

UC Berkeley

Recent Work

Title

The state of working East Bay, 2015-2019

Permalink

<https://escholarship.org/uc/item/6hq4m4sw>

Authors

Hunter, Savannah
Vasquez, Vivian
Lopezlira, Enrique
et al.

Publication Date

2023-05-30

THE STATE OF WORKING EAST BAY, 2015-2019



MAY 2023

UC BERKELEY
LABOR
CENTER

**Savannah Hunter, Vivian Vázquez,
Enrique Lopezlira, and Ken Jacobs**

Acknowledgments

Thank you to the following individuals for their support with this project: Kuochih Huang and Aida Farmand for support with research; Julie Light, Jenifer MacGillvary, and Sandy Olgeirson from the Labor Center communications team for their support with framing, editing, copywriting, and layout; and Kate O’Hara, Kristi Laughlin, and Isaiah Toney from the East Bay Alliance for a Sustainable Economy for their support with framing and thoughtful questions and feedback.

About the authors

Savannah Hunter is a research and policy associate with the Low-Wage Work program at the UC Berkeley Labor Center. Vivian Vázquez is a masters degree candidate at the Goldman School of Public Policy at UC Berkeley and a graduate student researcher with the Low-Wage Work program at the UC Berkeley Labor Center. Enrique Lopezlira is the director of the Low-Wage Work program at the UC Berkeley Labor Center. Ken Jacobs is chair of the UC Berkeley Labor Center.

Suggested citation

Hunter, Savannah, Vivian Vázquez, Enrique Lopezlira and Ken Jacobs. “The State of Working East Bay, 2015-2019.” UC Berkeley Labor Center, May 2023. <https://laborcenter.berkeley.edu/state-of-working-east-bay-2015-2019/>

Executive summary

This report examines the state of work in the East Bay prior to the COVID-19 pandemic.¹ We find that even before the pandemic, when the economy was strong by conventional economic metrics and had recovered from the Great Recession, many East Bay workers were earning low wages, housing cost-burdened, and struggling to make ends meet, with workers of color in particular making wages too low to support themselves and their families. The report shows that a return to a pre-pandemic economy is not enough to sustain many East Bay workers and their families. Black and Hispanic workers in particular fared worse than all workers in nearly every metric. Major findings include:

- One in four East Bay workers earned low wages. That is, they earned less than two-thirds of the median full-time hourly wage compared to all workers in the state. However, over a third of Hispanic and Black workers earned low wages.
- One-fifth of Hispanic workers and 17% of Black workers lived in “near poverty”—that is, in families earning 200% or less of the federal poverty threshold based on their family size—compared to 12% of all East Bay workers. Most workers in or near poverty worked all year and over half worked full-time.
- East Bay workers struggled with self-sufficiency. Two out of three Black workers, three out of four Hispanic workers, and one in two Asian or Pacific Islander workers earned an hourly wage too low to support a family of two children and two working adults, even when assuming a partner worked full-time and earned the same wage. Overall, more than half of East Bay workers earned wages too low to support a family.
- Over one-third of East Bay workers were housing cost-burdened. Workers of color and those with lower household incomes struggled with paying too much on rent. Workers in lower-income households in particular saw a dramatic increase in the share of income spent on rent between 2015 and 2019.

