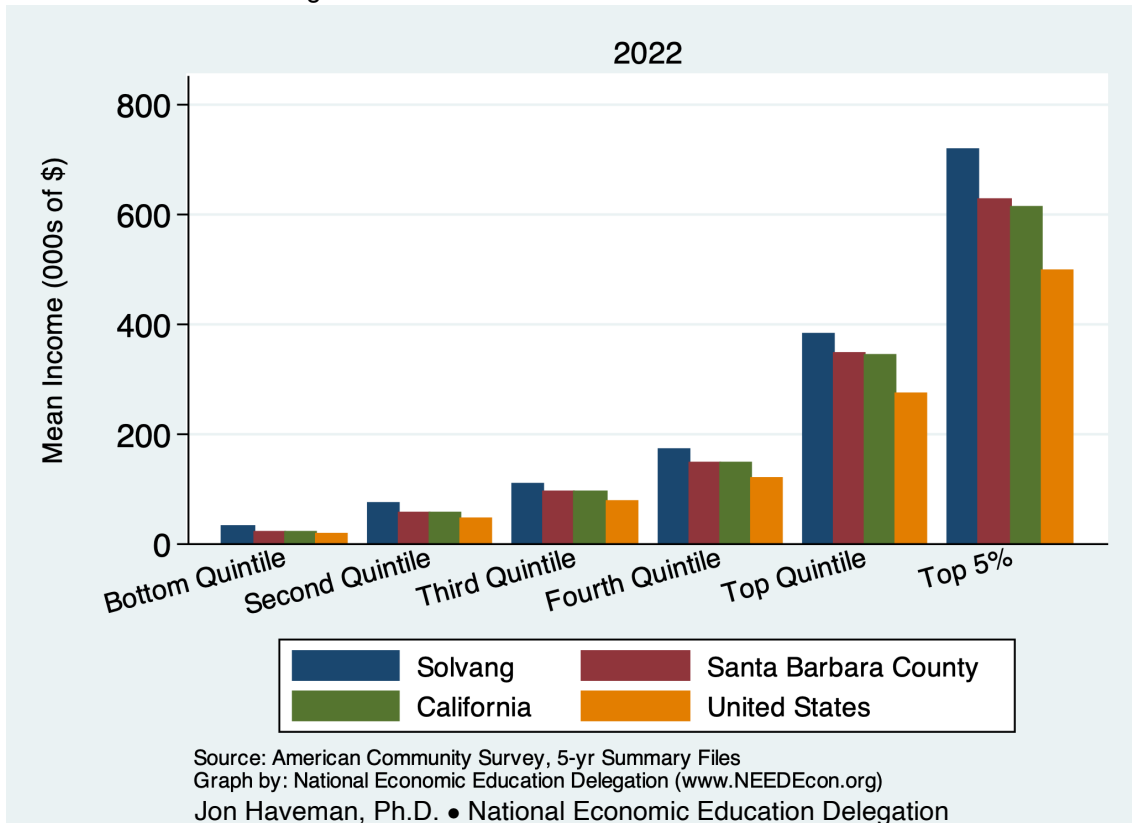


Figure 33: Means Across the Income Distribution



# 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 Solvang and Broader Regions

Figure 34: Median Home Prices

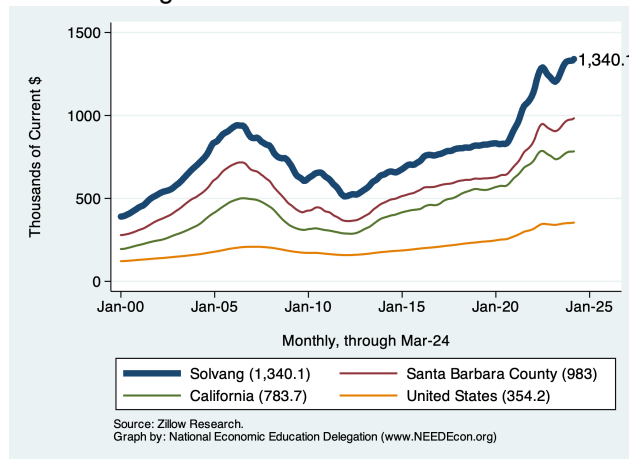


Figure 35: Median Rents

N/A

## Housing Ownership in Solvang and Broader Regions

Figure 36: Home Ownership Rates

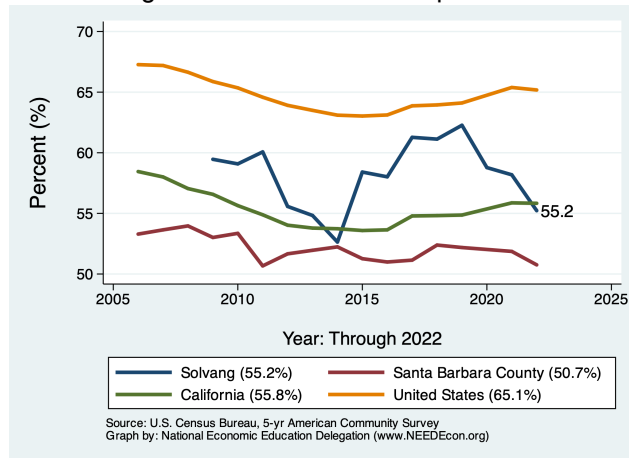


Figure 37: Home Ownership by Age

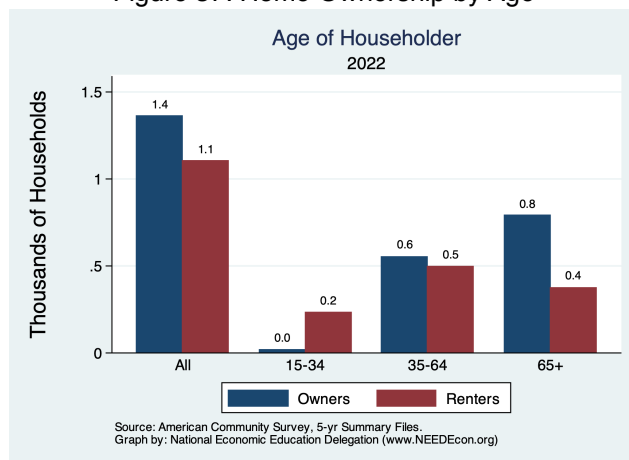


Figure 38: Income by Tenure

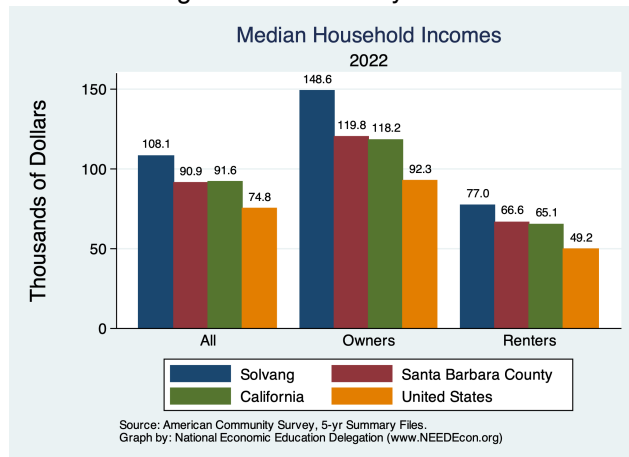


Figure 39: Income Distribution by Tenure

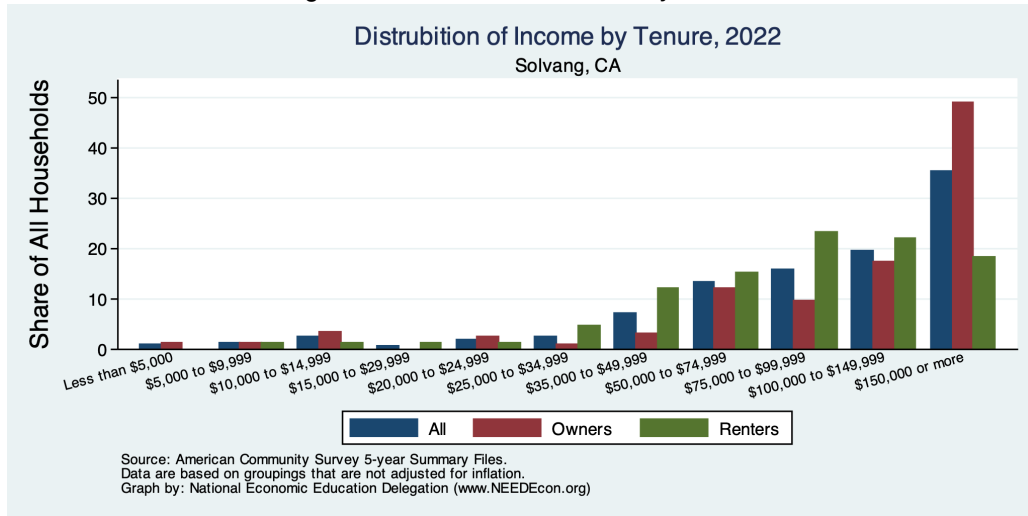


Figure 40: Income Distribution of Home Owners

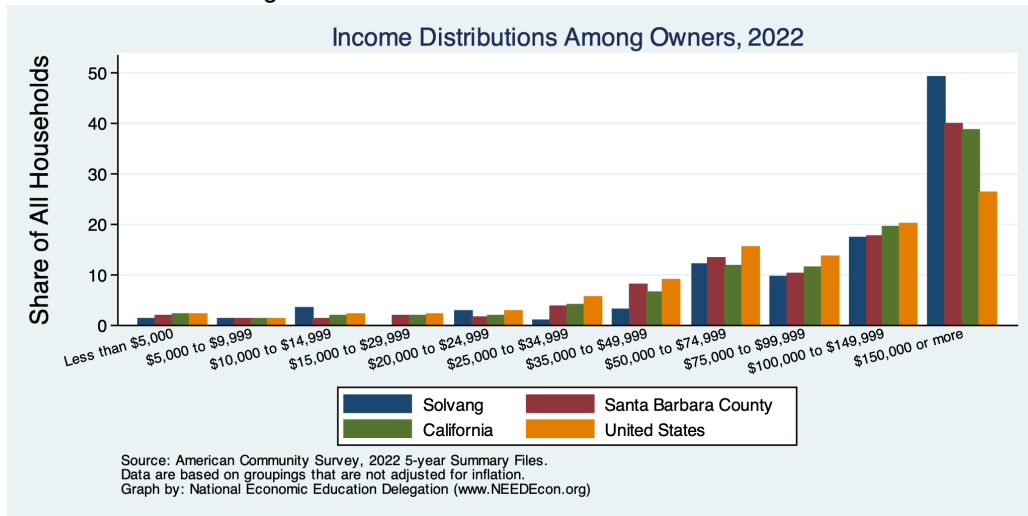
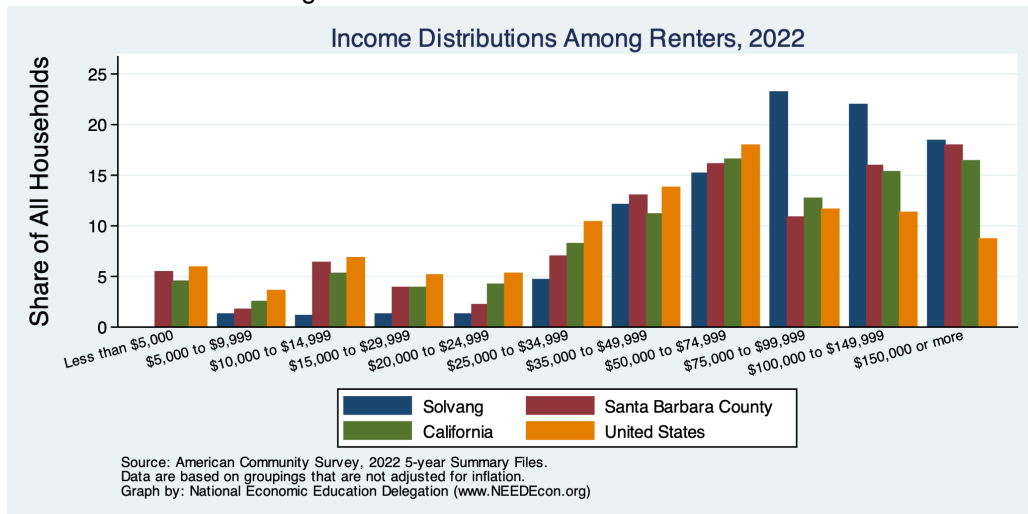


Figure 41: Income Distribution of Renters





## Housing Burden in Solvang and Broader Regions

Figure 42: Home Owners w/ A Mortgage

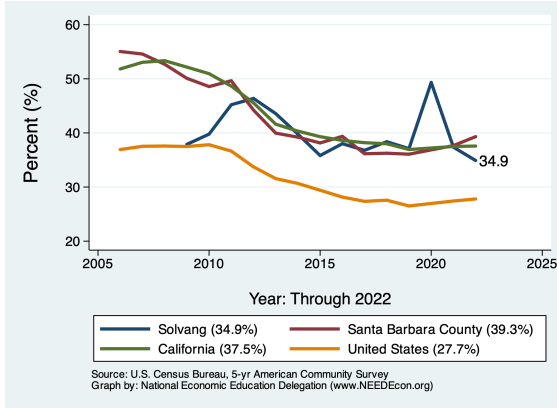


Figure 43: Home Owners w/o A Mortgage

