Dublin, California

Indicators Report

by The National Economic Education Delegation (NEED)

April 20, 2024

Exploring the economics, demographics, and well-being of Dublin 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 Dublin (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 Dublin. These indicators are compared to Alameda 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 Dublin 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 Dublin 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 Dublin, 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 Dublin, but do not necessarily live in Dublin.
- **Migration:** Population changes comes primarily through organic causes: births and deaths. Migration between regions also plays a significant role in population growth. A final section of the report provides evidence on migration into and out of the City.

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Demographics

Definition:

Data on the demographics of a city indicate the nature of the population, with a focus on age, gender, race and ethnicity, as well as house-hold compositon.

Why is it important?

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

A Demographic Snapshot

Statistic	2022	2019
POPULATION		
Population Estimate (#, 5yr)	71,068.0	61,240.0
Veterans (#, 5yr)	1,371.0	1,283.0
Foreign born persons (%, 5yr)	40.0	39.0
Population age 25+ (#, 5yr)	48,651.0	42,068.0
AGE AND SEX		
Persons under 5 years (%, 5yr)	7.0	7.4
Persons under 18 years (%, 5yr)	26.1	26.6
Persons 65 years and over (%, 5yr)	9.6	9.1
Female persons (%, 5yr)	49.9	50.7
INCOME AND POVERTY		
Median household income (\$, 5yr)	191,039.0	150,299.0
Per capita income in past 12 months (\$, 5yr)	76,941.0	61,503.0
Persons in poverty (%, 5yr)	3.9	4.0
Children age less than 18 in poverty (#, 5yr)	535.0	634.0
Children age less than 18 in poverty (%, 5yr)	2.9	3.9
	00.7	
White alone (%, 5yr)	29.7	38.9
African American alone (%, 5yr)	4.3	3.7
American Indian or Alaska Native alone (%, 5yr)	0.7	0.5
Asian alone (%, 5yr)	53.5	48.9
Native Hawaiian and Other Pacific Islander alone (%, 5yr)	0.4	0.4
Two or More Races (%, 5yr) Hispanic or Latino (%, 5yr)	9.2 10.1	5.8 10.1
	26.6	32.4
White alone, not Hispanic or Latino (%, 5yr) HOUSING	20.0	32.4
Housing units (#, 5yr)	24,544.0	20,992.0
Owner-occupied housing units (%, 5yr)	64.4	20,992.0
Median value of owner-occupied housing units (%, 5yr)	1,164,100.0	882,200.0
Median selected monthly owner costs-with a mortgage (\$, 5yr)	4,001.0	3,666.0
Median selected monthly owner costs-with a mongage (\$, 5yr) Median selected monthly owner costs-without a mongage (\$, 5yr)		959.0
Median gross rent (\$, 5yr)	3,094.0	2,681.0
FAMILIES AND LIVING ARRANGEMENTS	0,004.0	2,001.0
Households (#, 5vr)	23,583.0	20,235.0
Persons per household (#, 5yr)	2.9	3.0
Living in same house 1 year ago, % of persons age 1+ (5yr)	82.0	81.4
EDUCATION	02.0	0
High school graduate or higher, % of persons age 25+ (5yr)	95.4	94.9
Bachelor's degree or higher, % of persons age 25+ (5yr)	68.9	66.3
HEALTH		
With a disability, under age 65 years (#, 5yr)	2,537.0	1,842.0
Persons without health insurance, under age 65 years (%, 5yr)	1.4	2.2
LABOR FORCE		
In civilian labor force, persons age 16+ (%, 5yr)	69.9	70.5
In civilian labor force, women age 16+ (%, 5yr)	61.8	59.7
Employed, persons age 16+ (%, 5yr)	65.6	66.1
Self employed (%, 5yr)	8.1	9.0
TRANSPORTATION		
Mean travel time to work, workers age 16+ (Mins., 5yr)	27.7	38.6
Drive alone in private vehicle (%, 5yr)	53.8	67.8
Using public transportation (%, 5yr)	15.3	23.3
Worked from home (%, 5yr)	27.2	6.5

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. Populati (Thousands, Janu	• • •	Region							
	2023		% Ch	ange					
Region	Population	1 Year	3 Year	5 Year					
City									
Dublin	71,750	-0.86	10.11	15.96					
	County and	d Broader	Regions						
Alameda County	1,636,194	-0.49	-1.62	-1.25					
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)

(Thousands, Janu	iary to Janua	ary)			
				% Change	9
City	2022	2023	Local	Bay Area	California
Alameda County	1,644.2	1,636.2	-0.49	-0.45	-0.35
Oakland	421.8	419.6	-0.53		
Fremont	229.1	229.5	0.15		
Hayward	160.1	159.8	-0.18		
Berkeley	123.2	123.6	0.30		
San Leandro	88.1	87.5	-0.66		
Livermore	85.9	84.8	-1.25		
Alameda	77.4	77.3	-0.19		
Pleasanton	77.5	76.5	-1.37		
Dublin	72.4	71.8	-0.86		
Union City	67.7	66.8	-1.40		
Newark	47.1	47.5	0.66		
Albany	21.5	21.4	-0.57		
Emeryville	12.5	12.6	1.06		
Piedmont	10.9	10.8	-1.10		

Source: CA DOF; Calculations by National Economic Education Delegation

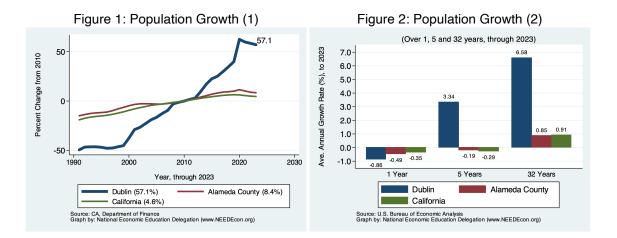
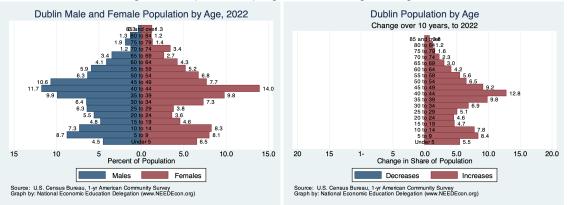
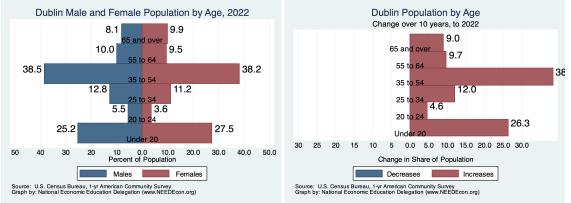


Figure 3: Population by Age - Detailed Age Categories







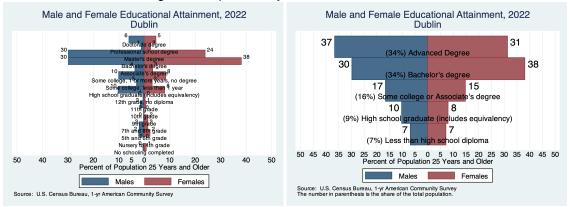


Figure 5: Population by Educational Attainment

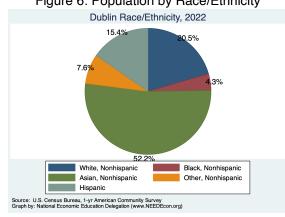
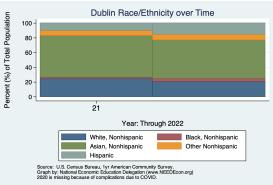


Figure 6: Population by Race/Ethnicity





Employment Report

Citywide Employment and Unemployment

Definition:

Each month, California's Employment Development Division (EDD) publishes an update on employment in California and in MSAs, counties, and cities all across the state. The report focuses primarily on non-farm employment, providing estimates of changes in employment by industry as well as unemployment in each region. Data for cities is limited to aggregate employment, labor force, and unemployment data. Those are reported below.