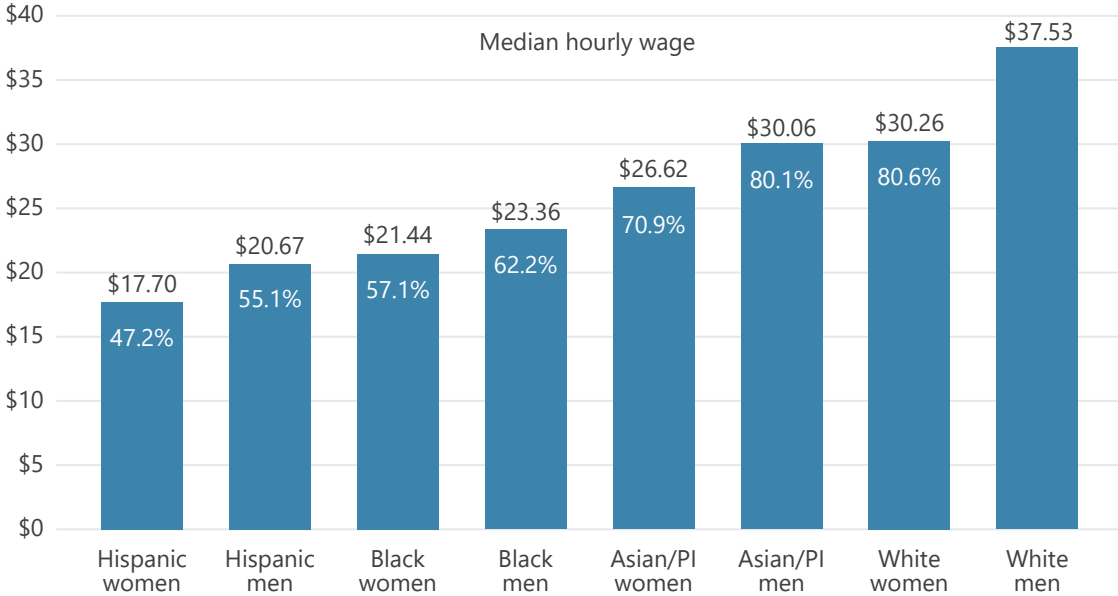
Earnings, income, and poverty

This report updates the analyses in the report “The State of Work in the East Bay and Oakland,”² authored by the East Bay Alliance for a Sustainable Economy in 2012.³ That report documented that East Bay workers were struggling with low wages, poverty, and growing inequality due to the Great Recession. We examine the state of work in the East Bay during 2015 to 2019, a time of economic growth and perceived prosperity.⁴ Our findings do not agree with these perceptions. We find that East Bay workers earned low wages, were housing cost-burdened, and struggled with self-sufficiency during this period.

We use data from the American Community Survey restricted to workers employed at least half the year and at least 10 hours a week,⁵ we find that during the years 2015 to 2019 East Bay workers' median annual earnings from employment were \$53,672.81, with a median hourly wage of \$26.34 and an average hourly wage of \$33.81. However, there were stark disparities in earnings between racial and ethnic groups (see Exhibit 1).⁶ For example, Hispanic women earned a median hourly wage of \$17.70 compared to \$37.53 for white men.⁷ This represents a wage gap of 47.2%, indicating the median Hispanic woman earned less than half that of the median white man. For Black men (\$23.36) and Black women (\$21.44), their median hourly wage was less than two-thirds that of the median for white men. Asian and Pacific Islander women's median hourly wage (\$26.62) was 70.9% that of the median for white men. Although median hourly wages, both overall and for different racial/ethnic groups, were higher than the 2019 state minimum wage (\$12 an hour) and local minimum wages in the East Bay (\$13.50 in Alameda County, \$13.80 in Oakland, \$15.00 in Richmond, \$15.59 in Berkeley, and \$16.30 in Emeryville⁸), the exorbitant cost of living in the Bay Area made it challenging for workers to make ends meet, especially workers of color and their families.

