# Saratoga, California

# Indicators Report

by
The National Economic Education Delegation (NEED)

April 21, 2024

Exploring the economics, demographics, and well-being of Saratoga 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 Saratoga (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 Saratoga. These indicators are compared to Santa Clara 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 Saratoga 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 Saratoga 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 Saratoga, 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 Saratoga, but do
  not necessarily live in Saratoga.
- **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 compositon.

#### Why is it important?

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

## A Demographic Snapshot

Statistic	2022	2019
POPULATION		
Population Estimate (#, 5yr)	30,771.0	30,697.0
Veterans (#, 5yr)	993.0	1,171.0
Foreign born persons (%, 5yr)	43.9	40.1
Population age 25+ (#, 5yr)	23,169.0	23,020.0
AGE AND SEX		
Persons under 5 years (%, 5yr)	2.1	2.4
Persons under 18 years (%, 5yr)	19.5	20.6
Persons 65 years and over (%, 5yr)	24.9	23.1
Female persons (%, 5yr)	50.4	50.4
INCOME AND POVERTY		
Median household income (\$, 5yr)	237,730.0	191,677.0
Per capita income in past 12 months (\$, 5yr)	116,925.0	93,627.0
Persons in poverty (%, 5yr)	3.1	4.7
Children age less than 18 in poverty (#, 5yr)	125.0	270.0
Children age less than 18 in poverty (%, 5yr)	2.1	4.3
RACE AND ETHNICITY	00.0	47.5
White alone (%, 5yr)	39.0	47.5
African American alone (%, 5yr)	0.1	0.5
American Indian or Alaska Native alone (%, 5yr)	0.3	0.4
Asian alone (%, 5yr)	55.5	47.7
Native Hawaiian and Other Pacific Islander alone (%, 5yr)	0.0 4.7	0.0 3.6
Two or More Races (%, 5yr)	4.7 2.4	3.6 2.9
Hispanic or Latino (%, 5yr) White alone, not Hispanic or Latino (%, 5yr)	37.8	2.9 44.8
HOUSING	37.0	44.0
Housing units (#, 5yr)	11,473.0	11,451.0
Owner-occupied housing units (%, 5yr)	87.1	84.6
Median value of owner-occupied housing units (\$, 5yr)	2,000,001.0	2,000,001.0
Median selected monthly owner costs-with a mortgage (\$, 5yr)	4,001.0	4,001.0
Median selected monthly owner costs-without a mortgage (\$, 5yr)	1,479.0	1,240.0
Median gross rent (\$, 5yr)	3,501.0	3,091.0
FAMILIES AND LIVING ARRANGEMENTS	0,001.0	0,001.0
Households (#, 5yr)	10,798.0	11,013.0
Persons per household (#, 5yr)	2.8	2.8
Living in same house 1 year ago, % of persons age 1+ (5yr)	91.2	92.1
EDUCATION		
High school graduate or higher, % of persons age 25+ (5yr)	97.1	97.6
Bachelor's degree or higher, % of persons age 25+ (5yr)	79.9	77.5
HEALTH		
With a disability, under age 65 years (#, 5yr)	593.0	763.0
Persons without health insurance, under age 65 years (%, 5yr)	0.4	0.7
LABOR FORCE		
In civilian labor force, persons age 16+ (%, 5yr)	55.6	54.7
In civilian labor force, women age 16+ (%, 5yr)	50.3	45.6
Employed, persons age 16+ (%, 5yr)	51.0	50.5
Self employed (%, 5yr) TRANSPORTATION	11.3	17.3
Mean travel time to work, workers age 16+ (Mins., 5yr)	19.9	28.4
Drive alone in private vehicle (%, 5yr)	62.4	82.8
Using public transportation (%, 5yr)	1.7	2.1
Worked from home (%, 5yr)	33.0	10.5

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 Change by Region

(Thousands, January to January)

	2023		% Cha	inge
Region	Population	1 Year	3 Year	5 Year
	C	ity		
Saratoga	30,567	-0.62	-0.92	-2.64
	County and B	roader Re	gions	
Santa Clara County	1,886,079	-0.26	-3.04	-3.17
Bay Area	7,548,792	-0.45	-2.58	-2.62
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)

				% Change	9
City	2022	2023	Local	Bay Area	California
Santa Clara County	1,891.0	1,886.1	-0.26	-0.45	-0.35
San Jose	963.7	959.3	-0.47		
Sunnyvale	156.4	156.3	-0.03		
Santa Clara	130.5	132.5	1.54		
Mountain View	83.9	83.6	-0.30		
Milpitas	80.9	81.1	0.25		
Palo Alto	67.7	67.3	-0.60		
Gilroy	59.7	60.1	0.62		
Cupertino	59.7	59.2	-0.87		
Morgan Hill	46.2	45.9	-0.67		
Campbell	43.1	42.7	-0.88		
Los Gatos	33.2	33.1	-0.20		
Los Altos	31.3	31.0	-0.76		
Saratoga	30.8	30.6	-0.62		
Los Altos Hills	8.4	8.4	-0.40		
Monte Sereno	3.5	3.5	1.09		

Source: CA DOF; Calculations by National Economic Education Delegation

Figure 1: Population Growth (1)

10

10

2.1

2.1

2.1

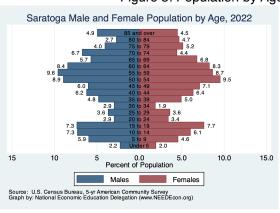
2.1

2.1

Saratoga (2.1%)
California (4.6%)
Source: CA, Department of Finance Graph by: National Economic Education Delegation (www.NEEDEcon.org)

Figure 2: Population Growth (2) (Over 1, 5 and 32 years, through 2023) Annual Growth Rate (%), to 2023 1.5 1.0 0.80 0.5 0.0 -0.5 Ave. 32 Years 1 Year 5 Years Saratoga Santa Clara County California Source: U.S. Bureau of Economic Analysis Graph by: National Economic Education Delegation (www.NEEDEcon.org)

Figure 3: Population by Age - Detailed Age Categories



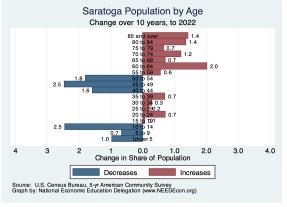
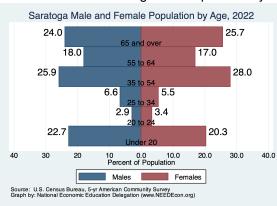
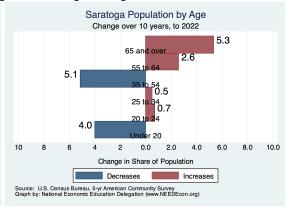


Figure 4: Population by Age - Broad Age Categories





Male and Female Educational Attainment, 2022
Saratoga

54

Male and Female Educational Attainment, 2022
Saratoga

38

Professional school degree

Bath elov Segree

Some college of Associate segree

Some college, segree

Some college, segree

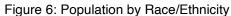
High school graduation fictures equivalency)
12th grade hid optoma
11th j hade
10th j hade
10th j hade
(6%) High school graduate (includes equivalency)

Source: U.S. Census Bureau, 5-yr American Community Survey The number in parenthesis is the share of the total population.

4

Males Females

Figure 5: Population by Educational Attainment



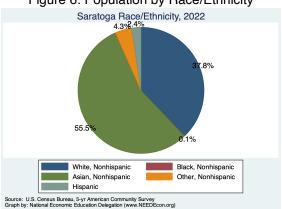
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30

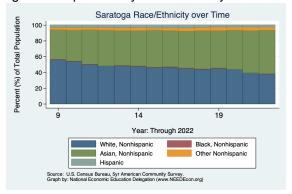
20 10 U 10 20 Percent of Population 25 Years and Older

Males

Source: U.S. Census Bureau, 5-yr American Community Survey







# **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?

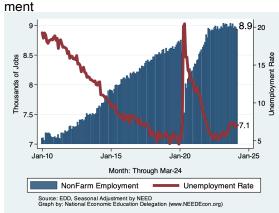
Employment growth is a fundamental indicator of the health of an economy.