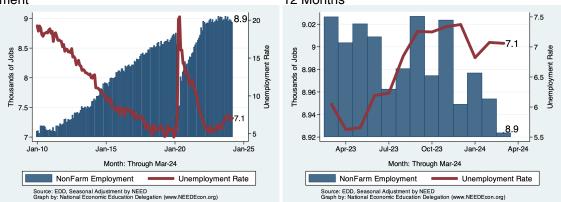
Why is it important?

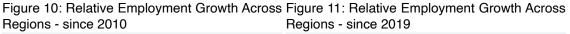
Employment growth is a fundamental indicator of the health of an economy.

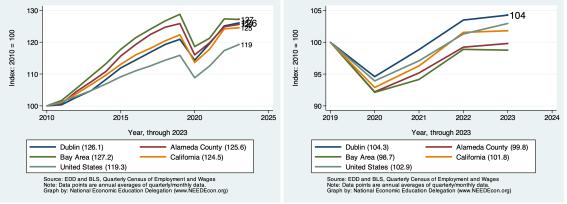
Table 3. Dublin Summary for March, 2024									
	Change From:								
Category	Current Value	Last Month	2 Months Ago	Last Year					
Employment	8,924	-30	-53	-103					
Labor Force	9,644	9	15	96					
Number Unemployed	678	-4	21	97					
Unemployment Rate	7.0	-0.0	0.2	0.9					

Source: EDD, National Economic Education Delegation

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







County Employment by Industry

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

			Empl	% Growth - Annualized Rate					
Industry	Employment	Share	Growth	Month	Qtr	6mo	1yr	3yr	5yr
Total Nonfarm	823, 371	100.0	1,966.6	2.9	0.4	1.1	1.1	2.7	0.3
Goods Producing	144,737	17.6	720.1	6.2	-6.0	-3.2	-1.6	1.3	1.6
Mining, Logging and Construction	48,272	5.9	799.6	22.2	-8.4	-3.0	0.4	-0.4	-0.5
Manufacturing	96,442	11.7	-26.5	-0.3	-3.8	-2.7	-3.0	2.0	2.7
Durable Goods	75,317	9.1	-21.0	-0.3	-4.6	-3.2	-3.7	2.6	4.5
Non-Durable Goods	20,938	2.5	-7.6	-0.4	-3.0	-1.6	-1.0	-0.0	-2.3
Service Providing	677, 573	82.3	1,085.9	1.9	1.4	1.9	1.6	3.0	-0.0
Trade, Trans & Utilities	137, 119	16.7	-413.9	-3.6	-0.7	-1.6	-0.9	1.0	-0.3
Wholesale Trade	32,689	4.0	-243.2	-8.5	-1.0	-3.3	-3.1	-0.5	-2.1
Retail Trade	63,503	7.7	-63.7	-1.2	0.9	0.7	0.4	-0.7	-2.0
Information	17,440	2.1	67.7	4.8	-4.5	-7.5	-6.9	-2.0	-2.8
Financial Activities	26,656	3.2	28.9	1.3	-4.7	-4.2	-2.5	-0.1	-1.2
Finance & Insurance	15,416	1.9	145.0	12.0	1.3	-1.2	-2.4	-3.1	-2.3
Real Estate & Rental & Leasing	11,378	1.4	-105.1	-10.5	-12.3	-6.0	-2.8	5.6	0.7
Professional & Business Srvcs	137,542	16.7	169.7	1.5	1.0	0.9	0.2	1.4	0.3
Prof, Sci, & Tech	82,593	10.0	222.4	3.3	2.9	3.3	1.8	3.1	1.8
Educational & Health Srvcs	143,220	17.4	769.5	6.7	4.7	5.8	6.1	5.4	2.8
Education Srvcs	16,300	2.0	132.5	10.3	-4.3	2.8	1.9	6.7	-0.2
Health Care & Social Assistance	126,957	15.4	626.8	6.1	5.2	6.1	6.6	5.3	3.3
Leisure & Hospitality	70,978	8.6	-133.1	-2.2	1.5	2.8	1.9	13.4	-1.7
Arts, Entertainment & Recreation	12,293	1.5	194.9	21.1	13.1	12.9	7.0	32.6	-0.3
Accommodation & Food Srvcs	59,226	7.2	-191.8	-3.8	1.8	2.0	0.8	11.3	-1.8
Other Srvcs	28,484	3.5	402.7	18.6	-5.0	1.1	4.0	8.9	0.7
Government	115,339	14.0	242.6	2.6	2.2	3.1	2.4	0.1	-1.4
Federal	8,514	1.0	0.0	0.0	-3.0	0.0	0.8	-0.5	-0.5
State	27,661	3.4	-35.9	-1.5	-1.4	2.3	1.0	-7.4	-5.4
Local	77,889	9.5	257.5	4.1	3.6	3.4	3.0	3.5	0.2

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

Source: EDD, National Economic Education Delegation (NEED)

Some Employee Detail

Employed in Dublin

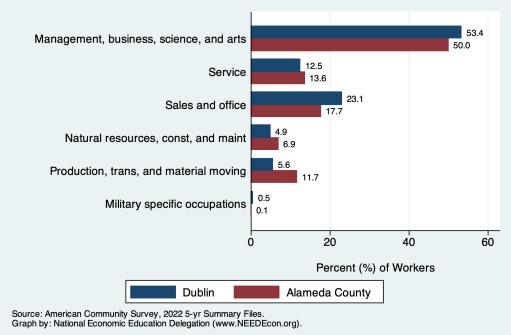
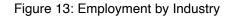
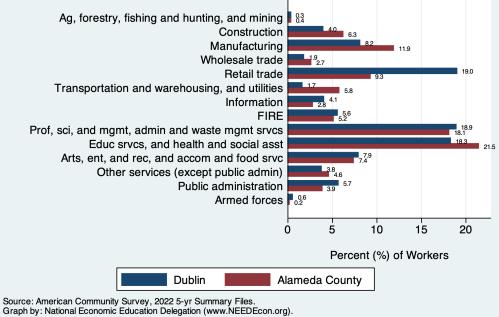
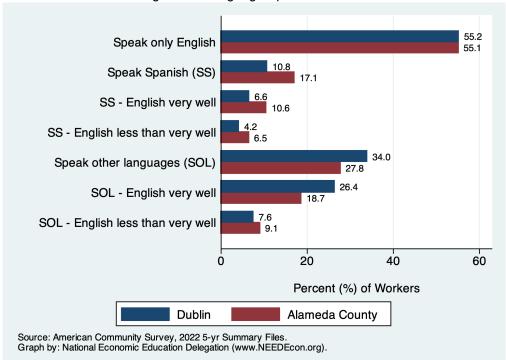
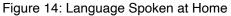