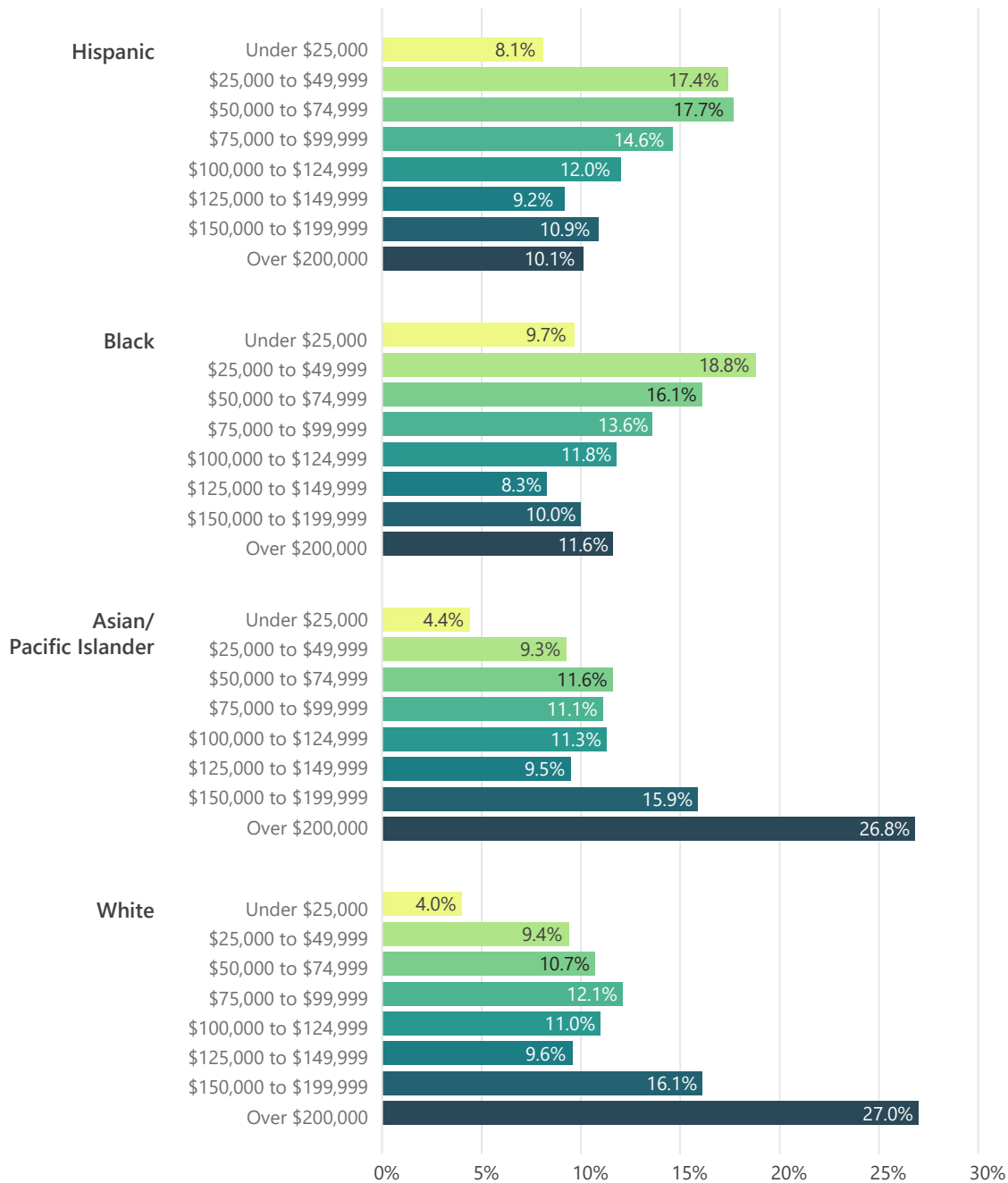
Additionally, there were striking disparities in total household income by race and ethnicity (see Exhibit 2). Over a quarter of white (27.0%) and Asian/Pacific Islander (26.8%) workers had household incomes over \$200,000 annually, double the percentage of Hispanic (10.1%) and Black (11.6%) workers. At the lower end of the distribution, the percentage of Black (9.7%) and Hispanic (8.1%) workers with the lowest levels of household income (under \$25,000) was double that of Asian/Pacific Islander (4.4%) and white (4.0%) workers.

Exhibit 1. Median hourly wage by race/ethnicity, in 2019 dollars and with wage gap



Source: Labor Center analysis of the U.S. Census Bureau's 2019 American Community Survey 5-year Sample.

Exhibit 2. East Bay household income by race/ethnicity, in 2019 dollars



Source: Labor Center analysis of the U.S. Census Bureau's 2019 American Community Survey 5-year Sample.

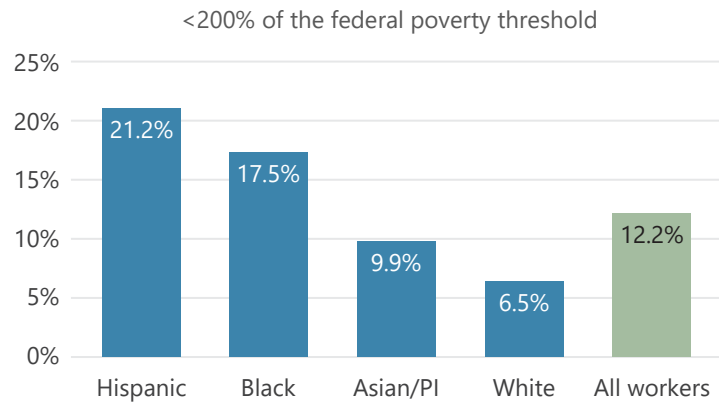
Earnings and income in context

We used several different methods to analyze the economic well-being of East Bay workers. A widely used measure established by the U.S. government is the federal poverty threshold. Using this measure, we find 12.2% of East Bay workers lived in “near poverty”—that is, in families earning 200% or less of the federal poverty threshold based on their family size. However, the percentage of East Bay Hispanic workers near poverty was almost double at 21.2% (see Exhibit 3). Low wages are an important explanation for near poverty status in the East Bay. Those living near poverty averaged an hourly wage of \$12.47 but worked on average 35 hours a week (median was 40 hours a week) and over 80% worked all year long.