Table 3. Saratoga 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



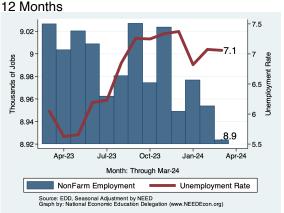
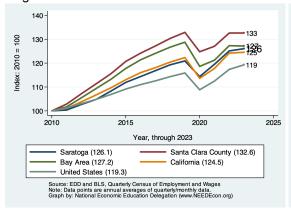
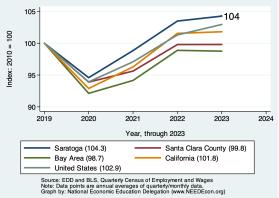


Figure 10: Relative Employment Growth Across Figure 11: Relative Employment Growth Across Regions - since 2010 Regions - since 2019





## 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 Clara County. The following table provides the latest data for the County.

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

			Empl	% Growth - Annualized Rate					
Industry	Employment	Share	Growth	Month	Qtr	6mo	1yr	3yr	5yr
Total Nonfarm	1, 160, 919	100.0	3,973.9	4.2	1.6	1.5	0.2	3.0	0.5
Goods Producing	228,703	19.7	278.5	1.5	-4.9	-2.6	-2.1	2.6	0.7
Mining and Logging	200	0.0	0.0	0.0	0.0	0.0	100.0	33.3	0.0
Construction	53,354	4.6	517.3	12.4	-7.2	-4.8	-2.0	2.0	1.0
Manufacturing	174,825	15.1	-383.1	-2.6	-4.9	-2.1	-2.1	2.6	0.5
Durable Goods	167,204	14.4	-401.3	-2.8	-5.0	-2.3	-2.5	2.7	1.0
Non-Durable Goods	7,374	0.6	11.1	1.8	-2.3	0.9	4.3	1.3	-6.7
Service Providing	933,606	80.4	4,375.2	5.8	3.2	2.5	0.7	3.2	0.5
Trade, Trans & Utilities	118,031	10.2	204.7	2.1	-0.6	-1.4	-1.2	0.3	-1.8
Wholesale Trade	27,780	2.4	-2.5	-0.1	-2.6	-4.7	-3.5	-0.1	-2.4
Retail Trade	72,175	6.2	106.5	1.8	0.2	-0.1	0.1	-0.4	-2.6
Information	96,423	8.3	225.9	2.9	-10.1	-7.7	-7.4	-2.9	-0.1
Financial Activities	37,808	3.3	5.0	0.2	0.1	-1.0	-0.8	-0.2	0.6
Finance & Insurance	21,366	1.8	35.0	2.0	-0.0	-3.1	-1.8	-2.7	-0.2
Real Estate & Rental & Leasing	16,408	1.4	-34.9	-2.5	0.5	2.6	0.6	3.6	1.6
Professional & Business Srvcs	250,804	21.6	2,129.1	10.8	5.5	4.3	-0.2	1.4	0.9
Prof, Sci, & Tech	169,093	14.6	753.2	5.5	0.5	1.7	-1.9	0.8	0.8
Educational & Health Srvcs	204,231	17.6	1,015.2	6.2	6.9	6.3	6.1	6.0	3.2
Education Srvcs	50,684	4.4	58.2	1.4	3.6	3.6	4.0	6.5	0.7
Health Care & Social Assistance	152,533	13.1	1,088.1	9.0	6.5	7.8	6.9	5.5	3.8
Leisure & Hospitality	102,403	8.8	572.1	7.0	4.6	3.8	1.8	17.3	-0.4
Other Srvcs	24,284	2.1	261.2	13.9	-10.1	-3.0	-1.2	4.9	-3.1
Government	97,358	8.4	697.2	9.0	6.8	4.5	3.6	3.4	0.5
Federal	9,920	0.9	13.7	1.7	1.2	-0.5	-0.1	-1.3	0.4
State	6,856	0.6	25.0	4.5	6.8	1.4	1.3	2.3	0.5
Local	80,812	7.0	630.7	9.9	7.8	5.2	4.2	4.2	0.5

Source: EDD, National Economic Education Delegation (NEED)

#### Some Employee Detail

#### **Employed in Saratoga**

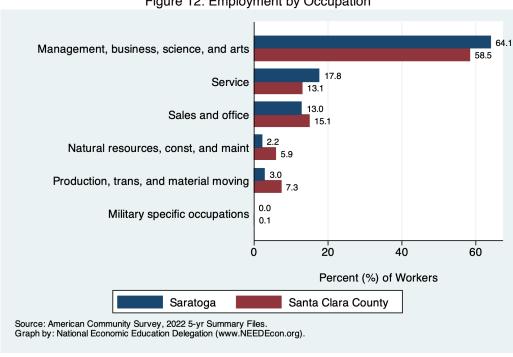
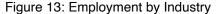
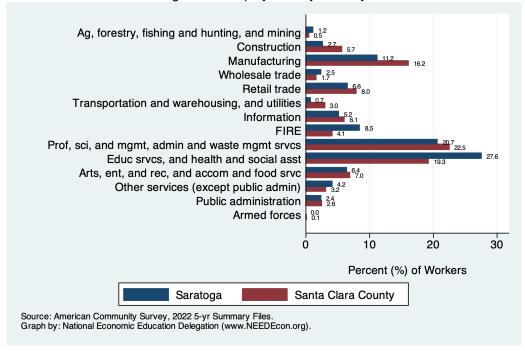


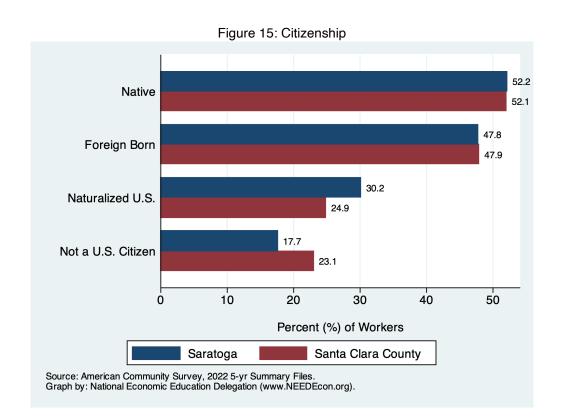
Figure 12: Employment by Occupation





44.9 Speak only English Speak Spanish (SS) SS - English very well 5.2 SS - English less than very well 6.9 43.3 Speak other languages (SOL) 31.7 SOL - English very well 25.7 11.7 SOL - English less than very well 11.0 10 20 30 40 50 Percent (%) of Workers Saratoga Santa Clara County Source: American Community Survey, 2022 5-yr Summary Files. Graph by: National Economic Education Delegation (www.NEEDEcon.org).