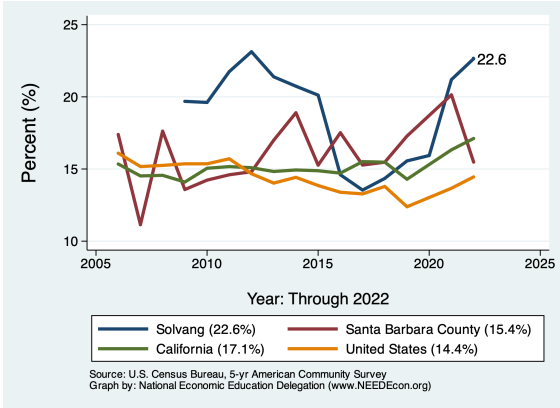


Figure 44: Renters

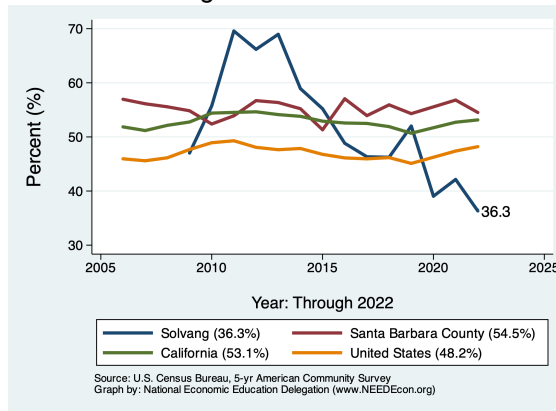


Figure 45: Homeowner Housing Burden by Age

N/A

# 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?

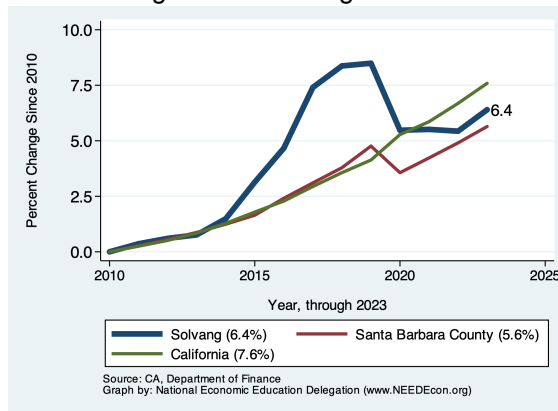
In areas where the rate of population growth exceeds the rate of housing growth, this is likely to reflect a tightening housing market. A tightening housing market will also likely be reflected in lower vacancy rates and higher occupancy rates. It may also be reflected in higher numbers of people per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

**Table 5. Housing Market Indicators**

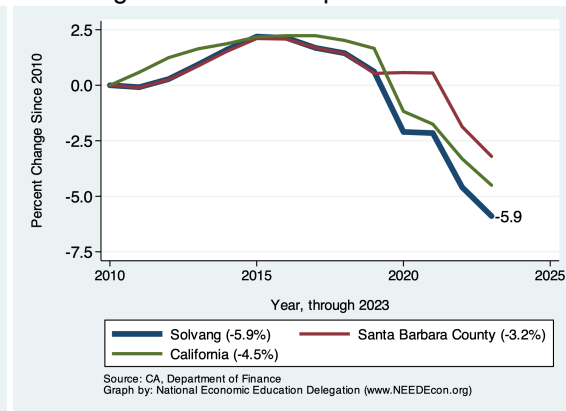
Indicator	2023	2019	2010	% Change from	
				2019	2010
Total Population	5,669.0	5,575.0	5,245.0	1.7	8.1
Total # of Homes	2,644.0	2,696.0	2,485.0	-1.9	6.4
# Occupied Units	2,495.0	2,297.0	2,173.0	8.6	14.8
Persons per Household	2.2	2.4	2.4	-6.5	-5.9
Vacancy Rate (%)	5.6	14.8	12.6	-61.9	-55.1