Another way to analyze how East Bay workers were faring economically is to estimate the size of the low-wage worker population. We define a “low-wage worker” as someone earning two-thirds or less of California’s median full-time wage, which in 2019 was \$16.05.⁹ Using this definition, we find that 26.0% of East Bay workers were low-wage earners. However, again there were stark racial, ethnic, and gender disparities (see Exhibit 4). Overall, 38.7% of Hispanics earned low wages. Broken down by gender, 44.3% of Hispanic women earned low wages compared to 34.8% of Hispanic men. Additionally, a third of Black workers (33.9% of Black women and 31.9% of Black men) and around one in four Asian/Pacific Islander workers (26.0% of Asian/Pacific Islander women and 21.9% of Asian/Pacific Islander men) earned low-wages compared to about one in six white workers (19.7% white women earned low wages compared to 14.7% of white men).

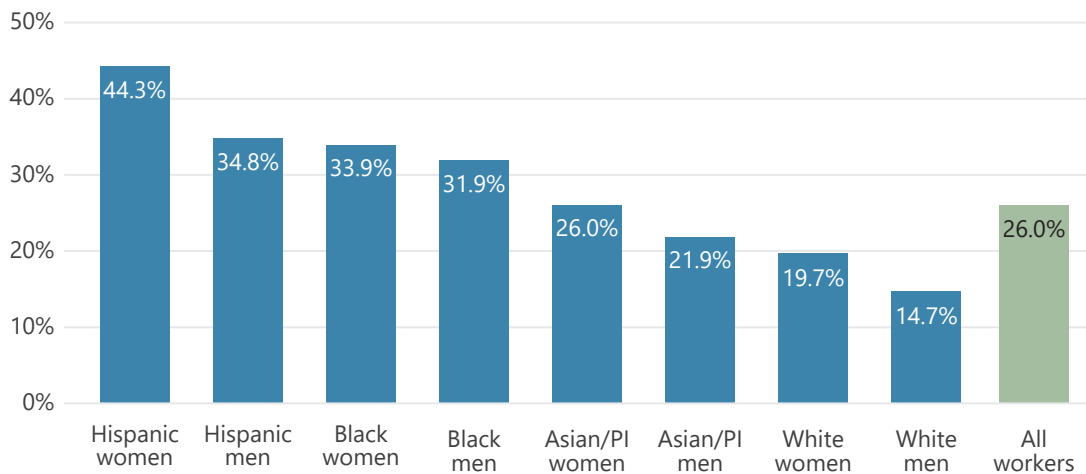
The previous two measures provide some utility for assessing the economic wellbeing of workers, but they do not fully account for the costs of living and therefore underestimate how many workers struggle to make ends meet. The MIT Living Wage Calculator,¹⁰ offers state- and county-level estimates of the wages a worker would require to meet their family’s basic needs where they live. For example, a single adult working full time in Alameda or Contra Costa would need to earn \$21.75 (in 2019 dollars) to make ends meet and a family of two full-time working adults with two children would each need to make at least \$30 an hour. Using this calculator, we estimate that 40.2% of East Bay workers or around 362,500 workers earned a wage too low for a single full-time working adult to support themselves (see Exhibit 5). For working adults with children in the East Bay, the situation was more dire—around 75% and 85% of workers earned an hourly wage too low for a single parent to support one child or two children, respectively. More than half (57.0%) of East Bay workers or around half a million earned too low a wage to support a family of two adults and two children, even with a partner working full time. Our analysis once again shows racial and ethnic disparities (see Exhibit 6). More than half of Asian/Pacific Islander workers (53.4%), over two-thirds of Black workers (68.5%), and three-quarters of Hispanic workers (76.2%) earned wages too low to support a family of two working adults and two children.

Exhibit 3. Percent of East Bay workers in families earning less than 200% of the federal poverty threshold by race/ethnicity