Figure 14: Language Spoken at Home



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#### **Employed Residents of Saratoga**

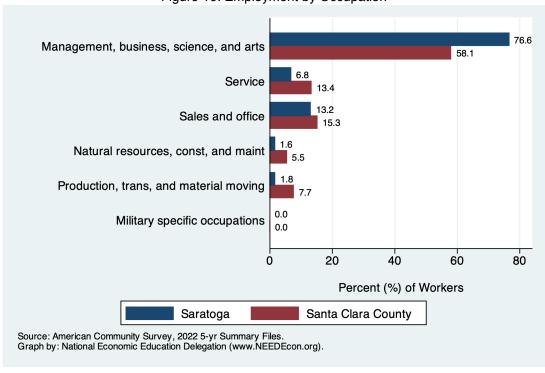
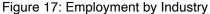
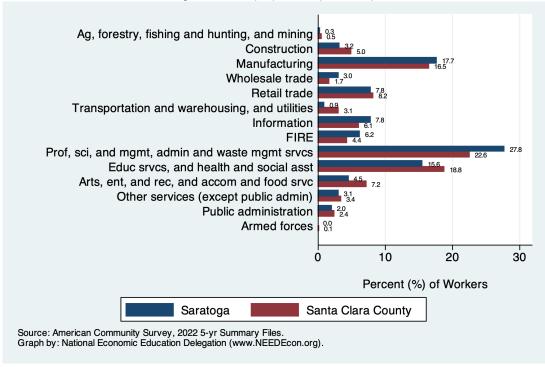


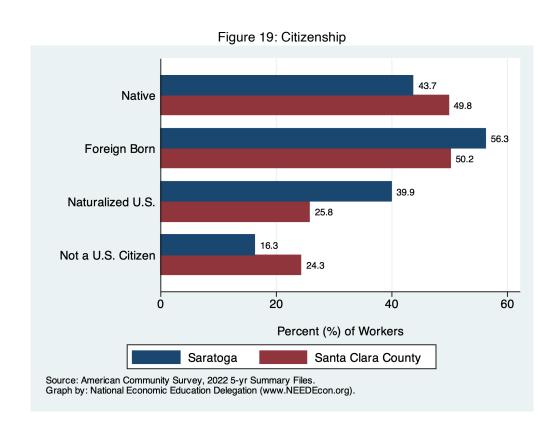
Figure 16: Employment by Occupation





42.9 Speak only English Speak Spanish (SS) 17.0 SS - English very well 10.0 SS - English less than very well 56.1 Speak other languages (SOL) 39.3 SOL - English very well 27.1 11.0 SOL - English less than very well 12.2 20 40 60 Percent (%) of Workers Saratoga Santa Clara County Source: American Community Survey, 2022 5-yr Summary Files. Graph by: National Economic Education Delegation (www.NEEDEcon.org).

Figure 18: Language Spoken at Home



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#### **Employed Residents vs Workers in Saratoga**

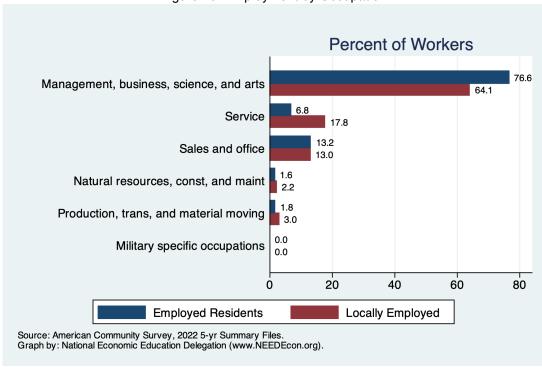
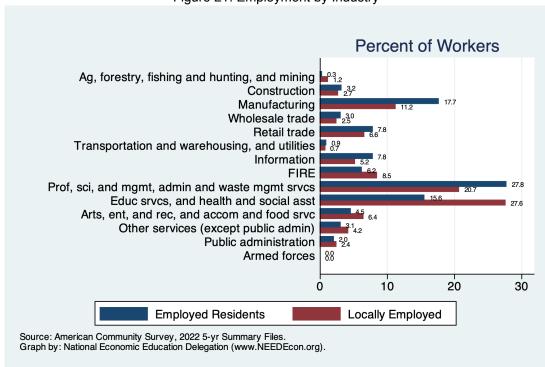


Figure 20: Employment by Occupation

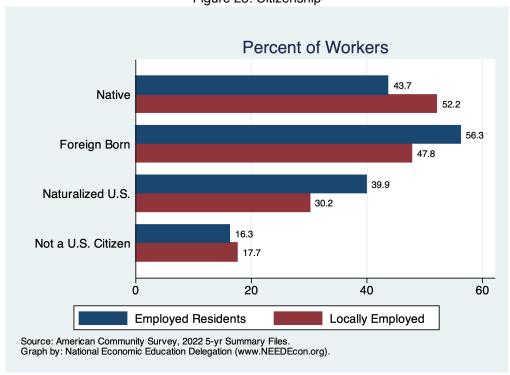




Percent of Workers Speak only English Speak Spanish (SS) 11.7 SS - English very well SS - English less than very well 56.1 Speak other languages (SOL) 43.3 45.0 SOL - English very well 11.0 SOL - English less than very well 20 Ó 40 60 **Employed Residents** Locally Employed Source: American Community Survey, 2022 5-yr Summary Files. Graph by: National Economic Education Delegation (www.NEEDEcon.org).

Figure 22: Language Spoken at Home





# **Income and Earnings**

#### Per Capita Income Growth

#### **Definition:**

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

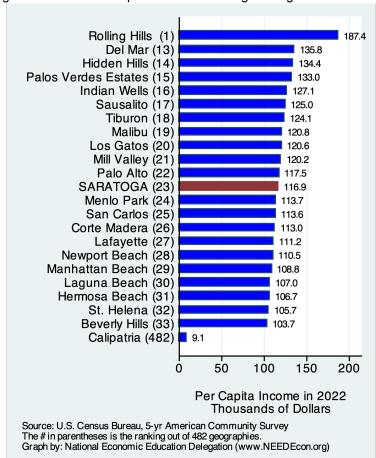
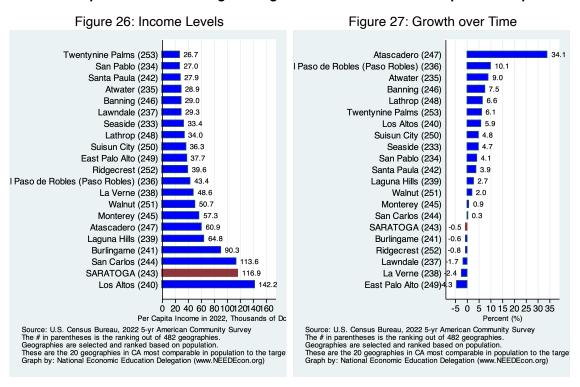


Figure 24: Real Per Capita Income Ranking Among California Cities

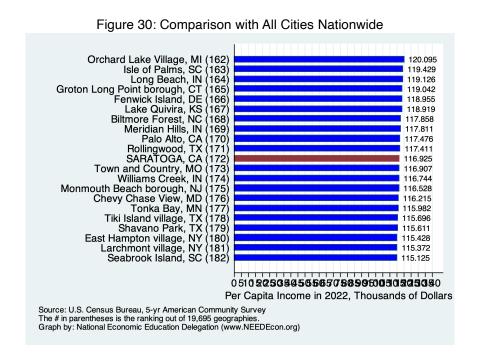
Figure 25: Regional Comparison of Growth over Time Over the last 1, 5, and 10 years 140 Annual Growth Rate to 2022 (%) 130 Indexed to 100 in 2010 120 110 2 100 90 Ave. 2025 Year: Through 2022 5 Years 10 Years 1 Year Saratoga (120.3%) Santa Clara County (136.7%) Saratoga Santa Clara County United States (112.5%) California United States California (116.4%) Source: U.S. Census Bureau, 5-yr American Community Survey Graph by: National Economic Education Delegation (www.NEEDEcon.org) Source: U.S. Census Bureau, 5-yr American Community Survey Graph by: National Economic Education Delegation (www.NEEDEcon.org)