Figure 12: Employment by Occupation









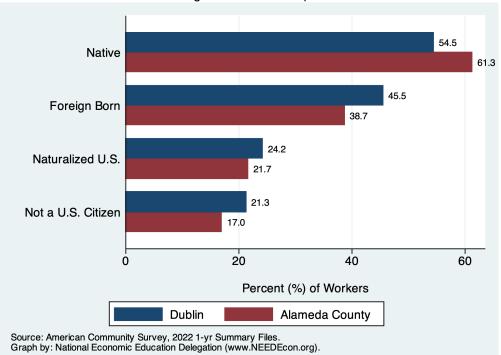


Figure 15: Citizenship

Employed Residents of Dublin

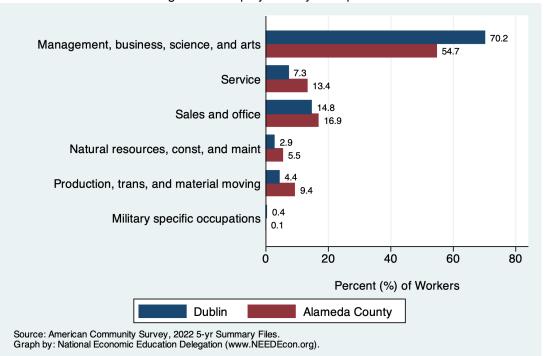
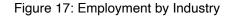
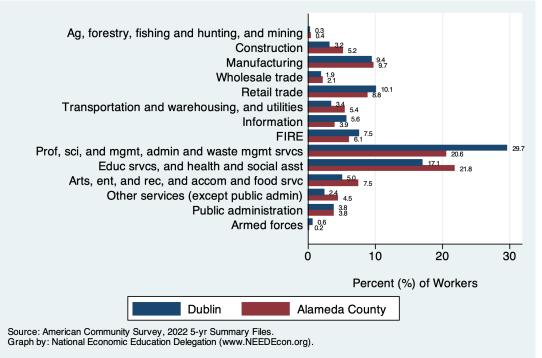
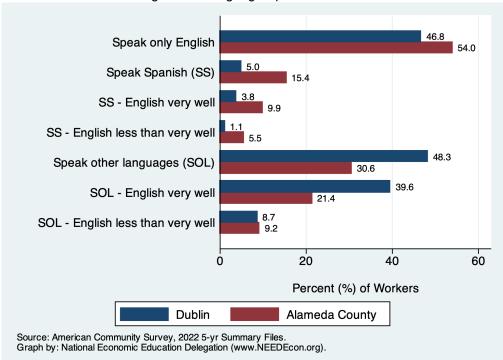


Figure 16: Employment by Occupation









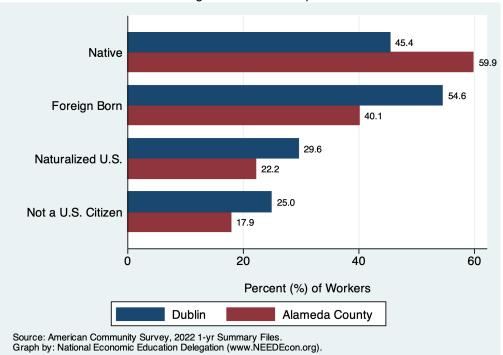


Figure 19: Citizenship

Employed Residents vs Workers in Dublin

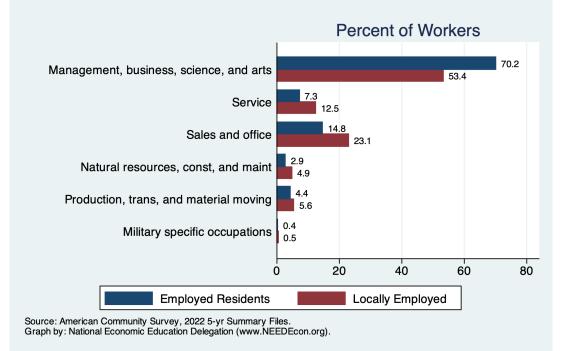
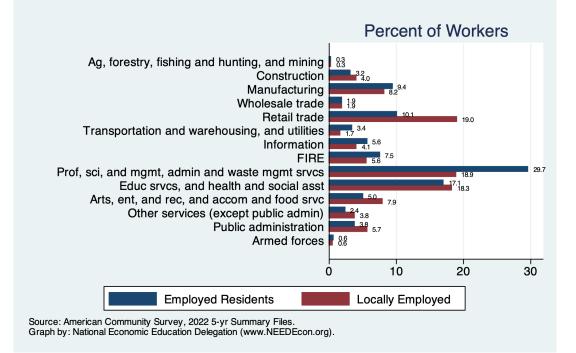
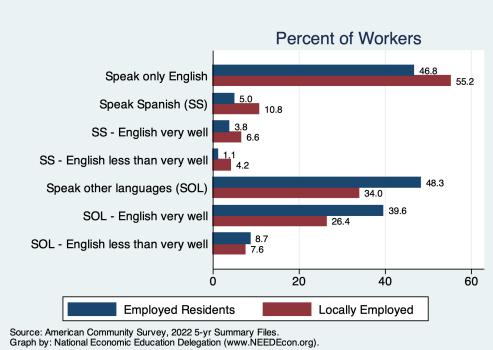


Figure 20: Employment by Occupation

Figure 21: Employment by Industry





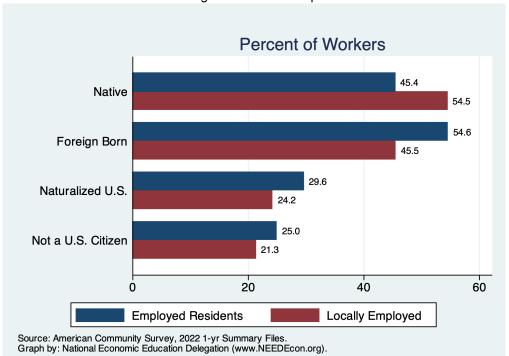


Figure 23: Citizenship

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Figure 22: Language Spoken at Home

Income and Earnings

Per Capita Income Growth

Definition:

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

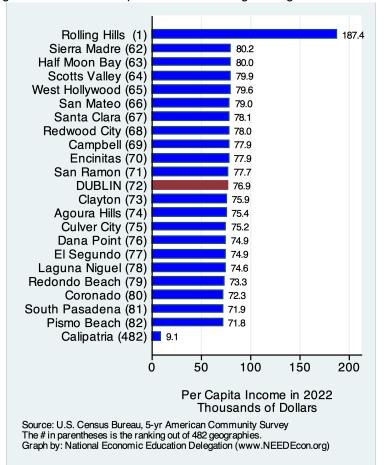


Figure 24: Real Per Capita Income Ranking Among California Cities

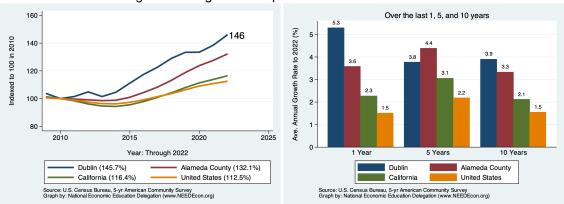
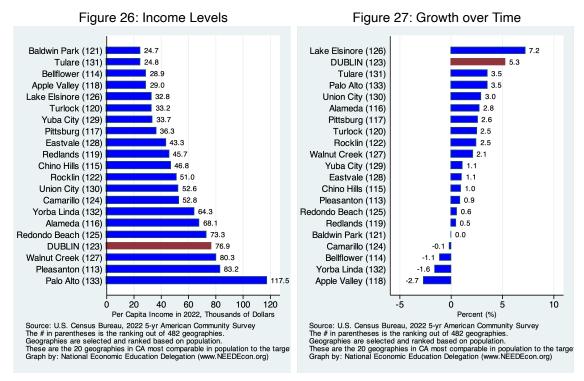
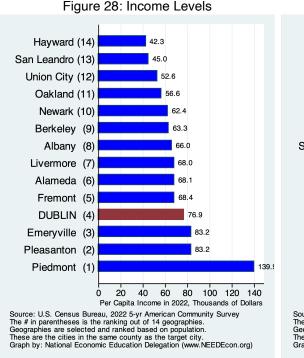


Figure 25: Regional Comparison of Growth over Time







Real Per Capita Income Ranking Among Cities in Alameda County

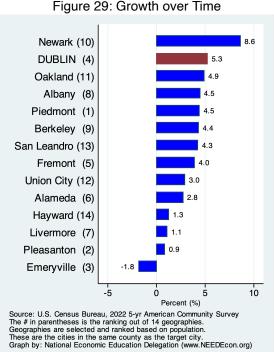
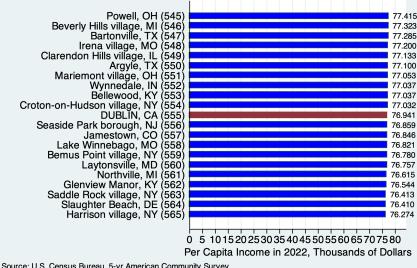


Figure 30: Comparison with All Cities Nationwide



Source: U.S. Census Bureau, 5-yr American Community Survey The # in parentheses is the ranking out of 19,695 geographies. Graph by: National Economic Education Delegation (www.NEEDEcon.org)

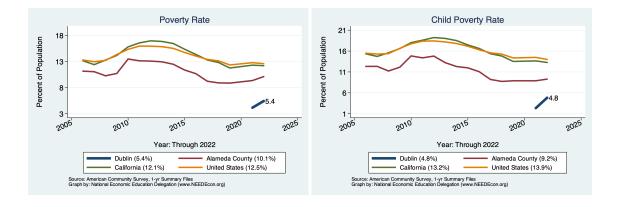
Poverty and Inequality

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.