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

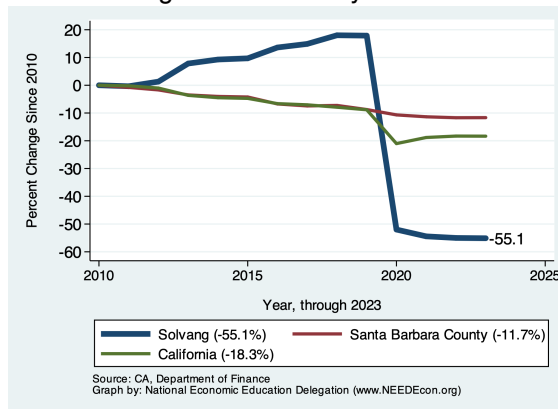
**Figure 46: Housing Growth**



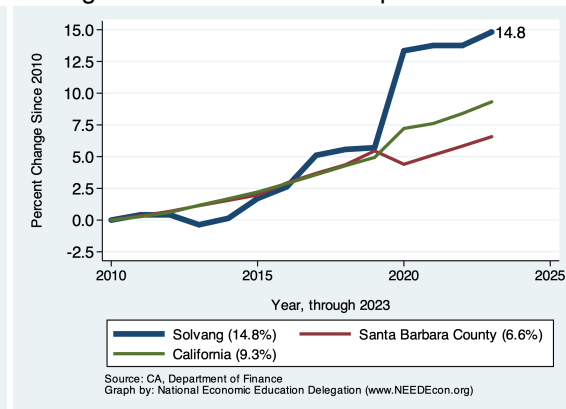
**Figure 47: Persons per Household**



**Figure 48: Vacancy Rates**



**Figure 49: Number of Occupied Units**



## Trends in the Growth of Housing by Housing Type

Figure 50: Single Detached Homes

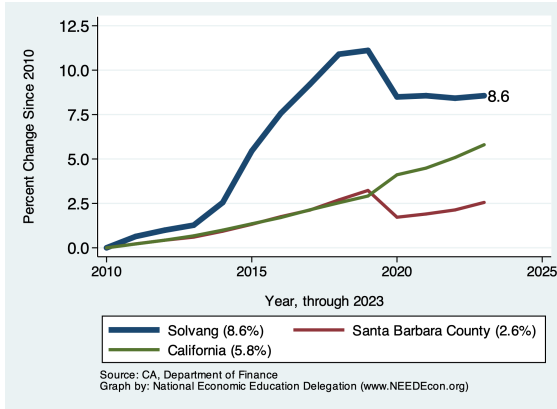


Figure 51: Single Attached Homes

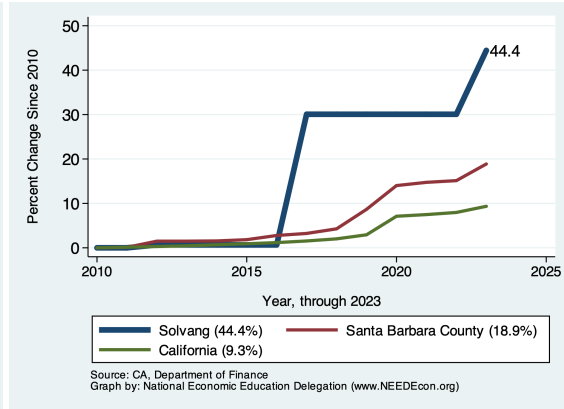


Figure 52: Housing in Buildings with Two to Four Units

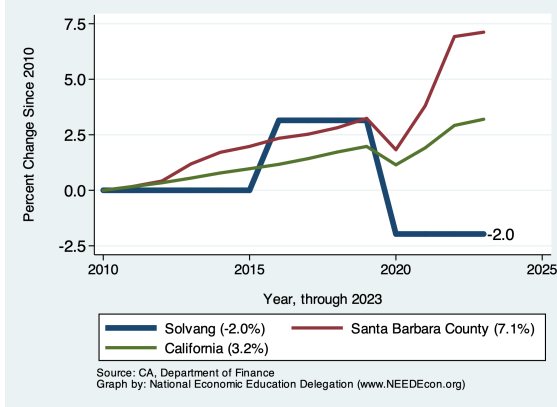
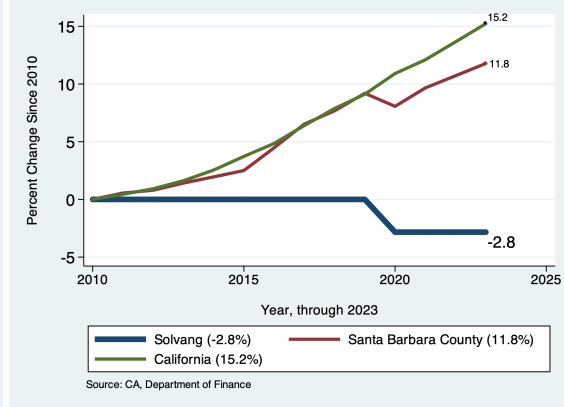


Figure 53: Housing in Buildings with Five or More Units



## Vintage of Residential Housing

### Why is it important?

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

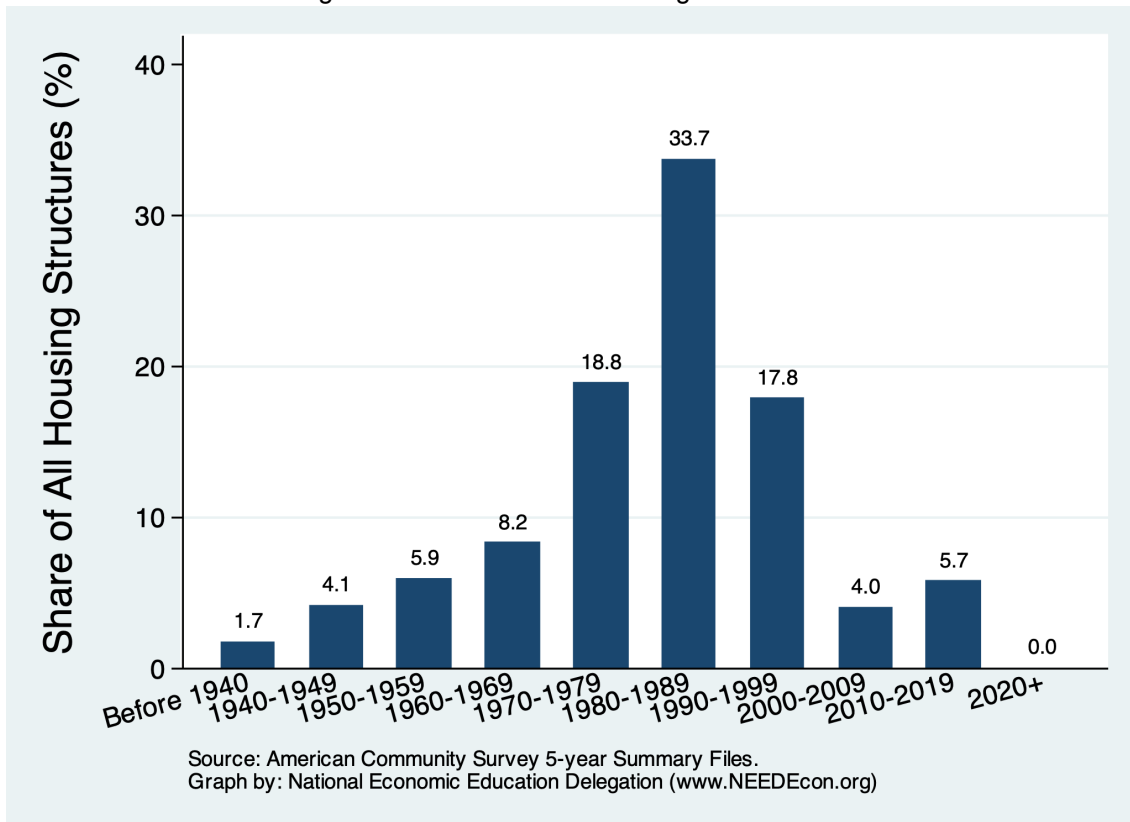


Figure 55: Housing Vintage across Regions

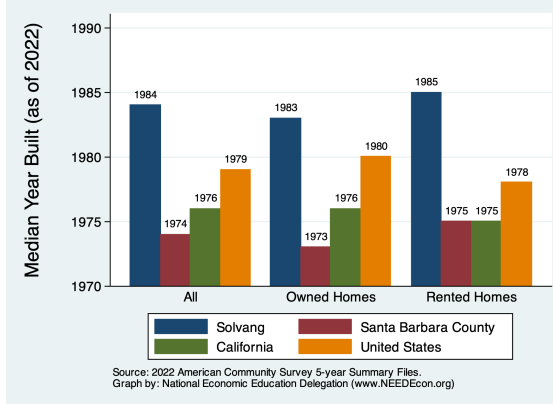


Figure 56: Housing Vintage by Tenure

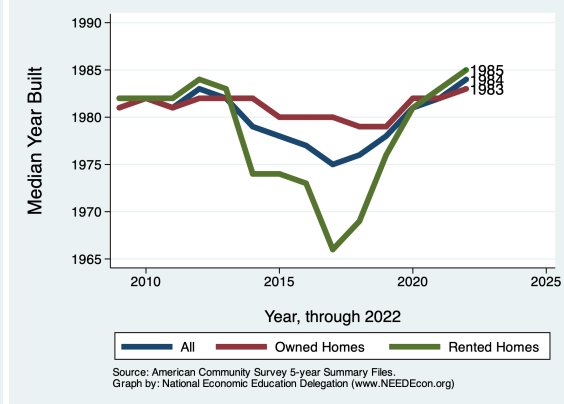


Figure 57: Vintage of Owned Residences

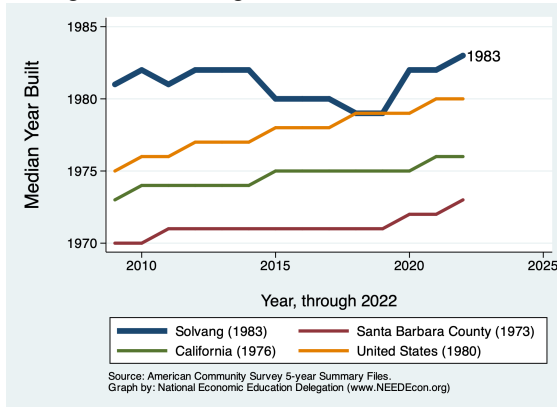


Figure 58: Vintage of Rented Residences

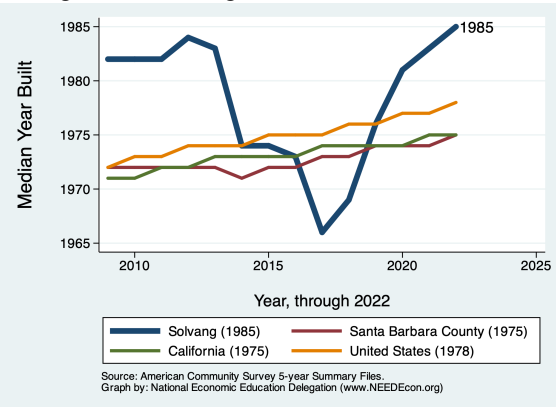
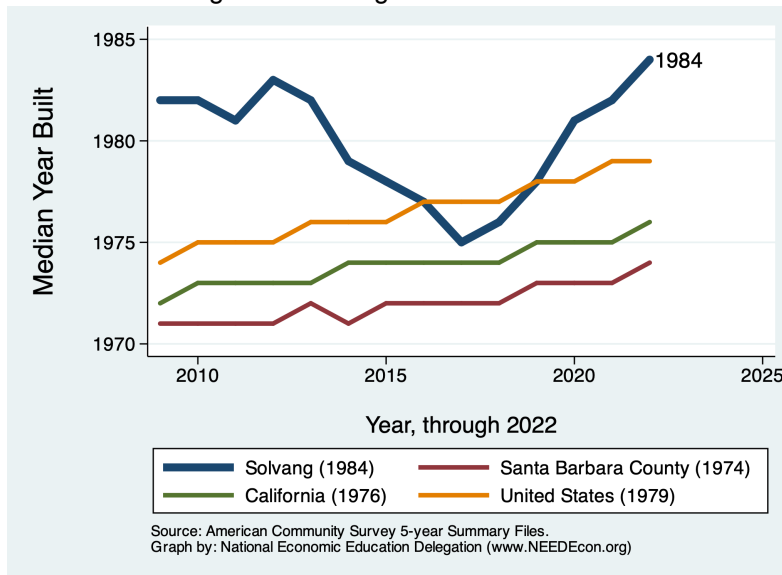