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



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

Figure 28: Income Levels Figure 29: Growth over Time Gilroy (15) Los Gatos (4) San Jose (14) Cupertino (8) Milpitas (13) Santa Clara (10) Morgan Hill (12) Milpitas (13) Campbell (11) Los Altos (3) Santa Clara (10) Mountain View (7) Sunnyvale (9) Sunnyvale (9) 89.4 Cupertino (8) Campbell (11) Mountain View (7) San Jose (14) 3.5 102.1 SARATOGA (6) 116.9 Palo Alto (5) Palo Alto (5) Los Altos Hills (1) Los Gatos (4) Morgan Hill (12) Los Altos (3) 142.2 Gilroy (15) Monte Sereno (2) 157.9 Monte Sereno (2) -0.1 SARATOGA (6) Los Altos Hills (1) -0.5 20 40 60 80 100 120 140 160 180 ò 10 5 Per Capita Income in 2022, Thousands of Dollars Percent (%) Source: U.S. Census Bureau, 2022 5-yr American Community Survey
The # in parentheses is the ranking out of 15 geographies.
Geographies are selected and ranked based on population.
These are the cities in the same county as the target city.
Graph by: National Economic Education Delegation (www.NEEDEcon.org) Source: U.S. Census Bureau, 2022 5-yr American Community Survey The # in parentheses is the ranking out of 15 geographies. Geographies are selected and ranked based on population. These are the cities in the same county as the target city. Graph by: National Economic Education Delegation (www.NEEDEcon.org)



#### Poverty and Inequality

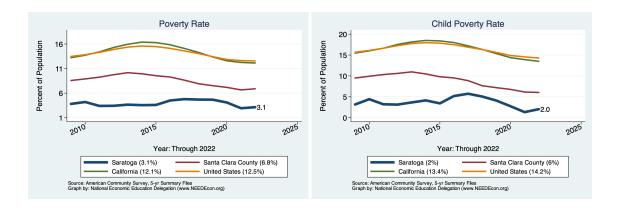
#### **Definition:**

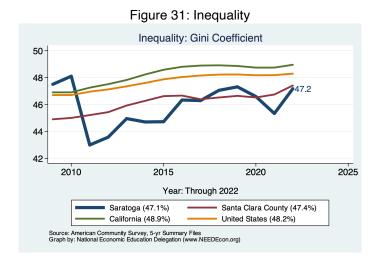
The local poverty rate provides an indication of the well-being of those at the bottom of the income distribution. The federal poverty rate measures the proportion of households in the region that are classified as living in poverty. Also included are measures of the extent to which the City's children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

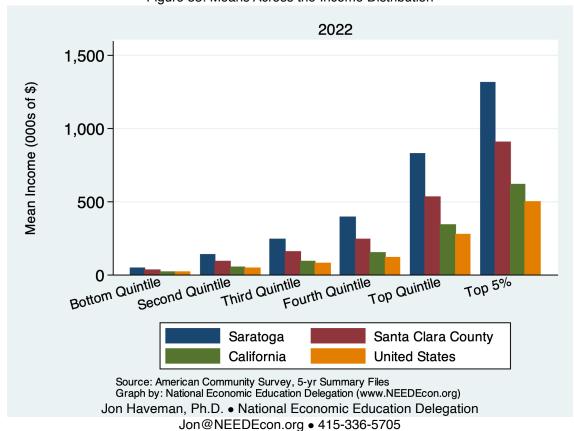




2022 50 Percent of All Income 40 30 20 10 0 Bottom Quintile Second Quintile Third Quintile Fourth Quintile Top Quintile Top 5% Santa Clara County Saratoga California **United States** Source: American Community Survey, 5-yr Summary Files Graph by: National Economic Education Delegation (www.NEEDEcon.org)

Figure 32: Shares Across the Income Distribution





# Housing

#### Housing Costs and Affordability

#### **Definition:**

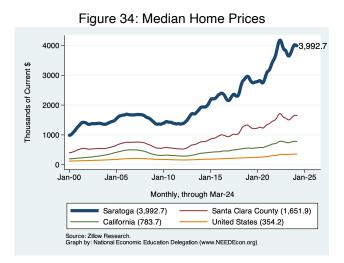
Housing costs are measured in several different ways. First, we provide evidence on the evolution of median home prices, median rental price, and finally through evidence on the housing burden in the city and comparison regions. Housing burden is defined as a household needing to commit more than 30%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

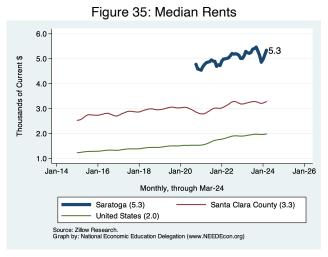
percent of units are above the median and 50 percent are below.

#### 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 Saratoga and Broader Regions





#### Housing Ownership in Saratoga and Broader Regions

Figure 36: Home Ownership Rates

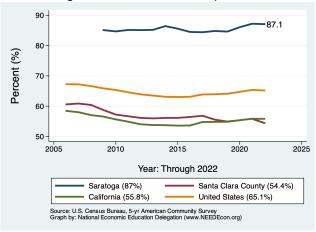


Figure 37: Home Ownership by Age

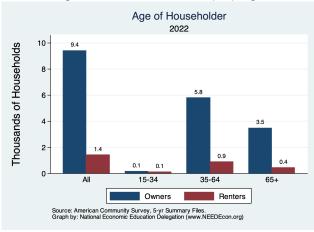


Figure 38: Income by Tenure

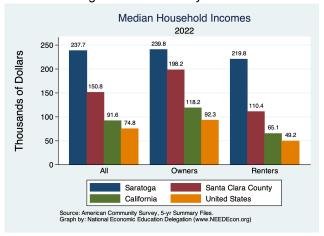


Figure 39: Income Distribution by Tenure

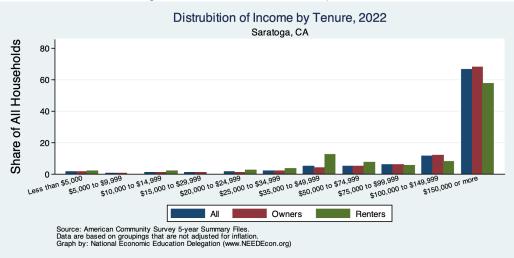


Figure 40: Income Distribution of Home Owners

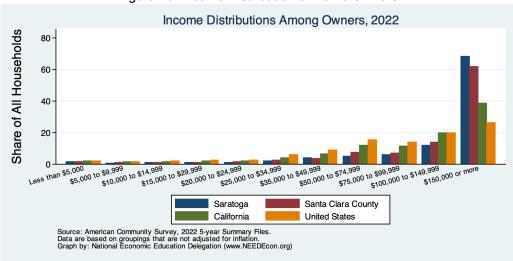


Figure 41: Income Distribution of Renters



#### Housing Burden in Saratoga and Broader Regions

Figure 42: Home Owners w/ A Mortgage

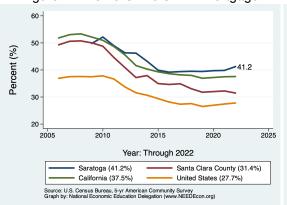


Figure 43: Home Owners w/o A Mortgage

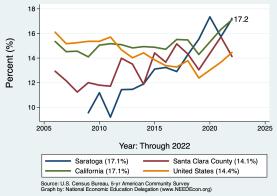


Figure 44: Renters

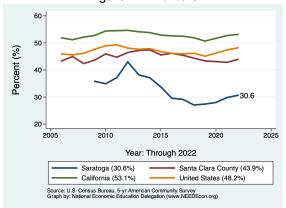
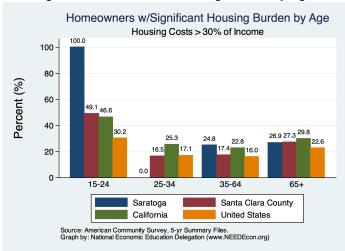