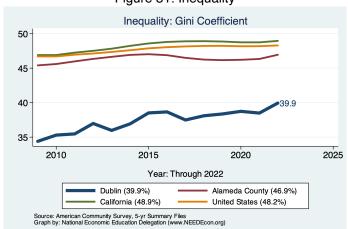
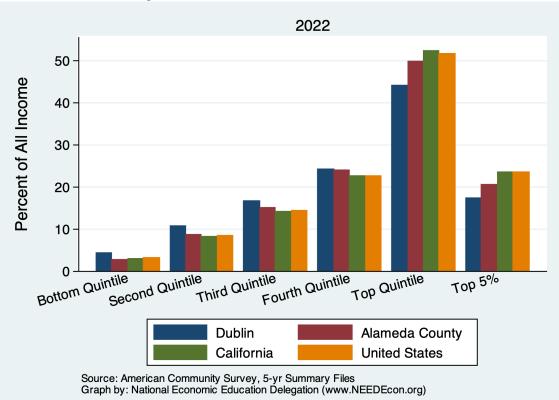
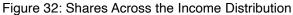
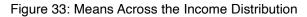
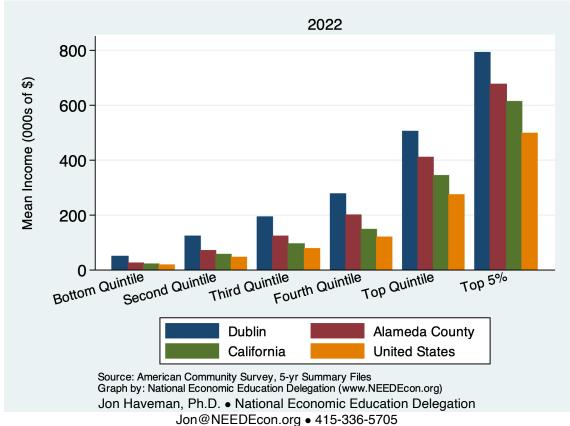


Figure 31: Inequality









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 Dublin and Broader Regions

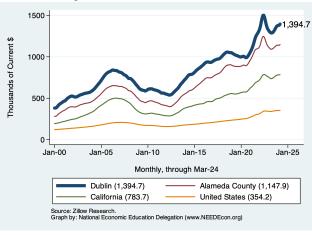
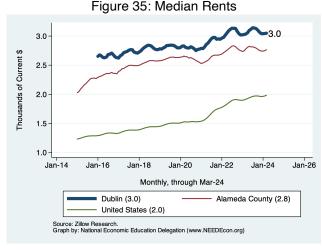
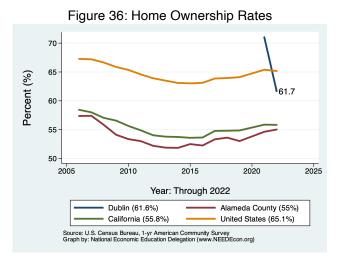
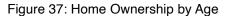


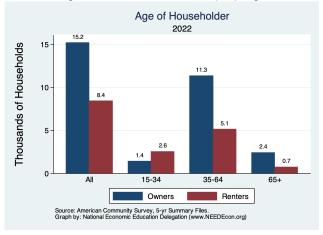
Figure 34: Median Home Prices

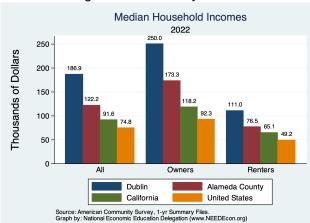




Housing Ownership in Dublin and Broader Regions







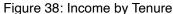
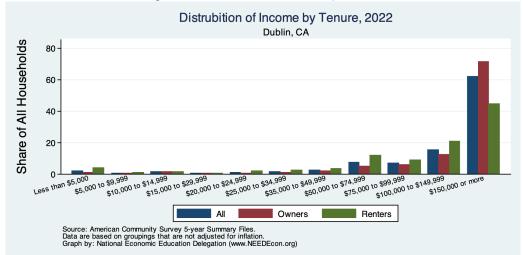
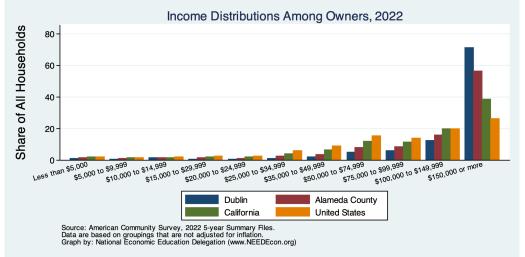
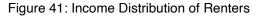


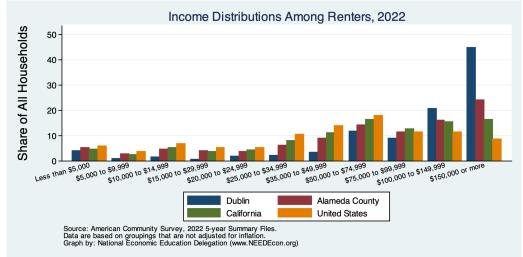
Figure 39: Income Distribution by Tenure

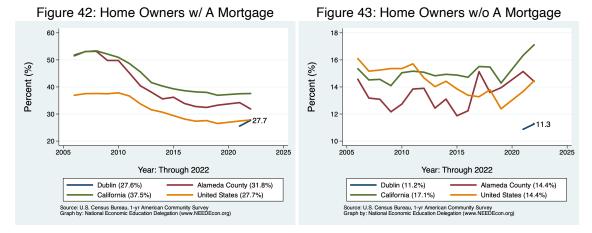






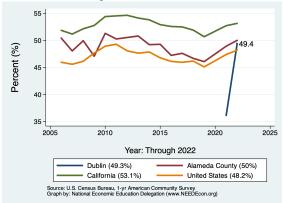




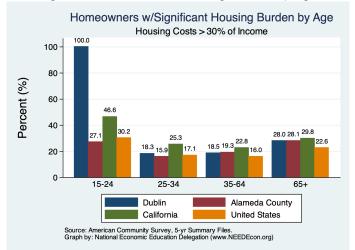


Housing Burden in Dublin and Broader Regions

Figure 44: Renters







Housing Picture

Definition:

Percent Change Since 2010

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

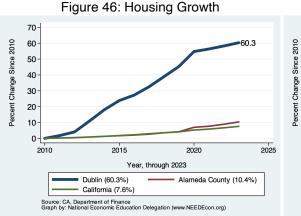
Table 5. Housing Market Indicators

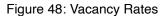
Why is it important?