Figure 59: Vintage of All Residences



## 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

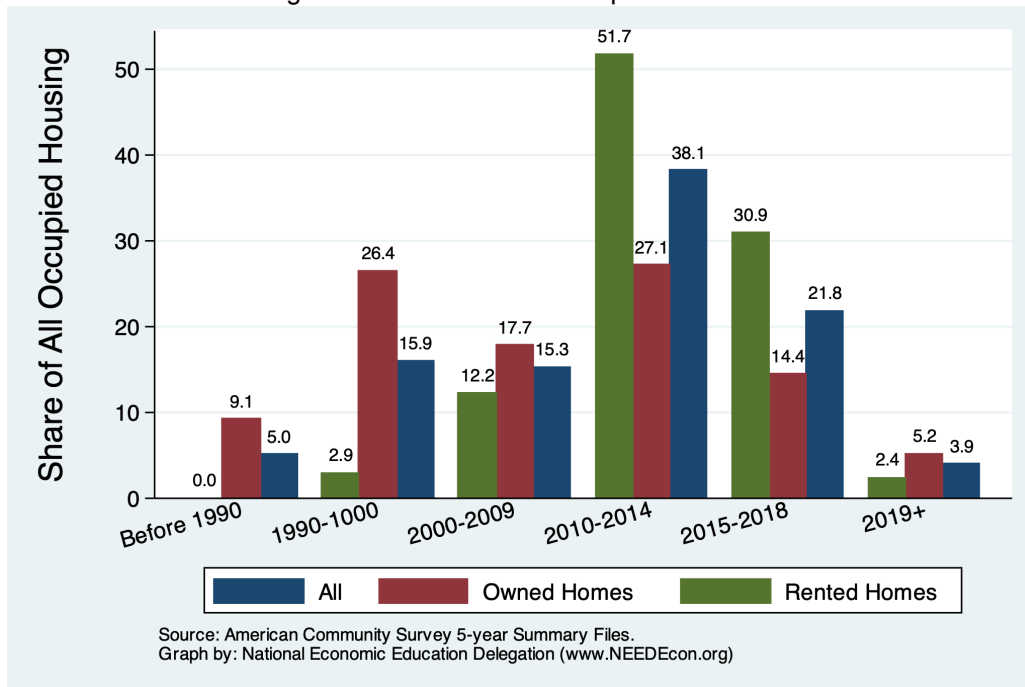


Figure 61: Year Occupied by Current Residents across Regions

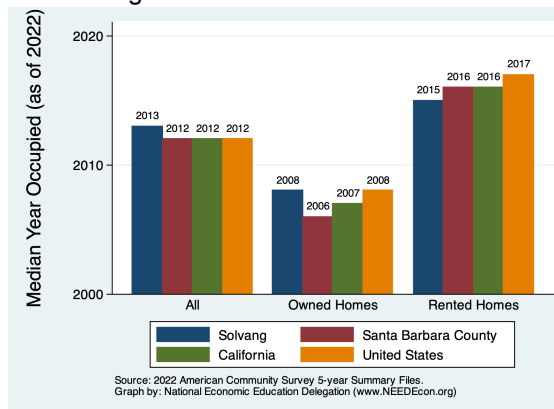


Figure 62: Year Occupied by Current Residents by Tenure

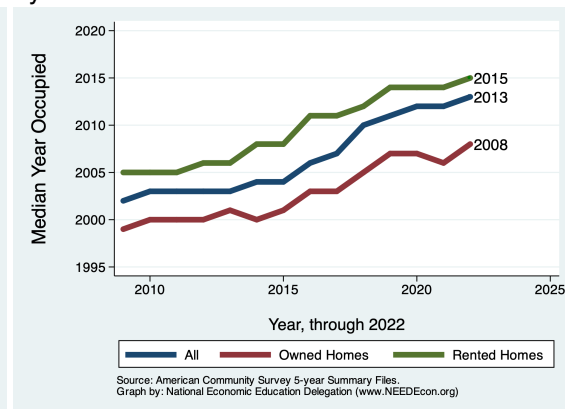


Figure 63: Year Occupied by Current Residents for Owned Housing

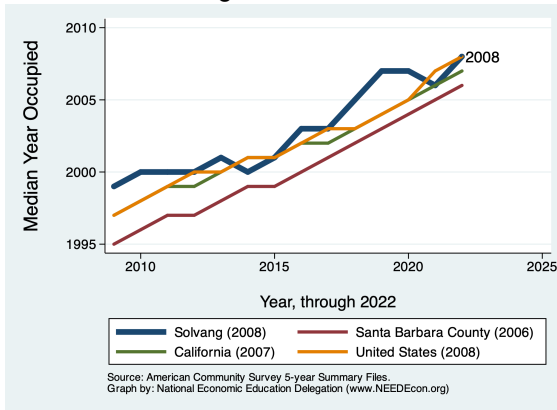


Figure 64: Year Occupied by Current Residents for Rented Housing

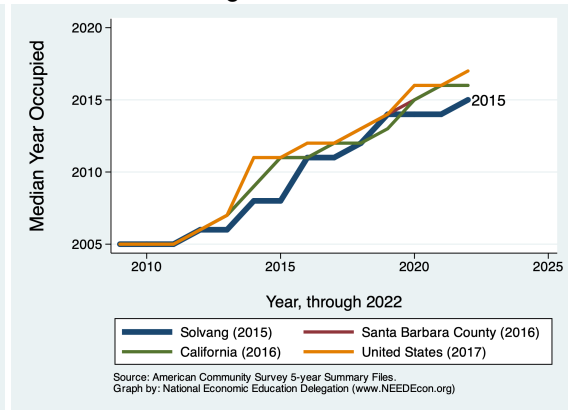
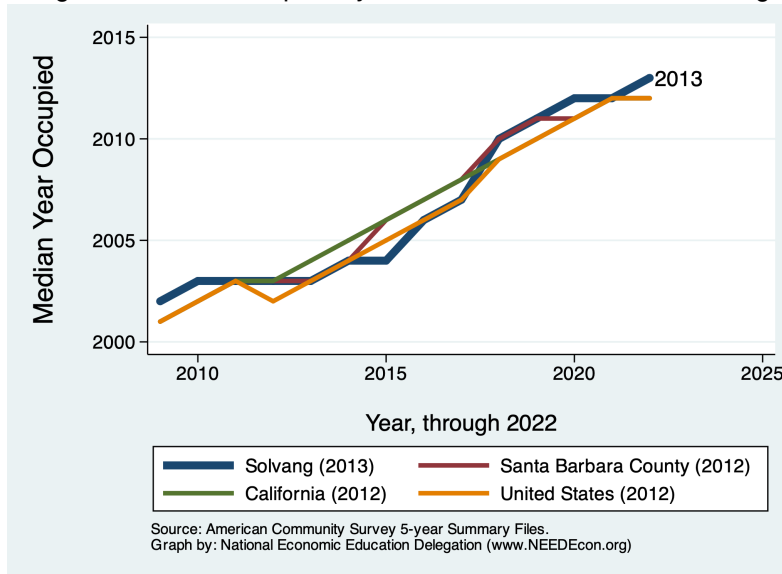