Figure 45: Homeowner Housing Burden by Age



#### Housing Picture

#### **Definition:**

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

#### Why is it important?

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

**Table 5. Housing Market Indicators** 

		% Change fro					
Indicator	2023	2019	2010	2019	2010		
Total Population	30,567.0	31,002.0	29,926.0	-1.4	2.1		
Total # of Homes	11,353.0	11,284.0	11,123.0	0.6	2.1		
# Occupied Units	10,894.0	10,784.0	10,734.0	1.0	1.5		
Persons per Household	2.8	2.9	2.8	-2.5	0.6		
Vacancy Rate (%)	4.0	4.4	3.5	-8.8	15.6		

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

Figure 46: Housing Growth

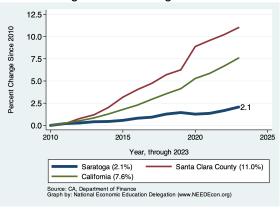


Figure 47: Persons per Household

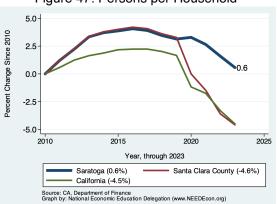


Figure 48: Vacancy Rates

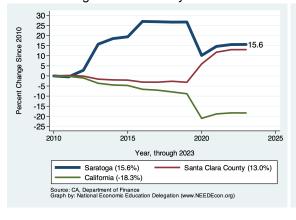
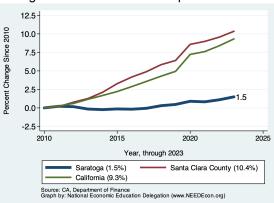


Figure 49: Number of Occupanied Units



#### Trends in the Growth of Housing by Housing Type

7.5-5.0-2.5-

Figure 50: Single Detached Homes

Percent Change Since 2010

0.0

Figure 51: Single Attached Homes

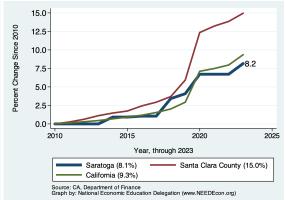
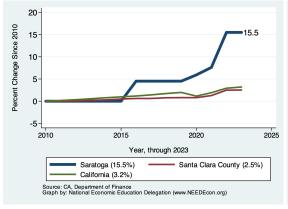
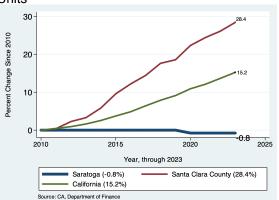




Figure 52: Housing in Buildings with Two to Four Figure 53: Housing in Buildings with Five or More Units

Units





#### Vintage of Residential Housing

#### Why is it important?

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

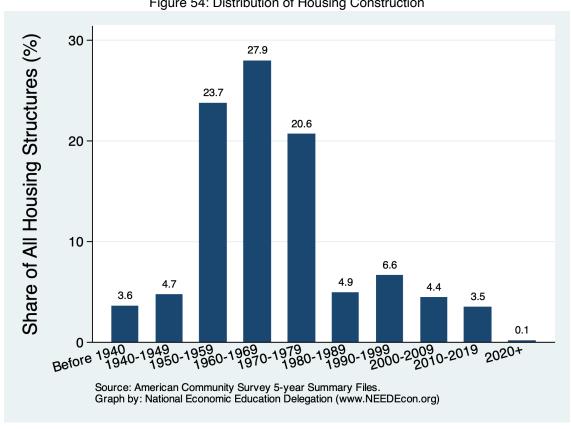


Figure 54: Distribution of Housing Construction

Figure 55: Housing Vintage across Regions

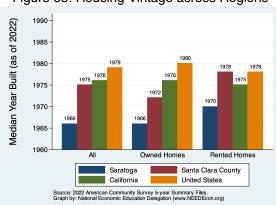


Figure 56: Housing Vintage by Tenure

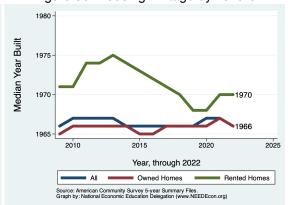


Figure 57: Vintage of Owned Residences

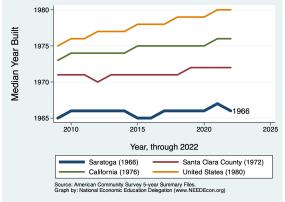


Figure 58: Vintage of Rented Residences

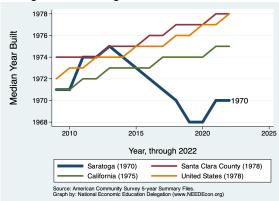
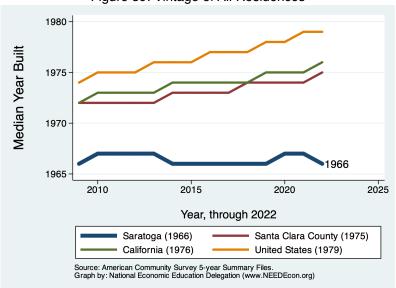


Figure 59: Vintage of All Residences



#### 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.

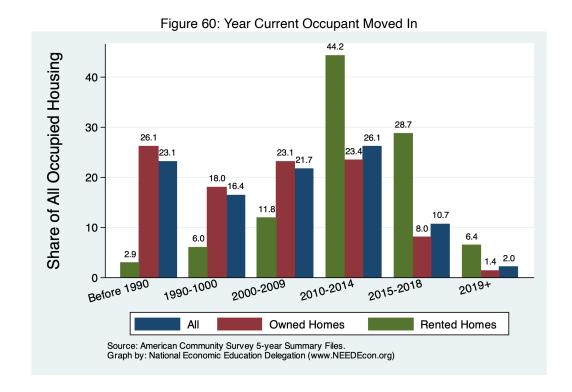


Figure 61: Year Occupied by Current Residents Figure 62: Year Occupied by Current Residents across Regions by Tenure



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

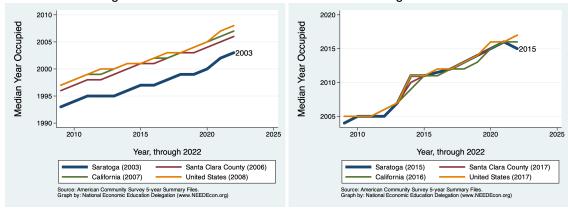
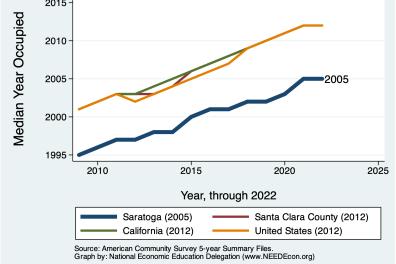


Figure 65: Year Occupied by Current Residents for All Housing



#### Residential Permitting

#### **Definition:**

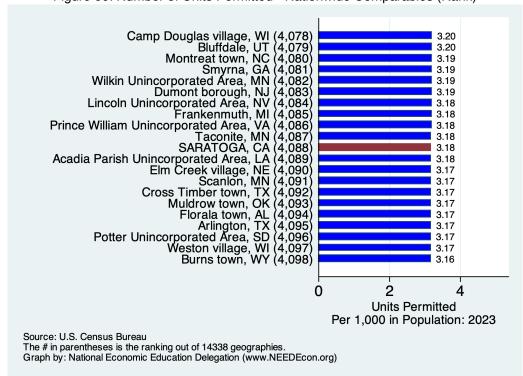
This indicator provides evidence on the number of residential buildings that are permitted for construction each year. Permit data for Saratoga is compared with data from Santa Clara County as a whole and broader regions. The statistic provided scales the number of permits by population. This is done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

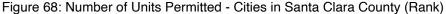
#### Saratoga - Ranking Among Comparables