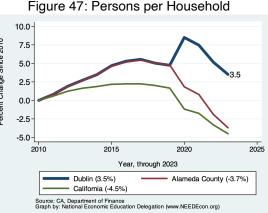
In areas where the rate of population growth exceeds the rate of housing growth, this is likely to reflect a tightening housing market. A tightening housing market will also likely be reflected in lower vacancy rates and higher occupancy rates. It may also be reflected in higher numbers of people per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

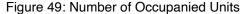
			% Cł	nange from
2023	2019	2010	2019	2010
71,750.0	64,132.0	46,036.0	11.9	55.9
25,304.0	22,950.0	15,782.0	10.3	60.3
24,238.0	21,445.0	14,913.0	13.0	62.5
2.8	2.8	2.7	-1.2	3.5
4.2	6.6	5.5	-35.8	-23.5
	71,750.0 25,304.0 24,238.0 2.8	71,750.0 64,132.0 25,304.0 22,950.0 24,238.0 21,445.0 2.8 2.8 4.2 6.6	71,750.0 64,132.0 46,036.0 25,304.0 22,950.0 15,782.0 24,238.0 21,445.0 14,913.0 2.8 2.8 2.7 4.2 6.6 5.5	2023 2019 2010 2019 71,750.0 64,132.0 46,036.0 11.9 25,304.0 22,950.0 15,782.0 10.3 24,238.0 21,445.0 14,913.0 13.0 2.8 2.8 2.7 -1.2 4.2 6.6 5.5 -35.8

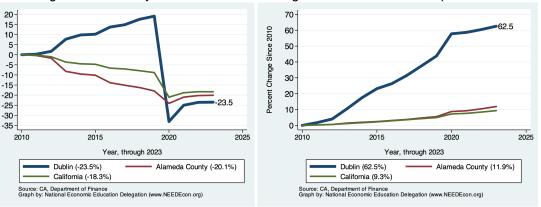
Source: CA DOF; Calculations by the National Economic Education Delegation



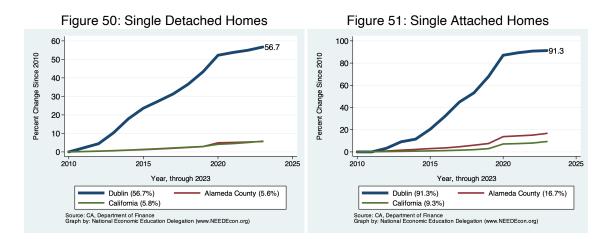


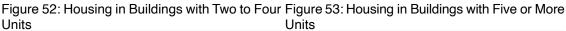


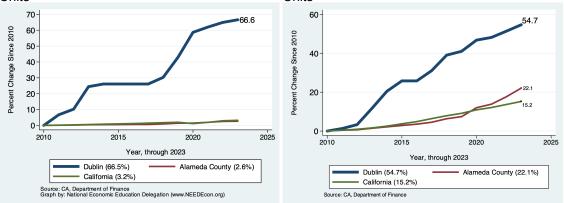












Vintage of Residential Housing

Why is it important?

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

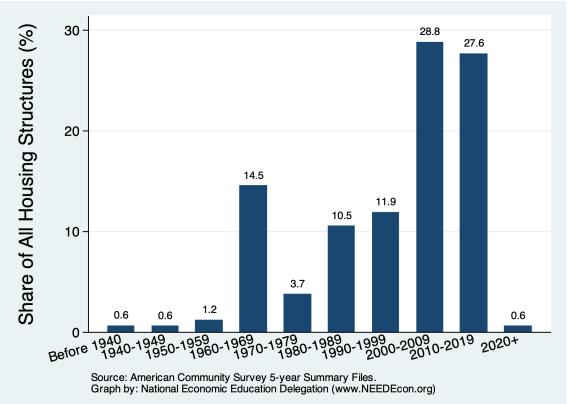
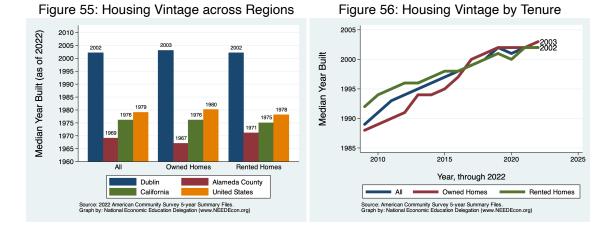
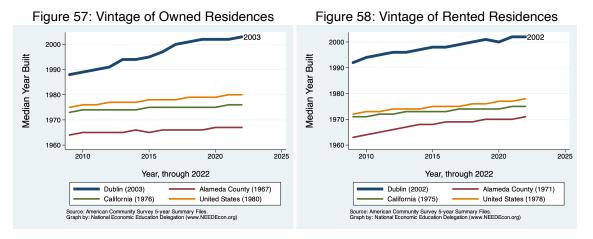
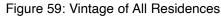
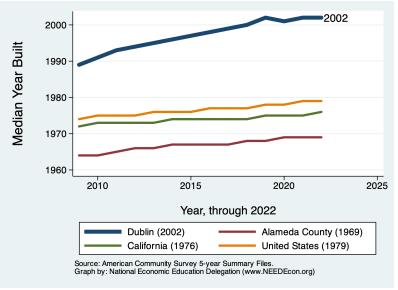


Figure 54: Distribution of Housing Construction









Occupation of Residential Housing

Why is it important?

The duration of residence in a city is important for developing future policies regarding growing the local population. If a region is highly mobile, evidenced by most residences having been recently occupied, a city might propose policies to reduce that mobility, or ask why the mobility happens. Policies could be put in place to either reduce or increase migration.

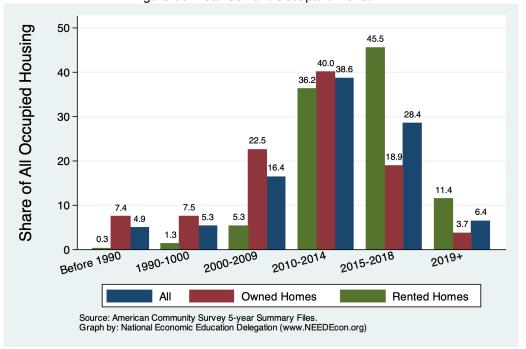


Figure 60: Year Current Occupant Moved In

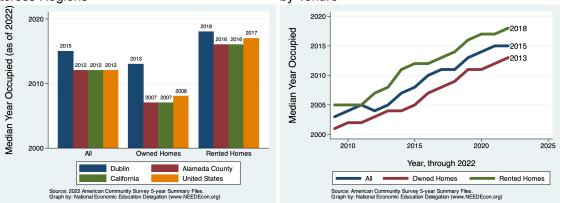


Figure 61: Year Occupied by Current Residents Figure 62: Year Occupied by Current Residents across Regions by Tenure

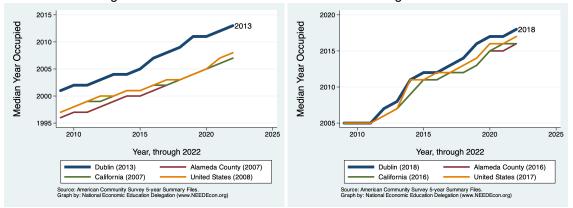
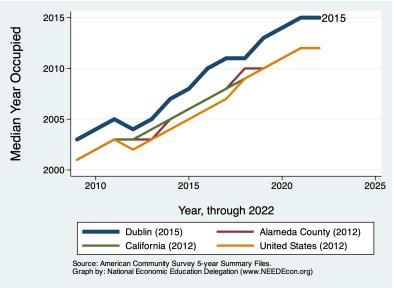


Figure 63: Year Occupied by Current Residents Figure 64: Year Occupied by Current Residents for Owned Housing for Rented Housing





Definition:

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

Dublin - Ranking Among Comparables



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

Source: U.S. Census Bureau

The # in parentheses is the ranking out of 14338 geographies.