Figure 65: Year Occupied by Current Residents for All Housing



## Residential Permitting

### Definition:

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

### Solvang - Ranking Among Comparables

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

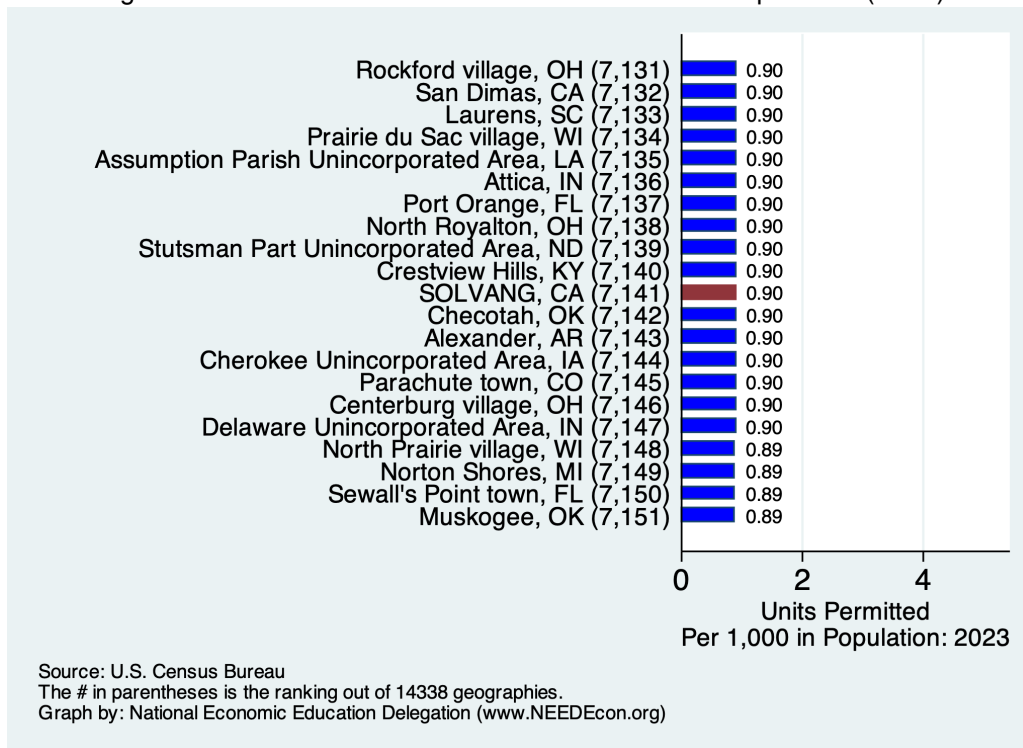
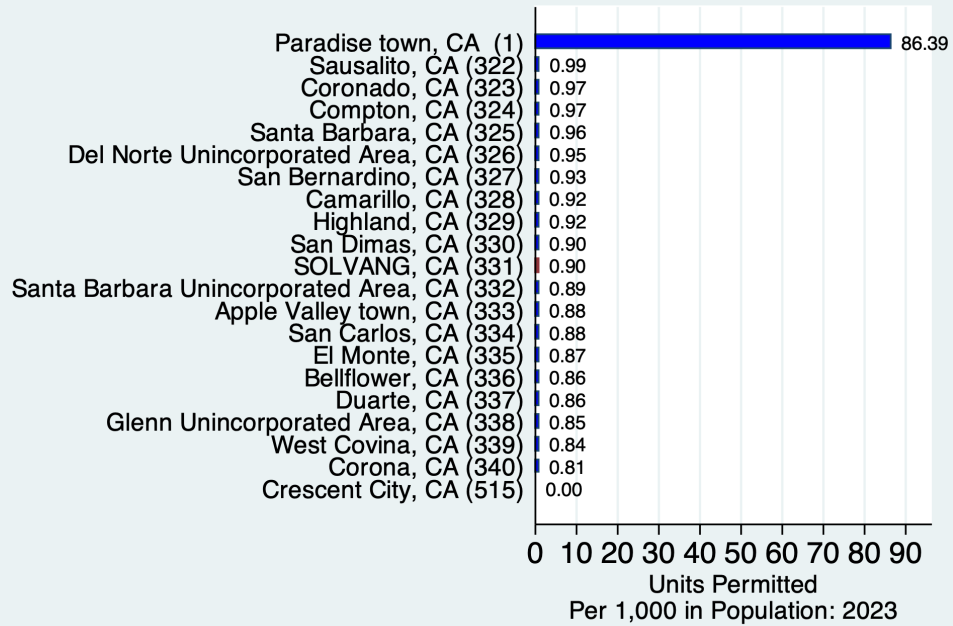


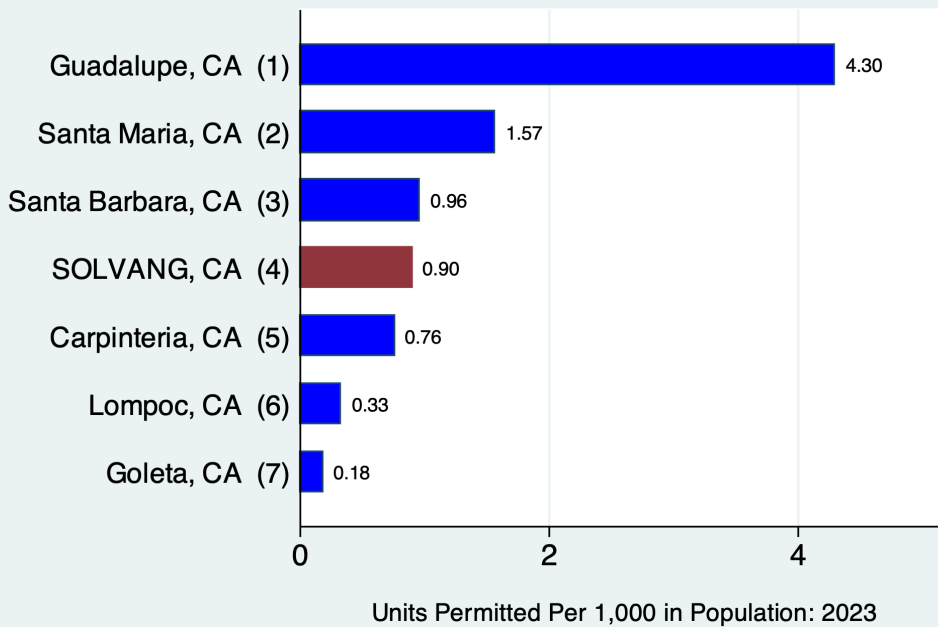


Figure 67: Number of Units Permitted - California Comparables (Rank)



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

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



Source: U.S. Census Bureau,  
 The # in parentheses is the ranking out of 7 geographies.  
 Graph by: National Economic Education Delegation ([www.NEEDecon.org](http://www.NEEDecon.org))

**Solvang - Permitting Activity**

**Annual Units Permitted - Per Capita in Solvang**

Figure 69: Units Permitted Each Year

Figure 70: Average Annual Growth in Units Permitted

N/A

N/A

**Annual Number of Buildings Permitted - Per Capita in Solvang**

Figure 71: Units Permitted Each Year

Figure 72: Average Annual Growth in Buildings Permitted

N/A

N/A

**Annual Value of Property Permitted - Per Capita in Solvang**

Figure 73: Value Permitted Each Year

Figure 74: Average Annual Growth in Value Permitted

N/A

N/A

## 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

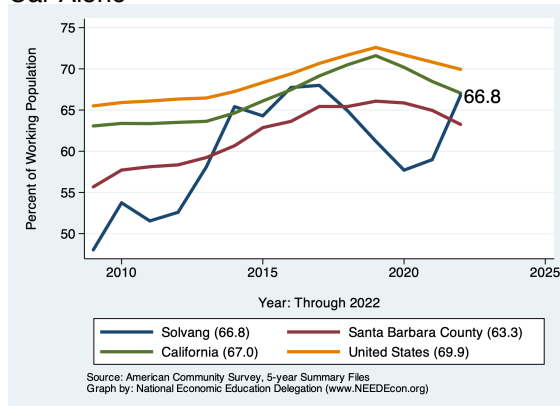


Figure 76: Percent of Workers Commuting by Carpool

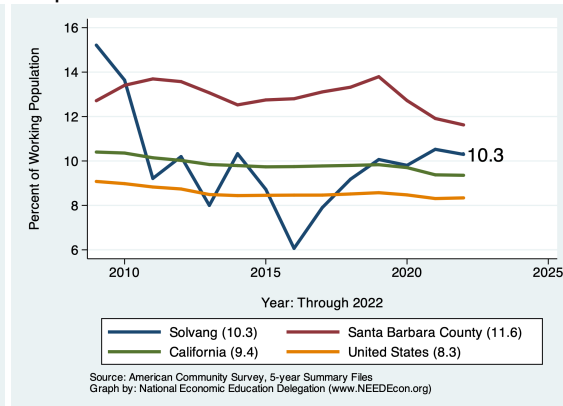


Figure 77: Percent of Workers using Public Transportation

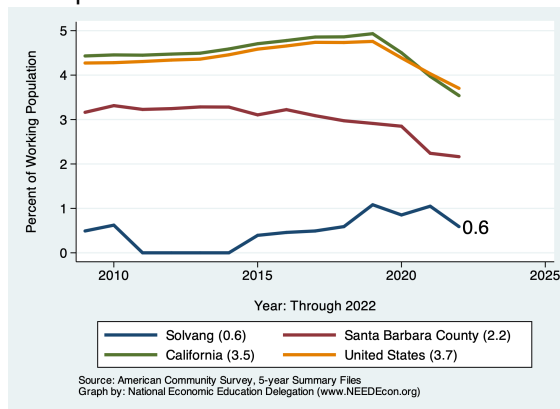
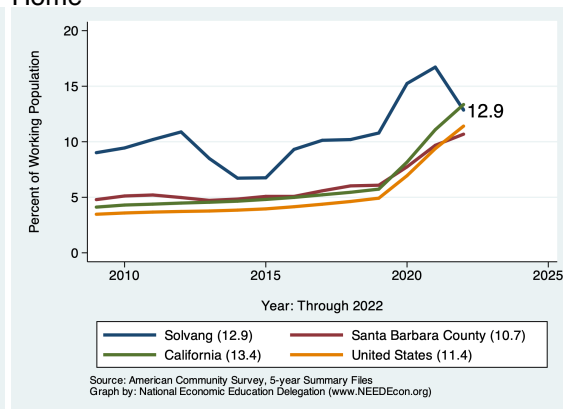


Figure 78: Percent of Workers Who Work From Home



The first table on this page presents data for those who LIVE in Solvang. The second provides data on those who work, but do not necessarily live in Solvang. 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:	1,202	77.8	1,148	73.5	2,350	77.0	78.0
Drove Alone	988	64.0	1,048	67.1	2,036	66.8	68.4
Carpooled:	214	13.9	100	6.4	314	10.3	9.5
In 2-person carpool	121	7.8	100	6.4	221	7.2	6.9
In 3-person carpool	93	6.0	0	0.0	93	3.0	1.5
In 4-or-more-person carpool	0	0.0	0	0.0	0	0.0	1.1
Public Transportation (excl Taxi):	0	0.0	18	1.2	18	0.6	3.6
Bus or Trolley Bus	0	0.0	18	1.2	18	0.6	2.3
Streetcar or Trolley Car	0	0.0	0	0.0	0	0.0	0.8
Subway or Elevated	0	0.0	0	0.0	0	0.0	0.3
Railroad	0	0.0	0	0.0	0	0.0	0.2
Ferryboat	0	0.0	0	0.0	0	0.0	0.1
Bicycle	0	0.0	46	2.9	46	1.5	0.7
Walked	46	3.0	114	7.3	160	5.2	2.4
Taxicab, Motorcycle, or other	0	0.0	0	0.0	0	0.0	1.7
Worked at Home	187	12.1	205	13.1	392	12.9	13.6
<b>Total:</b>	<b>1,435</b>	<b>92.9</b>	<b>1,531</b>	<b>98.0</b>	<b>2,966</b>	<b>97.2</b>	