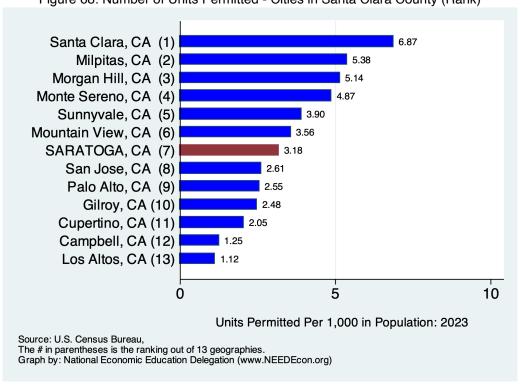
Figure 66: Number of Units Permitted - Nationwide Comparables (Rank)



Paradise town, CA 86.39 Pismo Beach, CA 3.39 3.38 San Jacinto. 3.36 3.36 Truckee town, CA Delano, Los Altos Hills town, C 3.33 Pomona, CA Los Angeles, 3.31 3.30 Davis, El Dorado Unincorporated Area, 3.29 SARATOGA, 3.18 Avenal, Encinitas, CA Rocklin, CA 3.09 Chula Vista, 3.09 Kingsburg, CA Lake Forest, CA 3.07 3.04 3.01 Burbank, CA Santa Paula, CA Arcadia, CA 3.01 Amador City, CA (515) 0.00 10 20 30 40 50 60 70 80 90 Units Permitted Per 1,000 in Population: 2023 Source: U.S. Census Bureau. The # in parentheses is the ranking out of 515 geographies. Graph by: National Economic Education Delegation (www.NEEDEcon.org)

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





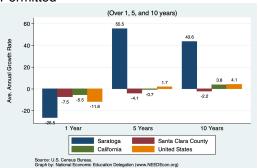
#### Saratoga - Permitting Activity

#### Annual Units Permitted - Per Capita in Saratoga

Figure 69: Units Permitted Each Year

Units per 1,000 Population 2000 2005 2020 2025 Year: Through 2023 Saratoga (3.2) - California (2.9) United States (4.4)

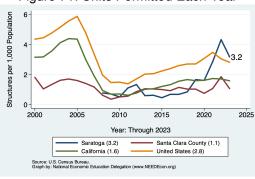
Figure 70: Average Annual Growth in Units Permitted



#### Annual Number of Buildings Permitted - Per Capita in Saratoga

Figure 72: Average Annual Growth in Buildings Permitted

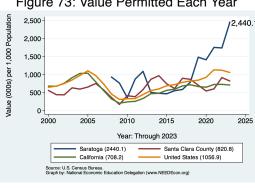
Figure 71: Units Permitted Each Year





#### Annual Value of Property Permitted - Per Capita in Saratoga

Figure 73: Value Permitted Each Year



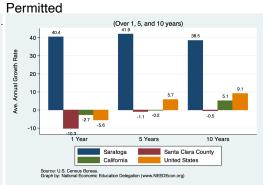


Figure 74: Average Annual Growth in Value

#### **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 Figure 76: Percent of Workers Commuting by Car Alone Carpool

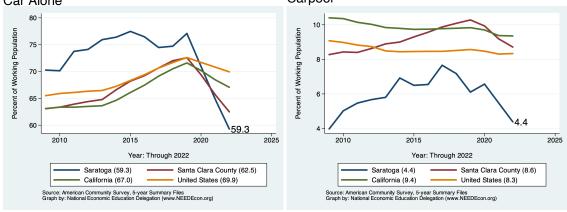
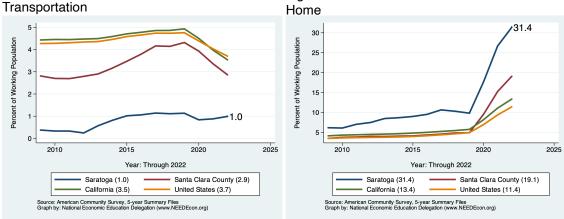


Figure 77: Percent of Workers using Public Figure 78: Percent of Workers Who Work From



The first table on this page presents data for those who LIVE in Saratoga. The second provides data on those who work, but do not necessarily live in Saratoga. 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

	Ma	Male Female		Female All Workers All o		All of CA	
Mode of Transit	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van:	4,705	62.3	4, 120	65.3	8,825	63.7	78.0
Drove Alone	4,391	58.1	3,826	60.7	8,217	59.3	68.4
Carpooled:	314	4.2	294	4.7	608	4.4	9.5
In 2-person carpool	264	3.5	237	3.8	501	3.6	6.9
In 3-person carpool	20	0.3	36	0.6	56	0.4	1.5
In 4-or-more-person carpool	30	0.4	21	0.3	51	0.4	1.1
Public Transportation (excl Taxi):	91	1.2	46	0.7	137	1.0	3.6
Bus or Trolley Bus	27	0.4	46	0.7	73	0.5	2.3
Streetcar or Trolley Car	28	0.4	0	0.0	28	0.2	0.8
Subway or Elevated	13	0.2	0	0.0	13	0.1	0.3
Railroad	23	0.3	0	0.0	23	0.2	0.2
Ferryboat	0	0.0	0	0.0	0	0.0	0.1
Bicycle	33	0.4	12	0.2	45	0.3	0.7
Walked	70	0.9	56	0.9	126	0.9	2.4
Taxicab, Motorcycle, or other	69	0.9	48	0.8	117	0.8	1.7
Worked at Home	2,321	30.7	2,025	32.1	4,346	31.4	13.6
Total:	7, 289	96.5	6,307	100.0	13, 596	98.1	

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

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

WOTHER EAGL GLOGIE							
	M	ale	e Female		All Workers		All of CA
Mode of Transit	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van:	1,951	43.3	3,446	61.6	5,397	53.4	78.0
Drove Alone	1,634	36.2	2,846	50.9	4,480	44.3	68.5
Carpooled:	317	7.0	600	10.7	917	9.1	9.5
In 2-person carpool	267	5.9	486	8.7	753	7.5	6.9
In 3-person carpool	31	0.7	95	1.7	126	1.2	1.5
In 4-or-more-person carpool	19	0.4	19	0.3	38	0.4	1.1
Public Transportation (excl Taxi):	64	1.4	19	0.3	83	0.8	3.6
Bus or Trolley Bus	64	1.4	19	0.3	83	0.8	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	39	0.9	13	0.2	52	0.5	0.7
Walked	88	2.0	34	0.6	122	1.2	2.4
Taxicab, Motorcycle, or other	45	1.0	58	1.0	103	1.0	1.7
Worked at Home	2,321	51.5	2,025	36.2	4,346	43.0	13.6
Total:	4,508	100.0	5, 595	100.0	10, 103	100.0	

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, SI	EX OF WORL	KERS BY TRA	AVEL TIME	TO WORK

	Ma	Male		Female		rkers	All of CA
Mode of Transit	#	(%)	#	(%)	#	(%)	(%)
Less than 5 minutes	84	1.2	85	1.6	169	1.4	2.0
5 to 9 minutes	145	2.1	235	4.4	380	3.2	7.5
10 to 14 minutes	322	4.7	473	8.8	795	6.6	12.2
15 to 19 minutes	672	9.8	542	10.1	1,214	10.1	15.0
20 to 24 minutes	748	10.9	625	11.7	1,373	11.5	14.3
25 to 29 minutes	441	6.4	354	6.6	795	6.6	6.3
30 to 34 minutes	1,218	17.7	848	15.8	2,066	17.2	15.0
35 to 39 minutes	169	2.5	103	1.9	272	2.3	2.9
40 to 44 minutes	342	5.0	240	4.5	582	4.9	4.3
45 to 59 minutes	453	6.6	540	10.1	993	8.3	8.6
60 to 89 minutes	256	3.7	208	3.9	464	3.9	7.9
90 or more minutes	118	1.7	29	0.5	147	1.2	4.0
Total:	4,968	72.3	4, 282	79.8	9,250	77.2	

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

Figure 79: Percent of Employed Population With Figure 80: Percent of Employed Population With Commutes of More than 30 Minutes