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

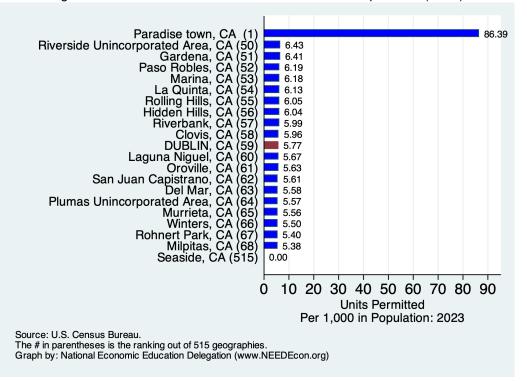


Figure 67: Number of Units Permitted - California Comparables (Rank)

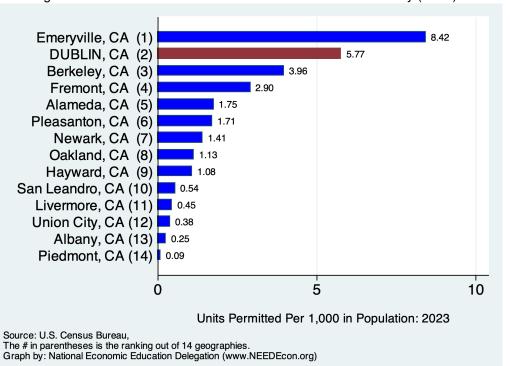
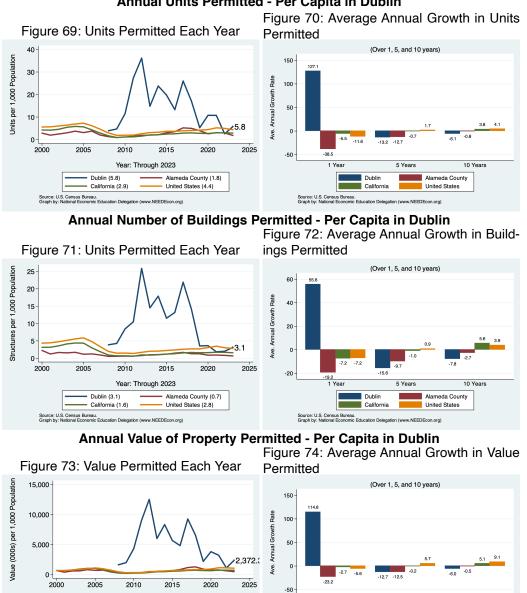


Figure 68: Number of Units Permitted - Cities in Alameda County (Rank)

Dublin - Permitting Activity



Annual Units Permitted - Per Capita in Dublin

1 Year

Source: U.S. Census Bureau. Graph by: National Economic Edu

Dublin

California

5 Years

10 Years

Alameda County

United States

Year: Through 2023

n (www.NEEDE

Alameda County (481.0)

- United States (1056.9)

Dublin (2372.3)

Source: U.S. Census Bureau. Graph by: National Economic Education De

California (708.2)

Commute Patterns

During the recovery from the Great Recession, the period from 2010 to 2019, the Bay Area economy, and Silicon Valley in particular, has been growing at a pace roughly double that of the state as a whole and triple that of the nation. This growth has precipitated a tight housing market and also brought about some significant changes in commute patterns, many of which have been reversed by the pandemic. Recent years have seen significant changes in both the mode of transportation and commute times.

Mode of Transportation

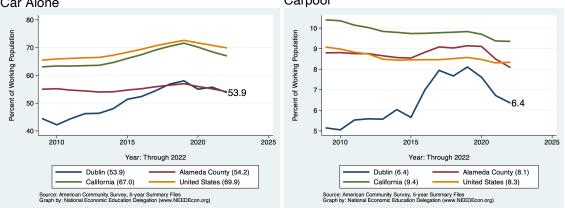
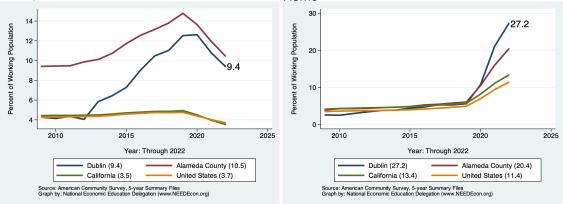


Figure 75: Percent of Workers Commuting by Figure 76: Percent of Workers Commuting by Carpool

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



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

	Male		Fen	Female		orkers	All of CA	
Mode of Transit	#	(%)	#	(%)	#	(%)	(%)	
Car, Truck, or Van:	12, 119	61.0	9,343	59.3	21,462	60.3	78.0	
Drove Alone	11,071	55.8	8,123	51.6	19,194	53.9	68.4	
Carpooled:	1,048	5.3	1,220	7.7	2,268	6.4	9.5	
In 2-person carpool	809	4.1	1,022	6.5	1,831	5.1	6.9	
In 3-person carpool	98	0.5	153	1.0	251	0.7	1.5	
In 4-or-more-person carpool	141	0.7	45	0.3	186	0.5	1.1	
Public Transportation (excl Taxi):	2,093	10.5	1,258	8.0	3,351	9.4	3.6	
Bus or Trolley Bus	352	1.8	177	1.1	529	1.5	2.3	
Streetcar or Trolley Car	1,085	5.5	826	5.2	1,911	5.4	0.8	
Subway or Elevated	470	2.4	203	1.3	673	1.9	0.3	
Railroad	186	0.9	45	0.3	231	0.6	0.2	
Ferryboat	0	0.0	7	0.0	7	0.0	0.1	
Bicycle	32	0.2	85	0.5	117	0.3	0.7	
Walked	383	1.9	149	0.9	532	1.5	2.4	
Taxicab, Motorcycle, or other	273	1.4	175	1.1	448	1.3	1.7	
Worked at Home	4,952	24.9	4,746	30.1	9,698	27.2	13.6	
Total:	19,852	100.0	15,756	100.0	35,608	100.0		

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

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

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

	Ма	ale	Fen	nale	All W	orkers	All of CA
Mode of Transit	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van:	9,729	63.3	8,620	62.1	18,349	62.7	78.0
Drove Alone	8,679	56.4	7,371	53.1	16,050	54.8	68.5
Carpooled:	1,050	6.8	1,249	9.0	2,299	7.9	9.5
In 2-person carpool	885	5.8	935	6.7	1,820	6.2	6.9
In 3-person carpool	88	0.6	265	1.9	353	1.2	1.5
In 4-or-more-person carpool	77	0.5	49	0.4	126	0.4	1.1
Public Transportation (excl Taxi):	116	0.8	189	1.4	305	1.0	3.6
Bus or Trolley Bus	45	0.3	19	0.1	64	0.2	2.3
Streetcar or Trolley Car	19	0.1	170	1.2	189	0.6	0.8
Subway or Elevated	52	0.3	0	0.0	52	0.2	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	58	0.4	111	0.8	169	0.6	0.7
Walked	277	1.8	142	1.0	419	1.4	2.4
Taxicab, Motorcycle, or other	244	1.6	84	0.6	328	1.1	1.7
Worked at Home	4,952	32.2	4,746	34.2	9,698	33.1	13.6
Total:	15,376	100.0	13,892	100.0	29,268	100.0	

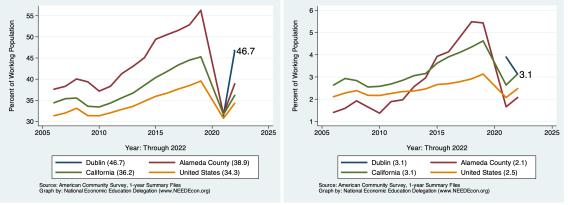
Source: 2022 5-year American Community Survey, Summary File The results in this table are for those who work in the region, regardless of the location of their residence.