Source: 2022 5-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:	965	53.2	1,234	53.1	2,199	53.2	78.0
Drove Alone	846	46.7	1,133	48.8	1,979	47.8	68.5
Carpooled:	119	6.6	101	4.3	220	5.3	9.5
In 2-person carpool	97	5.4	86	3.7	183	4.4	6.9
In 3-person carpool	22	1.2	0	0.0	22	0.5	1.5
In 4-or-more-person carpool	0	0.0	15	0.6	15	0.4	1.1
Public Transportation (excl Taxi):	0	0.0	0	0.0	0	0.0	3.6
Bus or Trolley Bus	0	0.0	0	0.0	0	0.0	2.3
Streetcar or Trolley Car	0	0.0	0	0.0	0	0.0	0.8
Subway or Elevated	0	0.0	0	0.0	0	0.0	0.3
Railroad	0	0.0	0	0.0	0	0.0	0.2
Ferryboat	0	0.0	0	0.0	0	0.0	0.1
Bicycle	0	0.0	16	0.7	16	0.4	0.7
Walked	62	3.4	143	6.2	205	5.0	2.4
Taxicab, Motorcycle, or other	11	0.6	9	0.4	20	0.5	1.7
Worked at Home	187	10.3	205	8.8	392	9.5	13.6
<b>Total:</b>	<b>1,225</b>	<b>67.6</b>	<b>1,607</b>	<b>69.2</b>	<b>2,832</b>	<b>68.5</b>	

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.

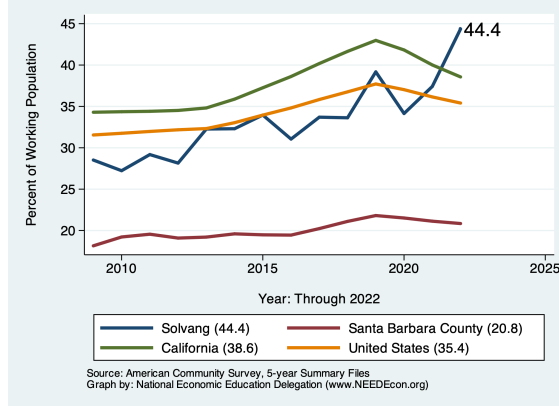
# Commute Times for Employed Residents

**Table 8. SEX OF WORKERS BY TRAVEL TIME TO WORK**

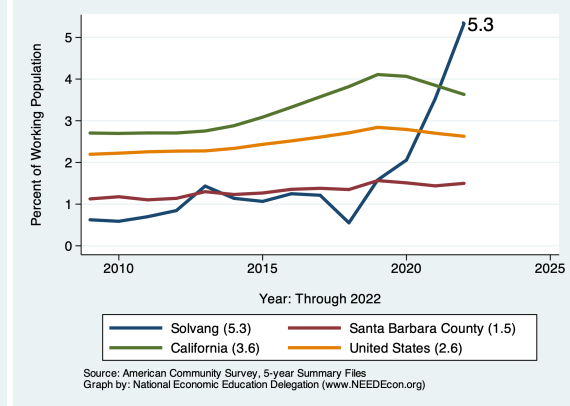
Mode of Transit	Male		Female		All Workers		All of CA
	#	(%)	#	(%)	#	(%)	(%)
Less than 5 minutes	70	5.0	68	4.8	138	5.1	2.0
5 to 9 minutes	148	10.5	265	18.6	413	15.2	7.5
10 to 14 minutes	103	7.3	214	15.0	317	11.7	12.2
15 to 19 minutes	59	4.2	144	10.1	203	7.5	15.0
20 to 24 minutes	48	3.4	185	13.0	233	8.6	14.3
25 to 29 minutes	33	2.3	30	2.1	63	2.3	6.3
30 to 34 minutes	46	3.3	128	9.0	174	6.4	15.0
35 to 39 minutes	0	0.0	22	1.5	22	0.8	2.9
40 to 44 minutes	136	9.6	87	6.1	223	8.2	4.3
45 to 59 minutes	418	29.6	74	5.2	492	18.1	8.6
60 to 89 minutes	60	4.3	91	6.4	151	5.5	7.9
90 or more minutes	127	9.0	18	1.3	145	5.3	4.0
<b>Total:</b>	<b>1,248</b>	<b>88.4</b>	<b>1,326</b>	<b>93.1</b>	<b>2,574</b>	<b>94.6</b>	

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

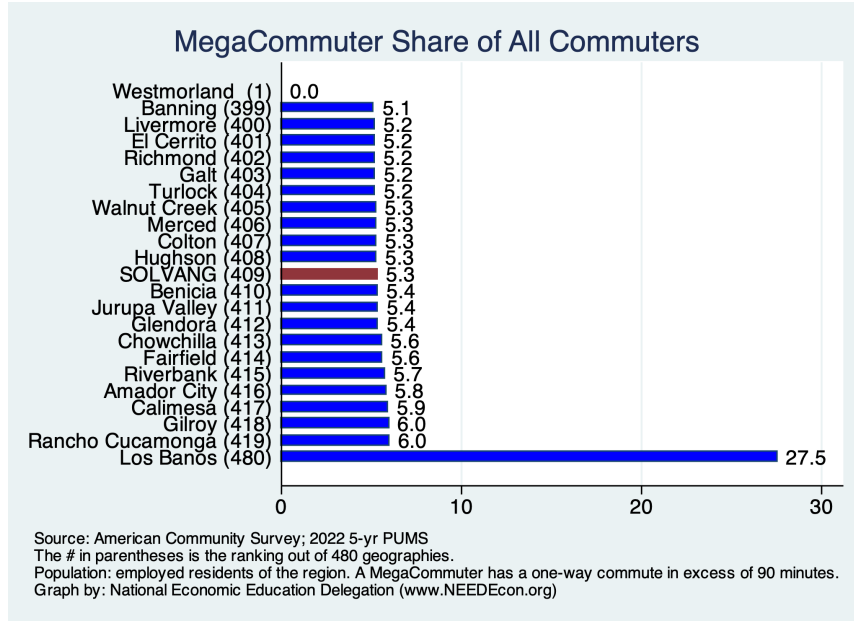
**Figure 79: Percent of Employed Population With Commutes of More than 30 Minutes**



**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	56	3.4	66	3.0	122	3.2	2.0
5 to 9 minutes	148	9.0	222	10.1	370	9.7	7.5
10 to 14 minutes	212	13.0	417	19.0	629	16.4	12.2
15 to 19 minutes	106	6.5	135	6.2	241	6.3	15.0
20 to 24 minutes	109	6.7	85	3.9	194	5.1	14.3
25 to 29 minutes	57	3.5	11	0.5	68	1.8	6.3
30 to 34 minutes	119	7.3	286	13.1	405	10.6	15.0
35 to 39 minutes	38	2.3	74	3.4	112	2.9	2.9
40 to 44 minutes	92	5.6	78	3.6	170	4.4	4.3
45 to 59 minutes	66	4.0	28	1.3	94	2.5	8.6
60 to 89 minutes	8	0.5	0	0.0	8	0.2	7.9
90 or more minutes	27	1.7	0	0.0	27	0.7	4.0
<b>Total:</b>	<b>1,038</b>	<b>63.4</b>	<b>1,402</b>	<b>64.0</b>	<b>2,440</b>	<b>63.8</b>	

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.

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

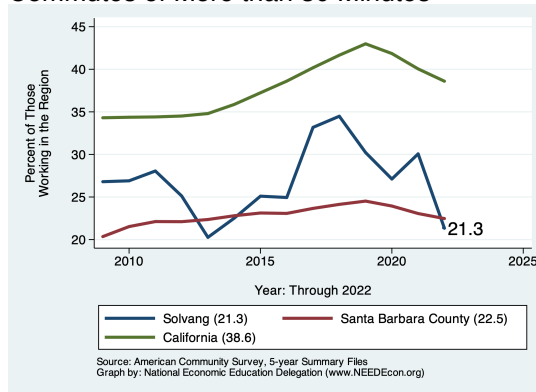


Figure 83: Percent of Local Employees With Commutes of More than 90 Minutes

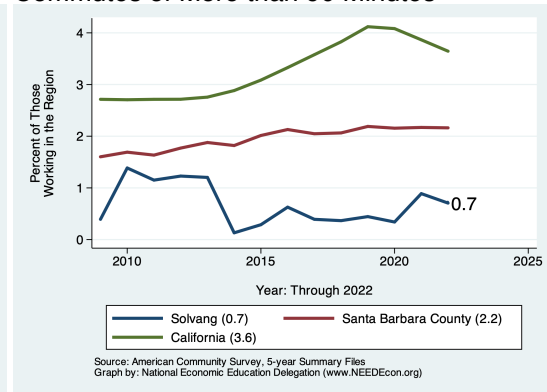
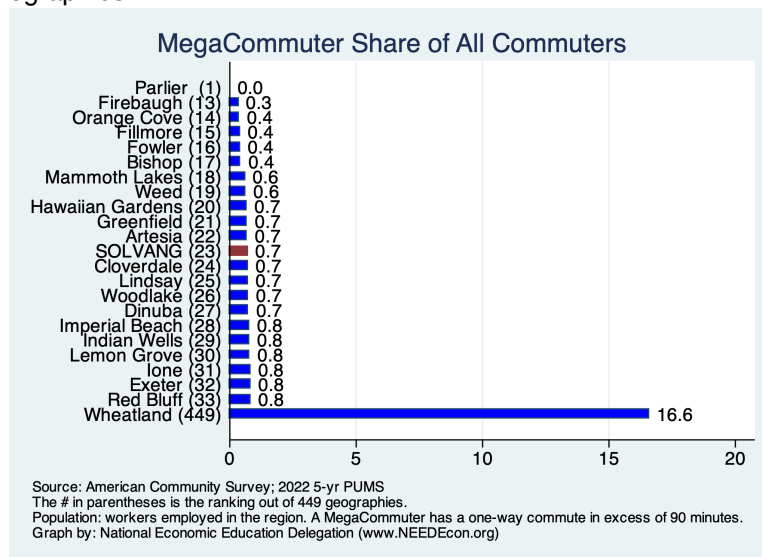