Commutes of More than 90 Minutes

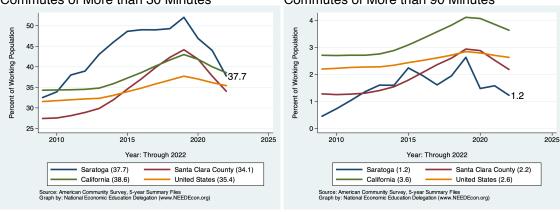
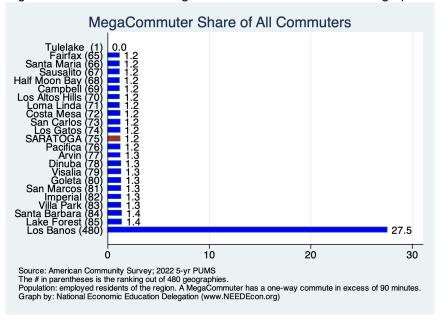


Figure 81: Rank: Share of MegaCommuters Across Similar Geographies



#### Commute Times for Those Employed in the City

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

WORKE EASE GEOGRAFIE										
	Ma	ıle	Fem	nale	All Wo	All Workers				
Mode of Transit	#	(%)	#	(%)	#	(%)	(%)			
Less than 5 minutes	114	3.7	55	1.3	169	2.3	2.0			
5 to 9 minutes	113	3.6	223	5.3	336	4.6	7.5			
10 to 14 minutes	213	6.9	251	6.0	464	6.4	12.2			
15 to 19 minutes	385	12.4	616	14.8	1,001	13.8	15.0			
20 to 24 minutes	275	8.9	464	11.1	739	10.2	14.3			
25 to 29 minutes	126	4.1	245	5.9	371	5.1	6.3			
30 to 34 minutes	507	16.4	790	18.9	1,297	17.9	15.0			
35 to 39 minutes	0	0.0	81	1.9	81	1.1	2.9			
40 to 44 minutes	93	3.0	224	5.4	317	4.4	4.3			
45 to 59 minutes	166	5.4	287	6.9	453	6.3	8.6			
60 to 89 minutes	121	3.9	264	6.3	385	5.3	7.9			
90 or more minutes	74	2.4	70	1.7	144	2.0	4.0			
Total:	2,187	70.5	3,570	85.5	5,757	79.6				

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 Figure 83: Percent of Local Employees With Commutes of More than 30 Minutes

Commutes of More than 90 Minutes

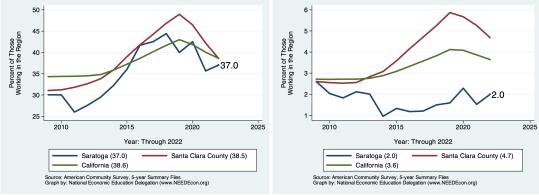
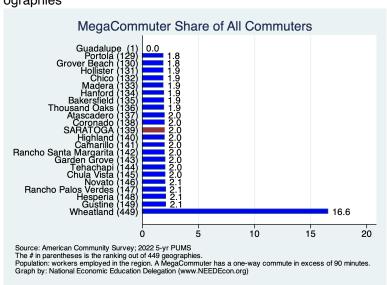


Figure 84: Rank: Share of MegaCommuters Across Similar Geographies



#### Place of Work

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

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

	Male		Female		All Workers		All of CA
Place of Work	#	(%)	#	(%)	#	(%)	(%)
Worked in state of residence:	7, 265	96.1	6, 241	99.0	13,506	97.5	99.6
Worked in county of residence	6,591	87.2	5,810	92.1	12,401	89.5	84.1
worked outside of county of residence	674	8.9	431	6.8	1,105	8.0	15.4
Worked outside state of residence	24	0.3	66	1.0	90	0.6	0.4
Total:	7, 289	96.5	6,307	100.0	13,596	98.1	

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

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

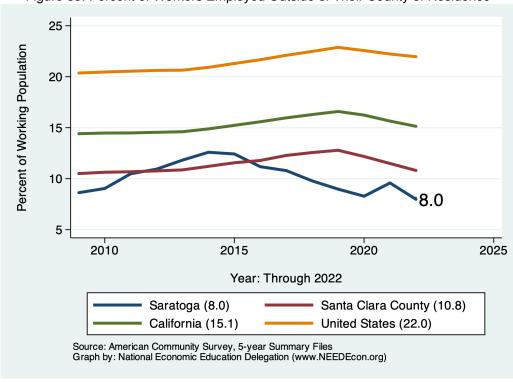
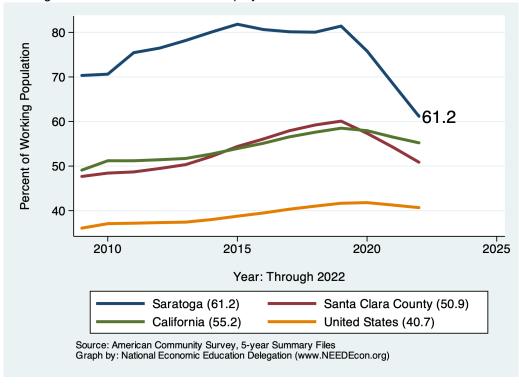


Table 11. SEX OF WORKERS BY PLACE OF WORK-PLACE LEVEL

	Male		Female		All Workers		All of CA
Place of Work	#	(%)	#	(%)	#	(%)	(%)
Living in a place:	7, 289	96.5	6,307	100.0	13, 596	98.1	95.9
Worked in place of residence	2,730	36.1	2,390	37.9	5,120	37.0	39.5
Worked outside place of residence	4,559	60.3	3,917	62.1	8,476	61.2	56.4
Not living in a place	0	0.0	0	0.0	0	0.0	4.1
Total:	7, 289	96.5	6, 307	100.0	13,596	98.1	

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		United Sta	tes
	Median	Median	Ratio	Median	Ratio
Car, truck, or van - drove alone	142, 512	48, 566	101.5	46, 171	101.0
Car, truck, or van - carpooled	143,929	36,463	136.5	34,487	136.5
Public transportation (excluding taxicab)		40,179		45,100	
Walked		29,366		27,142	
Taxicab, motorcycle, bicycle, or other means	223,889	40,433	191.5	36,140	202.6
Worked from home	139,628	75, 153	64.3	67, 180	68.0
Total:	140,933	48,747	289.1	46,099	305.7

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.

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

	< \$25	25,000 \$25,000-\$74,999		\$75,0	\$75,000+		All		
Mode of Transit	#	(%)	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van: Drove Alone	1,369	59.4	810	36.7	5,811	60.2	8, 217	59.3	68.4
Car, Truck, or Van: Carpooled	55	2.4	105	4.8	411	4.3	608	4.4	9.5
Public Transportation (excl Taxi)	3	0.1	73	3.3	61	0.6	137	1.0	3.6
Walked	56	2.4	0	0.0	70	0.7	126	0.9	2.4
Taxicab, Motorcycle, or other	12	0.5	0	0.0	145	1.5	162	1.2	2.4
Worked at Home	607	26.3	546	24.8	3,065	31.8	4,346	31.4	13.6
Total:	2, 102	91.2	1,534	69.5	9, 563	99.1	13,596	98.1	100.0

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

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

	< \$25	5,000	\$25,000	-\$74,999	\$75,0	000+	Al	I	All of CA
Mode of Transit	#	(%)	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van: Drove Alone	1,189	41.5	986	36.7	1,706	32.8	4,480	44.3	68.5
Car, Truck, or Van: Carpooled	182	6.4	376	14.0	258	5.0	917	9.1	9.5
Public Transportation (excl Taxi)	44	1.5	29	1.1	10	0.2	83	0.8	3.6
Walked	54	1.9	0	0.0	68	1.3	122	1.2	2.4
Taxicab, Motorcycle, or other	27	0.9	39	1.5	89	1.7	155	1.5	2.4
Worked at Home	607	21.2	546	20.4	3,065	59.0	4,346	43.0	13.6
Total:	2, 103	73.4	1,976	73.6	5, 196		10, 103		

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.