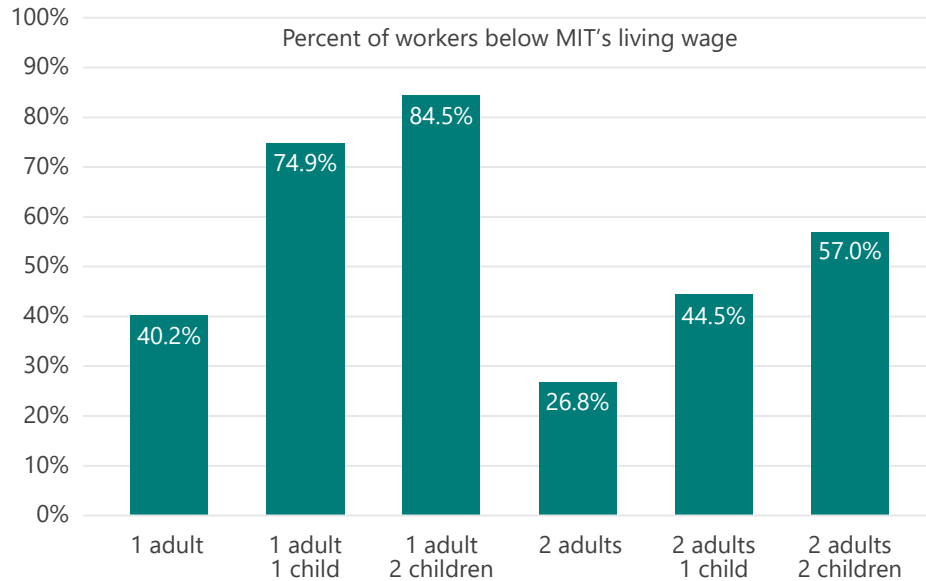
Source: Labor Center analysis of the U.S. Census Bureau’s 2019 American Community Survey 5-year Sample.

Exhibit 4. Percent of East Bay workers earning low wages by race/ethnicity



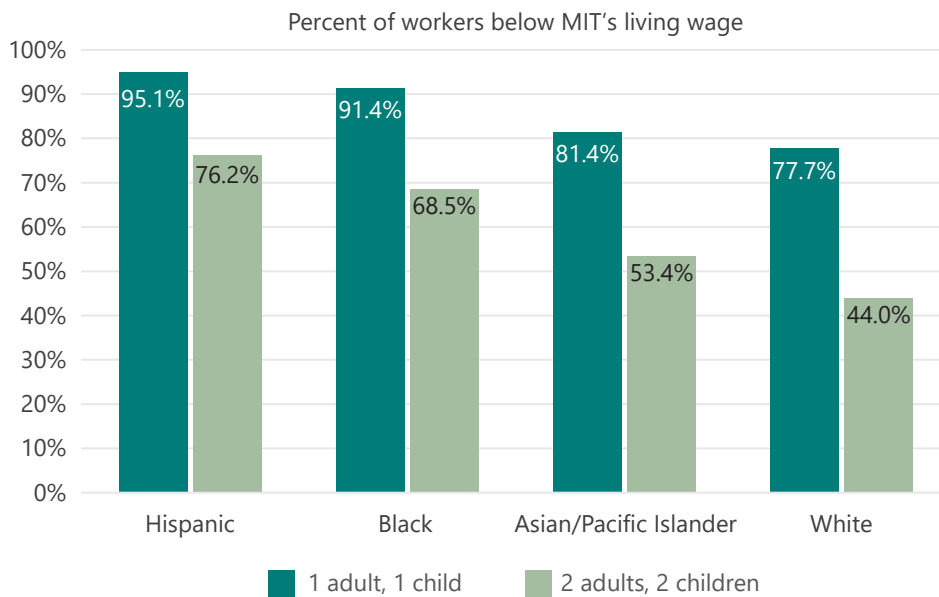
Source: Labor Center analysis of the U.S. Census Bureau’s 2019 American Community Survey 5-year Sample.

Exhibit 5. Percent of East Bay workers making hourly wages too low to support various family sizes



Source: Labor Center analysis of the U.S. Census Bureau's 2019 American Community Survey 5-year Sample.
 Note: Analysis includes a single adult supporting up to two children and two working adults supporting up to two children.

Exhibit 6. Percent of East Bay workers making hourly wages too low to support a family, by race/ethnicity



Source: Labor Center analysis of the U.S. Census Bureau's 2019 American Community Survey 5-year Sample.
 Note: Analysis includes a single adult supporting up to two children and two working adults supporting up to two children.

Low-wage industries and occupations

We examined the concentration of low-wage workers by industry and occupation (see Exhibits 7 and 8). Workers earning less than two-thirds of California’s median full-time wage (\$16.05 in 2019 dollars) were employed in all major industries in the East Bay, but were particularly concentrated in retail trade, accommodation and food services, and health care and social assistance (Exhibit 7). These three industries employ 30% of all workers, but account for almost half of all employed low-wage workers. As seen in Exhibit 8, top occupations for low-wage workers were sales and related, office and administrative support, food preparation and serving related, material moving, and healthcare support. These five occupations employ about a third of East Bay workers but account for half of all employed low-wage workers.

Hispanic, Black, and Asian/Pacific Islander workers tended to be overrepresented in low-wage occupations relative to their proportion in the workforce overall (see Exhibits 9 and 10). Hispanic workers and women were overrepresented in low-wage food preparation and serving occupations. Hispanic, Black, Asian/Pacific Islander, and women were overrepresented in low-wage health care support occupations. Hispanic workers were overrepresented in low-wage building and grounds cleaning and maintenance occupations. Asian/Pacific Islander workers and women were overrepresented in low-wage personal care and service occupations.