Figure 84: Rank: Share of MegaCommuters Across Similar Geographies



## Place of Work

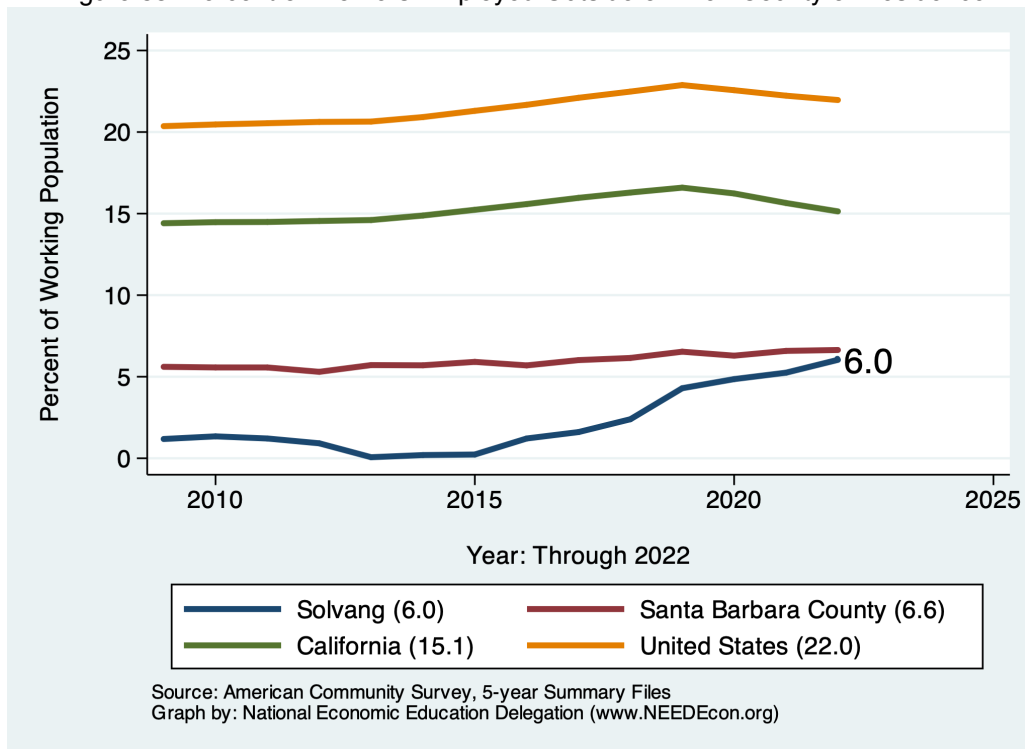
This section provides evidence on where workers living in Solvang work. As evidenced in the first table, some of Solvang’s employed workers work in the City, but many do not. The first table and graph pair provide evidence at the county level while the second provide evidence with regard to working outside of the Solvang 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:	1,435	92.9	1,531	98.0	2,966	97.2	99.6
Worked in county of residence	1,293	83.7	1,489	95.3	2,782	91.2	84.1
worked outside of county of residence	142	9.2	42	2.7	184	6.0	15.4
Worked outside state of residence	0	0.0	0	0.0	0	0.0	0.4
<b>Total:</b>	1,435	92.9	1,531	98.0	2,966	97.2	

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

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

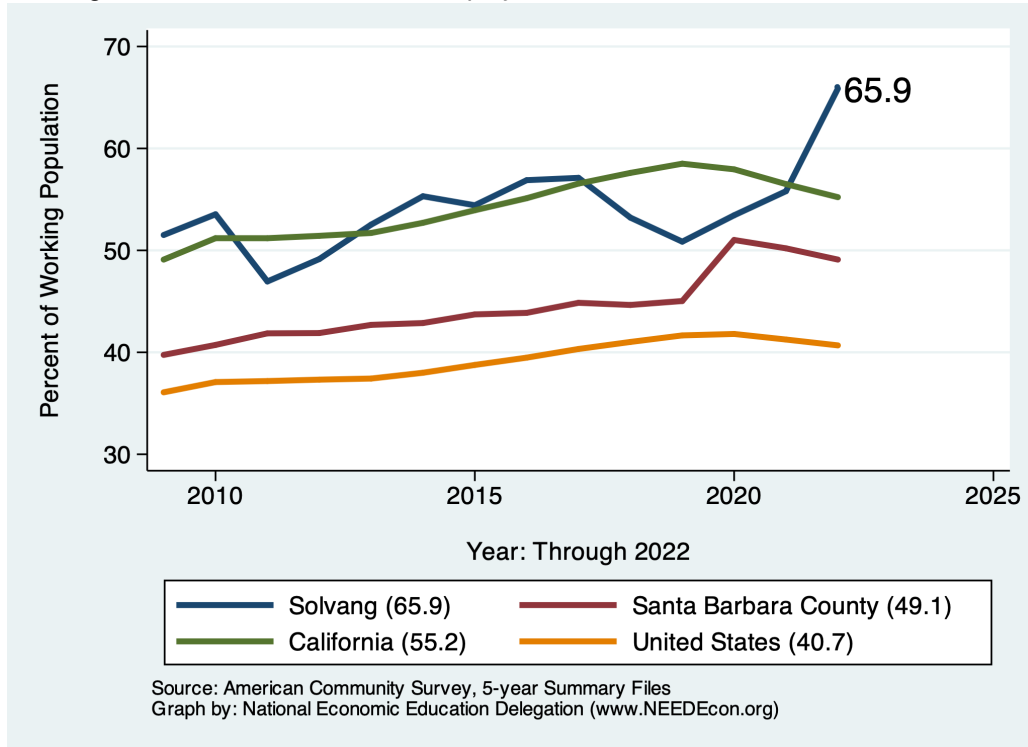


**Table 11. SEX OF WORKERS BY PLACE OF WORK-PLACE LEVEL**

Place of Work	Male		Female		All Workers		All of CA (%)
	#	(%)	#	(%)	#	(%)	
Living in a place:	1,435	92.9	1,531	98.0	2,966	97.2	95.9
Worked in place of residence	410	26.6	547	35.0	957	31.4	39.5
Worked outside place of residence	1,025	66.4	984	63.0	2,009	65.9	56.4
Not living in a place	0	0.0	0	0.0	0	0.0	4.1
<b>Total:</b>	1,435	92.9	1,531	98.0	2,966	97.2	

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

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





## Commute Mode by Income

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

	City	California	Ratio	United States	
	Median	Median		Median	Ratio
Car, truck, or van - drove alone	56,993	48,566	109.2	46,171	108.6
Car, truck, or van - carpooled	50,455	36,463	128.7	34,487	128.7
Public transportation (excluding taxicab)		40,179		45,100	
Walked	24,211	29,366	76.7	27,142	78.5
Taxicab, motorcycle, bicycle, or other means		40,433		36,140	
Worked from home	49,000	75,153	60.6	67,180	64.2
<b>Total:</b>	52,407	48,747	107.5	46,099	113.7

Source: 2022 5-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	482	44.5	642	67.2	789	72.0	2,036	66.8
Car, Truck, or Van: Carpooled	59	5.5	121	12.7	94	8.6	314	10.3
Public Transportation (excl Taxi)	0	0.0	18	1.9	0	0.0	18	0.6
Walked	86	7.9	25	2.6	40	3.6	160	5.2
Taxicab, Motorcycle, or other	2	0.2	0	0.0	44	4.0	46	1.5
Worked at Home	71	6.6	150	15.7	129	11.8	392	12.9
<b>Total:</b>	700	64.7	956		1,096		2,966	97.2

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	732	43.4	598	45.2	329	56.5	1,979	47.8
Car, Truck, or Van: Carpooled	64	3.8	70	5.3	17	2.9	220	5.3
Public Transportation (excl Taxi)	0	0.0	0	0.0	0	0.0	0	0.0
Walked	115	6.8	25	1.9	40	6.9	205	5.0
Taxicab, Motorcycle, or other	25	1.5	11	0.8	0	0.0	36	0.9
Worked at Home	71	4.2	150	11.3	129	22.2	392	9.5
<b>Total:</b>	1,007	59.7	854	64.5	515	88.5	2,832	68.5

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	48	14.6	0	0.0	1,988	69.8	2,036	66.8	68.7
Car, Truck, or Van: Carpooled	0	0.0	0	0.0	314	11.0	314	10.3	9.5
Public Transportation (excl Taxi)	0	0.0	0	0.0	18	0.6	18	0.6	3.6
Walked	15	4.6	13	3.0	132	4.6	160	5.2	2.1
Taxicab, Motorcycle, or other	2	0.6	0	0.0	44	1.5	46	1.5	2.4
Worked at Home	39	11.9	0	0.0	353	12.4	392	12.9	13.6
<b>Total:</b>	104	31.6	13	3.0	2,849		2,966	97.2	

Source: 2022 5-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	47	21.0	82	19.9	1,850	50.4	1,979	47.8	68.7
Car, Truck, or Van: Carpooled	0	0.0	0	0.0	220	6.0	220	5.3	9.5
Public Transportation (excl Taxi)	0	0.0	0	0.0	0	0.0	0	0.0	3.6
Walked	44	19.6	13	3.1	148	4.0	205	5.0	2.1
Taxicab, Motorcycle, or other	16	7.1	0	0.0	20	0.5	36	0.9	2.4
Worked at Home	39	17.4	0	0.0	353	9.6	392	9.5	13.6
<b>Total:</b>	146	65.2	95	23.0	2,591	70.7	2,832	68.5	

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.