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

# Commute Mode by Poverty Status

Table 15. MODE OF TRANSPORTATION TO WORK BY POVERTY STATUS

	In Po	overty	100-14	9% of Pov	>150%	of Pov	Al		All of CA
Mode of Transit	#	(%)	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van: Drove Alone	72	17.1	93	68.9	8,052	59.7	8,217	59.3	68.7
Car, Truck, or Van: Carpooled	34	8.1	0	0.0	574	4.3	608	4.4	9.5
Public Transportation (excl Taxi)	3	0.7	0	0.0	134	1.0	137	1.0	3.6
Walked	2	0.5	0	0.0	124	0.9	126	0.9	2.1
Taxicab, Motorcycle, or other	0	0.0	0	0.0	162	1.2	162	1.2	2.4
Worked at Home	117	27.8	42	31.1	4,187	31.0	4,346	31.4	13.6
Total:	228	54.2	135		13, 233	98.1	13,596	98.1	

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

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

	In Poverty		100-14	9% of Pov	>150% of Pov		Al	l	All of CA
Mode of Transit	#	(%)	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van: Drove Alone	209	48.9	176	51.0	4,095	43.2	4,480	44.3	68.7
Car, Truck, or Van: Carpooled	0	0.0	52	15.1	865	9.1	917	9.1	9.5
Public Transportation (excl Taxi)	3	0.7	21	6.1	59	0.6	83	0.8	3.6
Walked	0	0.0	0	0.0	122	1.3	122	1.2	2.1
Taxicab, Motorcycle, or other	7	1.6	0	0.0	148	1.6	155	1.5	2.4
Worked at Home	117	27.4	42	12.2	4,187	44.2	4,346	43.0	13.6
Total:	336	78.7	291	84.3	9,476		10, 103		

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 Saratoga 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.

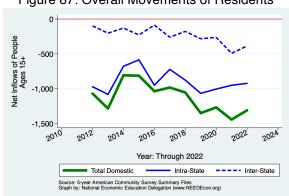


Figure 87: Overall Movements of Residents

Table 17: Migration by Income

		N	Net Inflows								
			Same	e State		-					
			W/in	Between	Across	From					
Category	Population	All Migration	County	Counties	States	Abroad					
No income	4,046	-221	-145	-60	-109	93					
With income	22,407	-762	-167	-551	-277	233					
\$1 to \$9,999 or loss	2,480	-181	-49	-82	-106	56					
\$10,000 to \$14,999	1,579	-237	-123	-84	-33	3					
\$15,000 to \$24,999	1,534	-127	45	-161	-21	10					
\$25,000 to \$34,999	1,003	-61	-46	-7	-38	30					
\$35,000 to \$49,999	1,112	-127	-29	-76	-22	0					
\$50,000 to \$64,999	1,428	26	13	-8	21	0					
\$65,000 to \$74,999	534	-30	-26	-4	0	0					
\$75,000 or more	12,737	-25	48	-129	-78	134					
All:	26,453	-983	-312	-611	-386	326					

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

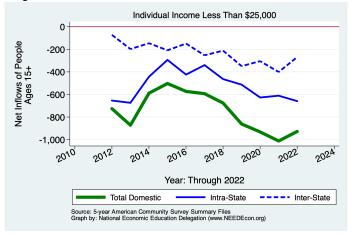


Figure 89: Overall Movements of Middle Income Residents

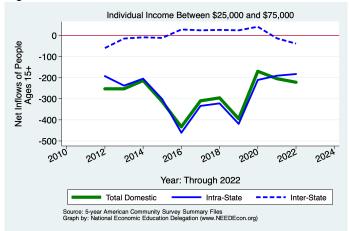
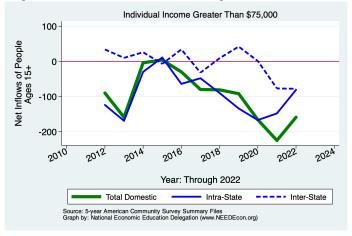


Figure 90: Overall Movements of High Income Residents



## **Demographics of Migration Flows**

**Table 18: Migration by Marital Status** 

		N	et Inflows					
			Same State					
			W/in	Between	Across	From		
Category	Population	All Migration	County	Counties	States	Abroad		
Never married	5,836	-719	-204	-246	-299	30		
Now married, except separated	18,091	-246	-88	-342	-79	263		
Divorced	966	-45	4	-44	-15	10		
Separated	172	-30	-34	4	0	0		
Widowed	1,388	57	10	17	7	23		
Total:	26, 453	-983	-312	-611	-386	326		

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

**Table 19: Migration by Tenure** 

		N	Net Inflows Same State					
			_					
			W/in	Between	Across	From		
Category	Population	All Migration	County	Counties	States	Abroad		
Householder lived in owner-occupied housing units	26,747	531	476	-42	-254	351		
Householder lived in renter-occupied housing units	3,680	-1,019	-748	-413	115	27		
Total:	30,427	-488	-272	-455	-139	378		

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

500 -500

Figure 91: Domestic Movements of Residents by Tenure

Net Inflows of People Ages 15+ -1,000 -1,500 2016 2012 Year: Through 2022 Owner: Intra-State --- Owner: Inter-State Renter: Intra-State --- Renter: Inter-State Source: 5-year American Community Survey Summary Files Graph by: National Economic Education Delegation (www.NEEDEcon.org)

Table 20: Migration by Age

		N	Net Inflows							
				e State		_				
			W/in	Between	Across	From				
Category	Population	All Migration	County	Counties	States	Abroad				
1 to 4 years	548	64	27	13	24	0				
5 to 17 years	5,355	115	24	11	-2	82				
18 and 19 years	615	-280	-27	-88	-165	0				
20 to 24 years	980	-231	-75	-74	-82	0				
25 to 29 years	1,116	-67	-82	10	5	0				
30 to 34 years	737	-82	18	-100	0	0				
35 to 39 years	1,503	101	51	20	-14	44				
40 to 44 years	1,937	77	21	-16	72	0				
45 to 49 years	2,016	76	13	-2	-29	94				
50 to 54 years	2,840	-91	-51	-34	-59	53				
55 to 59 years	2,805	-135	-38	-83	-24	10				
60 to 64 years	2,567	-182	-32	-112	-38	0				
65 to 69 years	1,930	-37	-33	-40	-18	54				
70 to 74 years	1,707	-19	-25	0	0	6				
75 years and over	4,011	-71	-22	-84	0	35				
Total Population:	30,667	-762	-231	-579	-330	378				

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

Table 21: Migration by Educational Attainment

		N				
			Same State			
			W/in	Between	Across	From
Category	Population	All Migration	County	Counties	States	Abroad
Less than high school graduate	679	-17	12	-29	0	0
High school graduate (includes equiv)	1,298	-125	-62	-114	10	41
Some college or assoc. degree	2,675	-36	-42	-41	-30	77
Bachelor's degree	7,832	-381	-269	-209	36	61
Graduate or professional degree	10,685	129	181	-48	-121	117
Total:	23, 169	-430	-180	-441	-105	296

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

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

Table 221 median meeting of imgration rions		
Flow	In-Migration	Out-Migration
Same House 1 Year Ago	92,086	92,086
Moved Within Same County	172,083	86,591
Moved to Different County, Same State	191,250	45,484
Moved Between States	110,789	45,954
Total Population:	93,884	91,130

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	52.1	52.1
Moved Within Same County	39.8	41.8
Moved to Different County, Same State	33.5	39.5
Moved Between States	36.7	25.7
Moved from Abroad	48.6	
Total Population:	51.0	51.2

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 relased in January.

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