Occupational segregation refers to the unequal distribution of workers into occupations based on race, ethnicity, sex, immigration status, and other social characteristics.¹¹ It is a product of biased social norms, limited social networks, reduced educational opportunities, systematic exclusion, and discrimination. The continuing existence of occupational segregation helps explain disparities in earnings among racial, ethnic, and gender groups such as those seen in this report.

Exhibit 7. Top 10 industries employing low-wage workers in the East Bay

Industry	Median hourly wage*	Share of ALL East Bay workers employed in the industry	Share of LOW-WAGE East Bay workers employed in the industry
Retail trade	\$17.35	10.4%	18.4%
Accommodation and food services	\$13.84	6.6%	15.6%
Health care and social assistance	\$28.29	13.8%	12.3%
Educational services	\$26.41	9.8%	8.4%
Manufacturing	\$30.24	10.7%	7.8%
Administrative and support and waste management services	\$18.96	4.2%	6.3%
Other services, except public administration	\$20.22	3.9%	5.7%
Construction	\$26.46	6.2%	5.4%
Transportation and warehousing	\$24.53	4.4%	4.6%
Professional, scientific, and technical services	\$44.34	10.0%	3.0%

Source: Labor Center analysis of the U.S. Census Bureau’s 2019 American Community Survey 5-year Sample.

* 2019 dollars

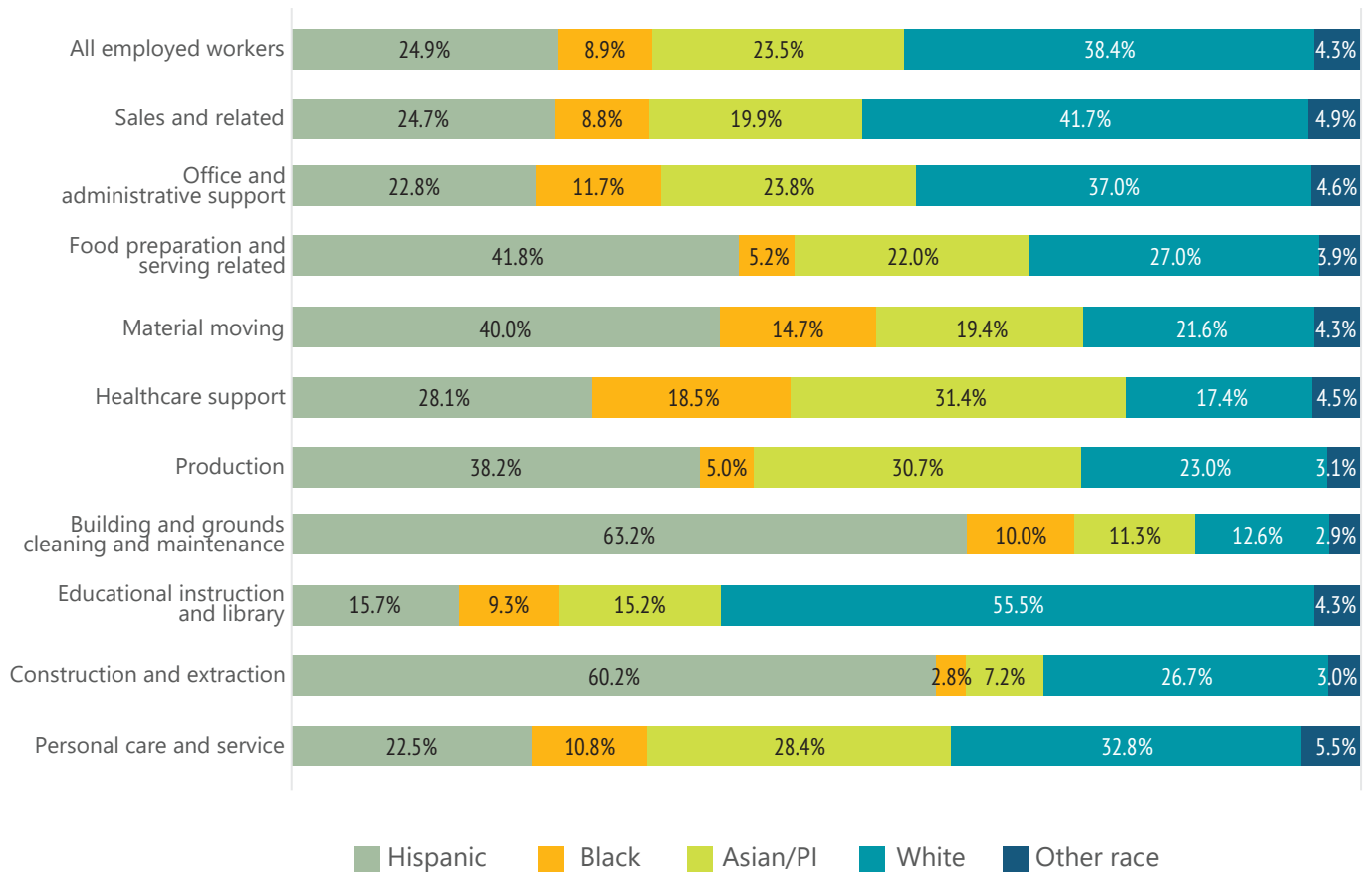
Exhibit 8. Top 10 occupations employing low-wage workers in the East Bay