Commute Times for Employed Residents

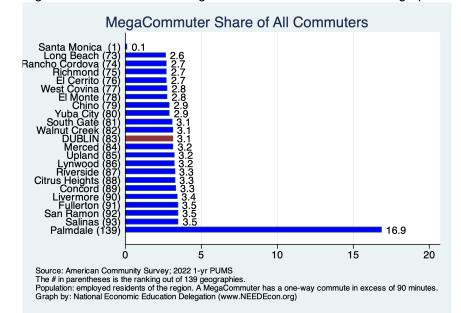
Table 8. SEX OF WORKERS BY TRAVEL TIME TO WORK										
	Mal	е	Fem	ale	All Wo	All Workers				
Mode of Transit	#	(%)	#	(%)	#	(%)	(%)			
Less than 5 minutes	0	0.0	77	0.6	77	0.3	2.1			
5 to 9 minutes	805	4.8	1,302	10.9	2,107	7.3	7.8			
10 to 14 minutes	1,778	10.6	1,399	11.7	3,177	11.1	12.4			
15 to 19 minutes	839	5.0	1,885	15.7	2,724	9.5	15.4			
20 to 24 minutes	739	4.4	517	4.3	1,256	4.4	14.8			
25 to 29 minutes	345	2.1	651	5.4	996	3.5	6.4			
30 to 34 minutes	1,769	10.6	1,366	11.4	3,135	10.9	15.2			
35 to 39 minutes	501	3.0	259	2.2	760	2.6	2.9			
40 to 44 minutes	829	5.0	623	5.2	1,452	5.1	4.1			
45 to 59 minutes	2,718	16.2	1,107	9.2	3,825	13.3	8.2			
60 to 89 minutes	2,450	14.6	899	7.5	3,349	11.7	7.2			
90 or more minutes	497	3.0	401	3.3	898	3.1	3.6			
Total:	13,270	79.3	10,486	87.5	23,756	82.7				

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









Commute Times for Those Employed in the City

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

WURKFLAU		AFIT						
	Male		Fem	ale	All Wo	All Workers		
Mode of Transit	#	(%)	#	(%)	#	(%)	(%)	
Less than 5 minutes	202	1.7	224	2.1	426	1.9	2.1	
5 to 9 minutes	946	8.2	975	9.3	1,921	8.8	7.8	
10 to 14 minutes	1,001	8.7	1,570	15.1	2,571	11.7	12.4	
15 to 19 minutes	1,630	14.1	1,461	14.0	3,091	14.1	15.3	
20 to 24 minutes	1,679	14.5	1,864	17.9	3,543	16.2	14.8	
25 to 29 minutes	600	5.2	545	5.2	1,145	5.2	6.4	
30 to 34 minutes	1,993	17.2	1,311	12.6	3,304	15.1	15.2	
35 to 39 minutes	233	2.0	122	1.2	355	1.6	2.9	
40 to 44 minutes	550	4.8	384	3.7	934	4.3	4.1	
45 to 59 minutes	1,270	11.0	907	8.7	2,177	9.9	8.2	
60 to 89 minutes	1,188	10.3	799	7.7	1,987	9.1	7.2	
90 or more minutes	267	2.3	202	1.9	469	2.1	3.6	
Total:	11,559	100.0	10,364	99.4	21,923	100.0		

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

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

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

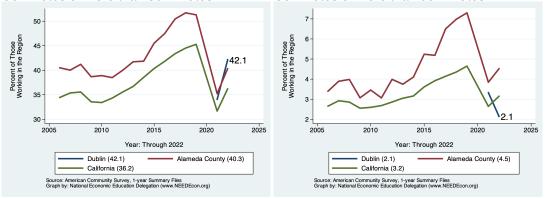
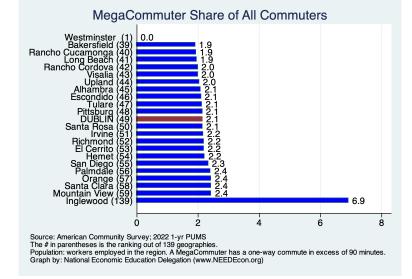


Figure 84: Rank: Share of MegaCommuters Across Similar Geographies



Place of Work

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

	Male		Female		All Workers		All of CA
Place of Work	#	(%)	#	(%)	#	(%)	(%)
Worked in state of residence:	21,093	99.4	16,775	100.0	37,868	99.7	99.6
Worked in county of residence	14,395	67.8	13,460	80.2	27,855	73.3	85.3
worked outside of county of residence	6,698	31.6	3,315	19.8	10,013	26.4	14.3
Worked outside state of residence	132	0.6	0	0.0	132	0.3	0.4
Total:	21,225	100.0	16,775	100.0	38,000	100.0	

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

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

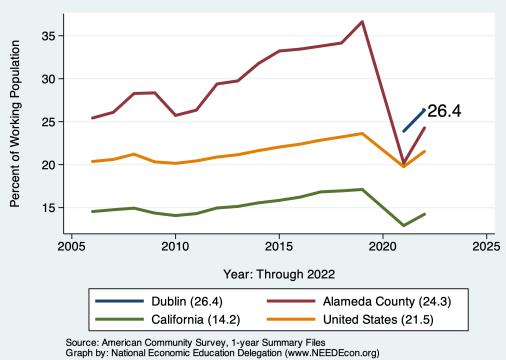


Figure 85: Percent of Workers Employed Outside of Their County of Residence

	Male		Female		All Workers		All of CA
Place of Work	#	(%)	#	(%)	#	(%)	(%)
Living in a place:	21,225	100.0	16,775	100.0	38,000	100.0	95.8
Worked in place of residence	10,004	47.1	8,123	48.4	18, 127	47.7	42.3
Worked outside place of residence	11,221	52.9	8,652	51.6	19,873	52.3	53.4
Not living in a place	0	0.0	0	0.0	0	0.0	4.2
Total:	21, 225	100.0	16,775	100.0	38,000	100.0	

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

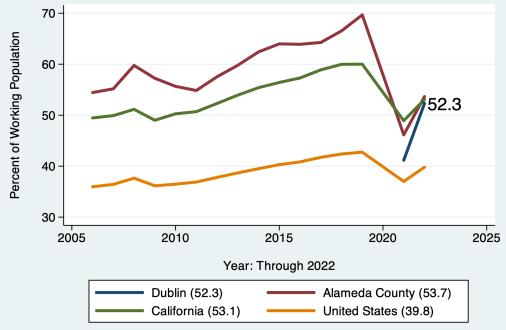


Figure 86: Percent of Workers Employed Outside of Their Place of Residence

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

Commute Mode by Income

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

	City	California		United Sta	tes
	Median	Median	Ratio	Median	Ratio
Car, truck, or van - drove alone	97,223	48,335	89.3	45,677	88.0
Car, truck, or van - carpooled	66,519	35,926	82.2	34,518	79.6
Public transportation (excluding taxicab)	120,666	34,625	154.7	41,443	120.3
Walked	25,286	30,552	36.7	27,247	38.3
Taxicab, motorcycle, bicycle, or other means	96,916	40,631	105.9	36,218	110.6
Worked from home	151,786	79,738	84.5	69,180	90.7
Total:	112,200	49,818	225.2	46,365	242.0

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

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

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

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

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

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

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

	< \$25	5,000	\$25,000	-\$74,999	\$75,0	00+	Al		All of CA
Mode of Transit	#	(%)	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van: Drove Alone	2,609	54.5	3,809	50.4	11,691	49.6	19, 194	53.9	68.4
Car, Truck, or Van: Carpooled	482	10.1	514	6.8	1,125	4.8	2,268	6.4	9.5
Public Transportation (excl Taxi)	153	3.2	589	7.8	2,501	10.6	3,351	9.4	3.6
Walked	130	2.7	25	0.3	311	1.3	532	1.5	2.4
Taxicab, Motorcycle, or other	56	1.2	125	1.7	384	1.6	565	1.6	2.4
Worked at Home	819	17.1	1,154	15.3	7,564	32.1	9,698	27.2	13.6
Total:	4,249	88.7	6,216	82.2	23,576		35,608		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	00+	Al	I	All of CA
Mode of Transit	#	(%)	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van: Drove Alone	3,530	51.9	5,174	64.5	5,929	40.4	16,050	54.8	68.5
Car, Truck, or Van: Carpooled	965	14.2	426	5.3	604	4.1	2,299	7.9	9.5
Public Transportation (excl Taxi)	123	1.8	33	0.4	149	1.0	305	1.0	3.6
Walked	154	2.3	23	0.3	178	1.2	419	1.4	2.4
Taxicab, Motorcycle, or other	132	1.9	81	1.0	259	1.8	497	1.7	2.4
Worked at Home	819	12.0	1,154	14.4	7,564	51.5	9,698	33.1	13.6
Total:	5,723	84.2	6,891	85.9	14,683		29,268		