# 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 Solvang 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

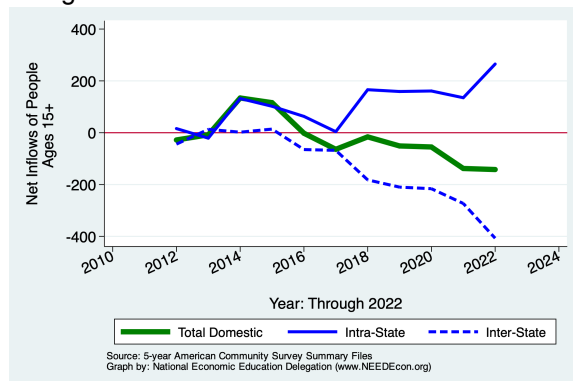


Table 17: Migration by Income

Category	Population	Net Inflows				
		All Migration	Same State			From Abroad
			W/in County	Between Counties	Across States	
No income	446	-31	50	-16	-65	0
With income	4,790	-84	182	49	-342	27
\$1 to \$9,999 or less	498	-20	15	-14	-21	0
\$10,000 to \$14,999	331	35	2	21	12	0
\$15,000 to \$24,999	639	7	37	30	-60	0
\$25,000 to \$34,999	430	-143	-43	11	-111	0
\$35,000 to \$49,999	413	64	77	0	-13	0
\$50,000 to \$64,999	509	-20	26	-5	-41	0
\$65,000 to \$74,999	169	-45	-45	0	0	0
\$75,000 or more	1,801	38	113	6	-108	27
<b>All:</b>	5,236	-115	232	33	-407	27

Source: 2022 5-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

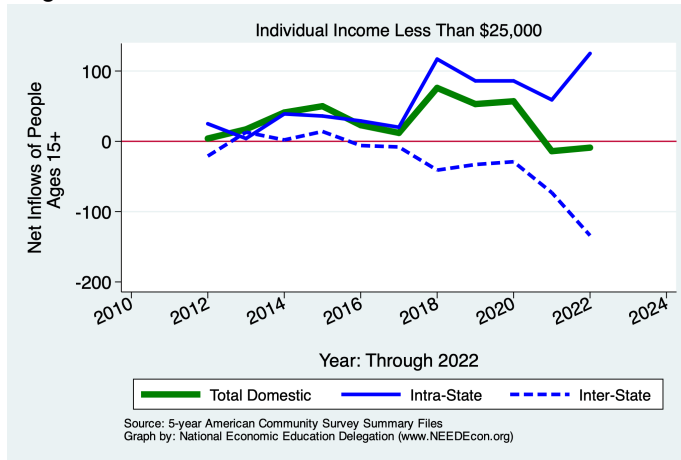


Figure 89: Overall Movements of Middle Income Residents

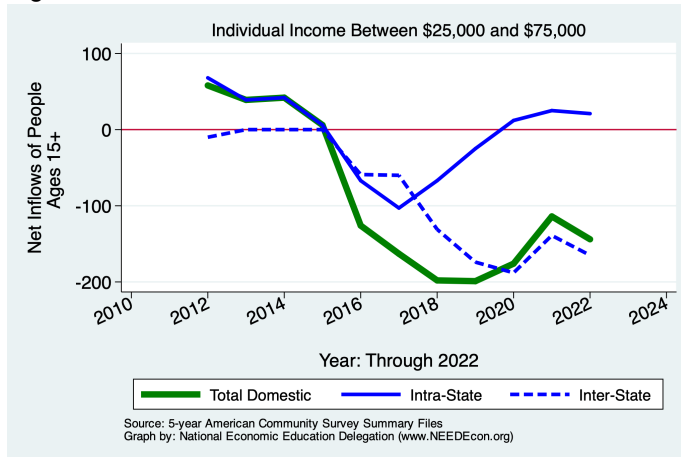
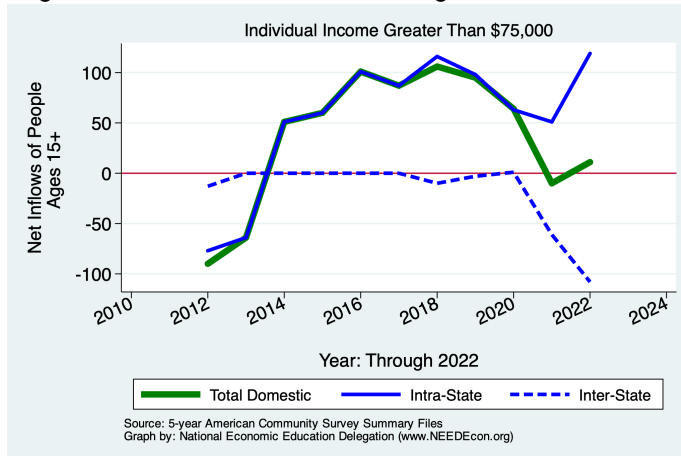


Figure 90: Overall Movements of High Income Residents



## Demographics of Migration Flows

**Table 18: Migration by Marital Status**

Category	Population	Net Inflows					From Abroad
		All Migration	Same State			Across States	
			W/in County	Between Counties	W/in County		
Never married	1,463	-134	-13	20	-141	0	
Now married, except separated	2,581	62	238	-37	-166	27	
Divorced	784	-103	-43	21	-81	0	
Separated	55	19	0	0	19	0	
Widowed	353	41	50	29	-38	0	
<b>Total:</b>	5,236	-115	232	33	-407	27	

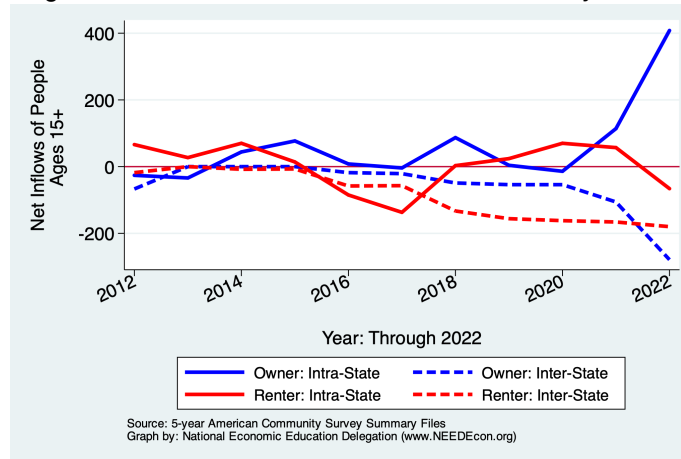
Source: 2022 5-year American Community Survey, Summary File

**Table 19: Migration by Tenure**

Category	Population	Net Inflows					From Abroad
		All Migration	Same State			Across States	
			W/in County	Between Counties	W/in County		
Householder lived in owner-occupied housing units	3,453	156	351	57	-279	27	
Householder lived in renter-occupied housing units	2,438	-246	-55	-11	-180	0	
<b>Total:</b>	5,891	-90	296	46	-459	27	

Source: 2022 5-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	46	-56	-24	0	-32	0
5 to 17 years	894	47	103	0	-56	0
18 and 19 years	144	2	2	0	0	0
20 to 24 years	309	-26	-26	3	-3	0
25 to 29 years	347	-22	60	-8	-74	0
30 to 34 years	195	1	21	-20	0	0
35 to 39 years	251	20	50	0	-30	0
40 to 44 years	329	-83	0	0	-83	0
45 to 49 years	402	-5	25	0	-30	0
50 to 54 years	359	-33	37	14	-84	0
55 to 59 years	393	-5	-28	21	2	0
60 to 64 years	466	-22	-21	-3	2	0
65 to 69 years	411	70	38	-3	8	27
70 to 74 years	625	-32	-20	0	-12	0
75 years and over	789	55	94	29	-68	0
<b>Total Population:</b>	5,960	-89	311	33	-460	27

Source: 2022 5-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	332	-13	-13	0	0	0
High school graduate (includes equiv)	842	107	109	0	-29	27
Some college or assoc. degree	1,708	-56	56	41	-153	0
Bachelor's degree	1,129	-45	92	-8	-129	0
Graduate or professional degree	556	-49	12	-3	-58	0
<b>Total:</b>	4,567	-56	256	30	-369	27

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

**Table 22: Median Income of Migration Flows**

Flow	In-Migration	Out-Migration
Same House 1 Year Ago	51,611	51,611
Moved Within Same County	49,096	45,430
<b>Total Population:</b>	50,938	50,814

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

**Table 23: Median Age of Migration Flows**

Flow	In-Migration	Out-Migration
Same House 1 Year Ago	53.9	53.9
Moved Within Same County	39.1	31.7
Moved to Different County, Same State	53.7	29.4
Moved Between States	65.1	44.1
<b>Total Population:</b>	51.2	49.9

Source: 2022 5-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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