Occupation	Median hourly wage*	Share of ALL East Bay workers employed in the occupation	Share of LOW-WAGE East Bay workers employed in the occupation
Sales and related	\$20.24	9.1%	13.8%
Office and administrative support	\$22.08	11.1%	12.5%
Food preparation and serving related	\$13.44	5.0%	12.3%
Material moving	\$15.29	3.5%	7.4%
Healthcare support	\$15.87	3.3%	6.6%
Production	\$20.80	5.0%	6.4%
Building and grounds cleaning and maintenance	\$15.96	3.1%	6.0%
Educational instruction and library	\$25.47	6.2%	5.6%
Construction and extraction	\$24.52	4.6%	4.8%
Personal care and service	\$13.17	1.9%	4.7%

Source: Labor Center analysis of the U.S. Census Bureau's 2019 American Community Survey 5-year Sample.

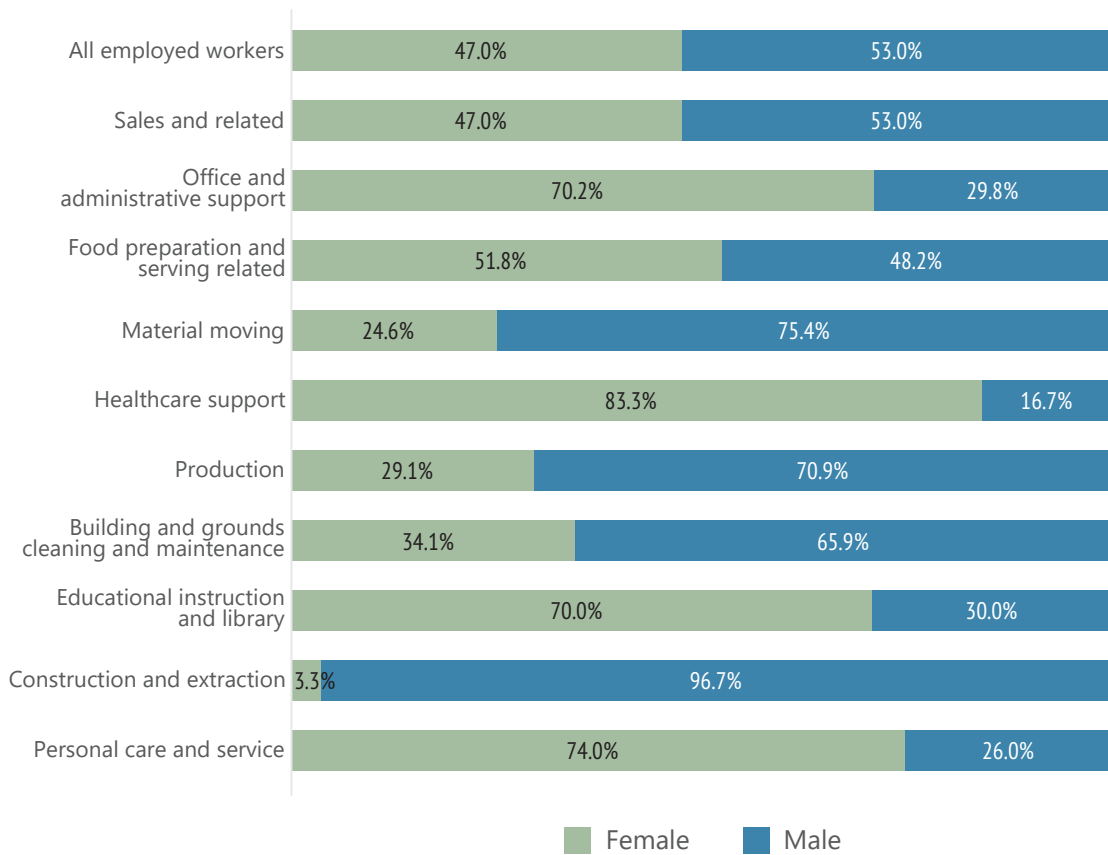
* 2019 dollars

Exhibit 9. Occupation composition by race/ethnicity in the top 10 occupations employing low-wage workers in the East Bay



Source: Labor Center analysis of the U.S. Census Bureau's 2019 American Community Survey 5-year Sample.