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

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

Commute Mode by Poverty Status

Table 15. MODE OF TRANSPORTATION TO WORK BY POVERTY STATUS

	In Po	overty	100-14	9% of Pov	>150%	of Pov	Al	I	All of CA
Mode of Transit	#	(%)	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van: Drove Alone	217	37.4	221	38.8	18,756	54.0	19, 194	54.1	68.7
Car, Truck, or Van: Carpooled	41	7.1	23	4.0	2,204	6.3	2,268	6.4	9.5
Public Transportation (excl Taxi)	62	10.7	10	1.8	3,279	9.4	3,351	9.4	3.6
Walked	27	4.7	0	0.0	407	1.2	434	1.2	2.1
Taxicab, Motorcycle, or other	30	5.2	0	0.0	535	1.5	565	1.6	2.4
Worked at Home	61	10.5	95	16.7	9,542	27.5	9,698	27.3	13.6
Total:	438	75.5	349	61.3	34,723		35,510		

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

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

	In P	overty	100-14	19% of Pov	>150%	of Pov	Al		All of CA
Mode of Transit	#	(%)	#	(%)	#	(%)	#	(%)	(%)
Car, Truck, or Van: Drove Alone	525	54.8	354	38.4	15, 171	54.4	16,050	55.1	68.7
Car, Truck, or Van: Carpooled	67	7.0	45	4.9	2,187	7.8	2,299	7.9	9.5
Public Transportation (excl Taxi)	9	0.9	43	4.7	234	0.8	286	1.0	3.6
Walked	11	1.1	21	2.3	289	1.0	321	1.1	2.1
Taxicab, Motorcycle, or other	11	1.1	23	2.5	463	1.7	497	1.7	2.4
Worked at Home	61	6.4	95	10.3	9,542	34.2	9,698	33.3	13.6
Total:	684	71.4	581	63.1	27,886		29,151		

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

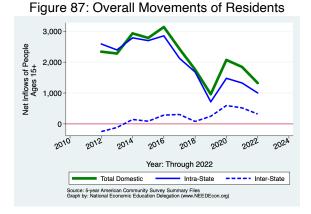


Table 17: Migration by Income

		Net Inflows							
			Same State						
Ostana	Develotion		W/in	Between	Across	From			
Category	Population	All Migration	County	Counties	States	Abroad			
No income	9,134	201	368	-381	37	177			
With income	45,987	1,445	1,257	-241	284	145			
\$1 to \$9,999 or loss	5,070	-87	73	-149	-24	13			
\$10,000 to \$14,999	2,254	-48	13	-25	-36	0			
\$15,000 to \$24,999	2,526	-11	9	69	-97	8			
\$25,000 to \$34,999	2,056	2	13	-111	90	10			
\$35,000 to \$49,999	2,875	287	159	21	92	15			
\$50,000 to \$64,999	2,939	54	54	-135	119	16			
\$65,000 to \$74,999	2,417	157	299	-103	-51	12			
\$75,000 or more	25,850	1,091	637	192	191	71			
All:	55, 121	1,646	1,625	-622	321	322			

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.

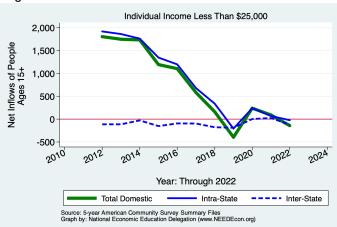
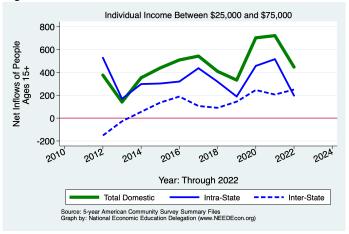
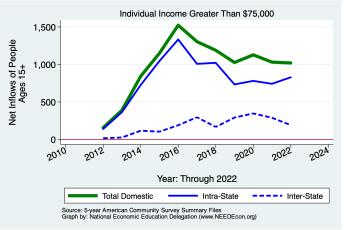


Figure 88: Overall Movements of Low Income Residents

Figure 89: Overall Movements of Middle Income Residents









Demographics of Migration Flows

Table 18: Migration by Marital Status

		Ν	et Inflows			_	
			Same	e State		-	
Category	Population	All Migration	W/in County	Between Counties	Across States	From Abroad	
Never married	14,409	454	429	-260	186	99	
Now married, except separated	33,928	1,247	980	-89	149	207	
Divorced	4,324	51	258	-229	22	0	
Separated	579	-118	-54	-55	-9	0	
Widowed	1,881	12	12	11	-27	16	
Total:	55, 121	1,646	1,625	-622	321	322	

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

Table 19: Migration by Tenure

	Net Inflows					
			Sam	e State		-
Category	Population	All Migration	W/in County	Between Counties	Across States	From Abroad
Householder lived in owner-occupied housing units	45,748	-1,892	772	-2,026	-758	120
Householder lived in renter-occupied housing units	22,039	1,415	623	292	-24	524
Total:	67,787	-477	1,395	-1,734	-782	644

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

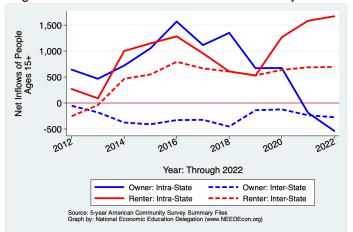


Figure 91: Domestic Movements of Residents by Tenure

Table 20: Migration	by Age
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		Net Inflows				
			Same State			-
			W/in	Between	Across	From
Category	Population	All Migration	County	Counties	States	Abroad
1 to 4 years	4,380	123	41	-51	83	50
5 to 17 years	13,536	-50	120	-224	-53	107
18 and 19 years	981	-379	-13	-150	-226	10
20 to 24 years	2,917	461	174	-100	367	20
25 to 29 years	4,533	721	439	103	134	45
30 to 34 years	5,496	447	99	130	182	36
35 to 39 years	7,722	358	359	-58	2	55
40 to 44 years	7,480	21	169	-142	-34	28
45 to 49 years	5,934	-184	44	-107	-128	7
50 to 54 years	4,440	45	-24	-28	90	7
55 to 59 years	3,338	31	115	-93	-2	11
60 to 64 years	2,902	-64	77	-67	-74	0
65 to 69 years	2,587	121	144	-52	13	16
70 to 74 years	1,911	32	6	-70	33	63
75 years and over	2,308	$^{-8}$	6	29	-43	0
Total Population:	70,465	1,675	1,756	-880	344	455

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

Table 21: Migration by Educational Attainment

	Net Inflows					
		Sar		e State		
Category	Population	All Migration	W/in County	Between Counties	Across States	From Abroad
Less than high school graduate	2,260	198	51	-2	101	48
High school graduate (includes equiv)	4,727	-100	94	-189	-49	44
Some college or assoc. degree	8,151	-43	182	-178	-47	0
Bachelor's degree	18,463	597	722	-286	32	129
Graduate or professional degree	15,050	868	385	300	136	47
Total:	48,651	1,520	1,434	-355	173	268

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

Table 22: Median Income of Migration Flows

In-Migration	Out-Migration
101,943	101,943
100, 203	138,229
81,845	68,002
61,078	51,621
61,884	
96,383	98,510
	101, 943 100, 203 81, 845 61, 078 61, 884

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

Table 23: Median Age of Migration Flows

Flow	In-Migration	Out-Migration
Same House 1 Year Ago	40.1	40.1
Moved Within Same County	34.3	32.6
Moved to Different County, Same State	35.1	31.8
Moved Between States	29.0	31.8
Moved from Abroad	34.7	
Total Population:	38.9	38.9

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

References and Sources

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

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

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

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