Exhibit 10. Occupation composition by gender in the top 10 occupations employing low-wage workers in the East Bay

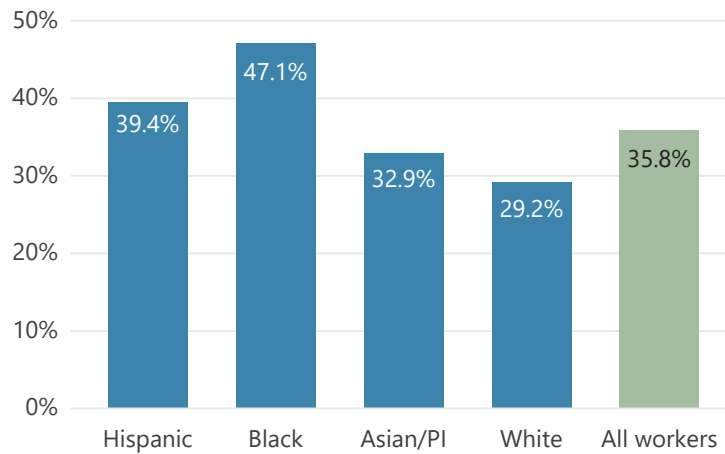


Source: Labor Center analysis of the U.S. Census Bureau's 2019 American Community Survey 5-year Sample.

Housing cost-burden among East Bay renters

A key challenge to worker self-sufficiency is housing affordability. While a majority of white and Asian/Pacific Islander workers were homeowners (63.7% and 67.1% respectively), less than half of Hispanic and Black workers owned their homes (47.8% and 42.5%). About four in ten East Bay workers were renters (41.3%); among these, more than one out of three (35.8%) lived in housing cost-burdened households¹² defined as spending more than 30% of their household income on rent, and one in eight (12.9%) were severely housing cost-burdened (defined spending more than 50% of household income on rent). Not only are Hispanic workers and Black workers more likely to be renters, but these worker/renters are disproportionately housing cost-burdened (see Exhibit 11).

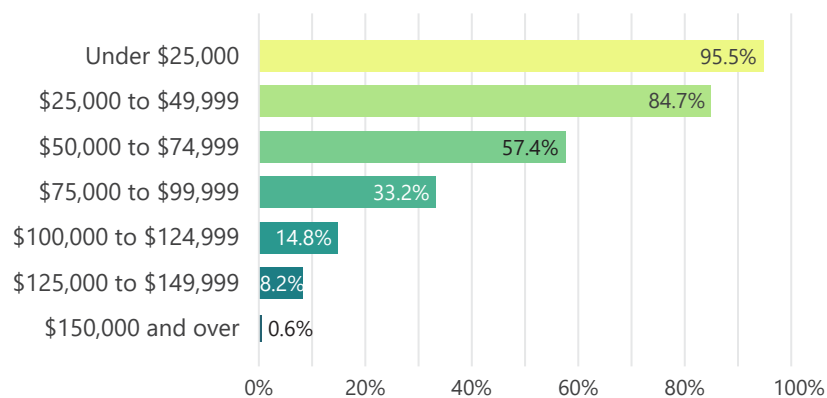
Exhibit 11. Percent of East Bay worker/renters housing cost-burdened, by race/ethnicity



Source: Labor Center analysis of the U.S. Census Bureau's 2019 American Community Survey 5-year Sample.

Housing cost-burden for renters is a function of both low earnings and rising rents. Two-thirds of housing cost-burdened worker/renters worked full-time with a median hourly wage of \$15.62 and a median annual household income of \$50,906. In contrast, worker/renters who were not housing cost-burdened had a median hourly wage of \$26.70 and a median annual household income of \$125,284. Exhibit 12 shows that a majority of worker/renter households with incomes less than \$75,000 were housing cost-burdened, and a third of households with incomes between \$75,000 and \$100,000 were housing cost-burdened.

Exhibit 12. Percent of East Bay worker/renters housing cost-burdened, by household income, in 2019 dollars

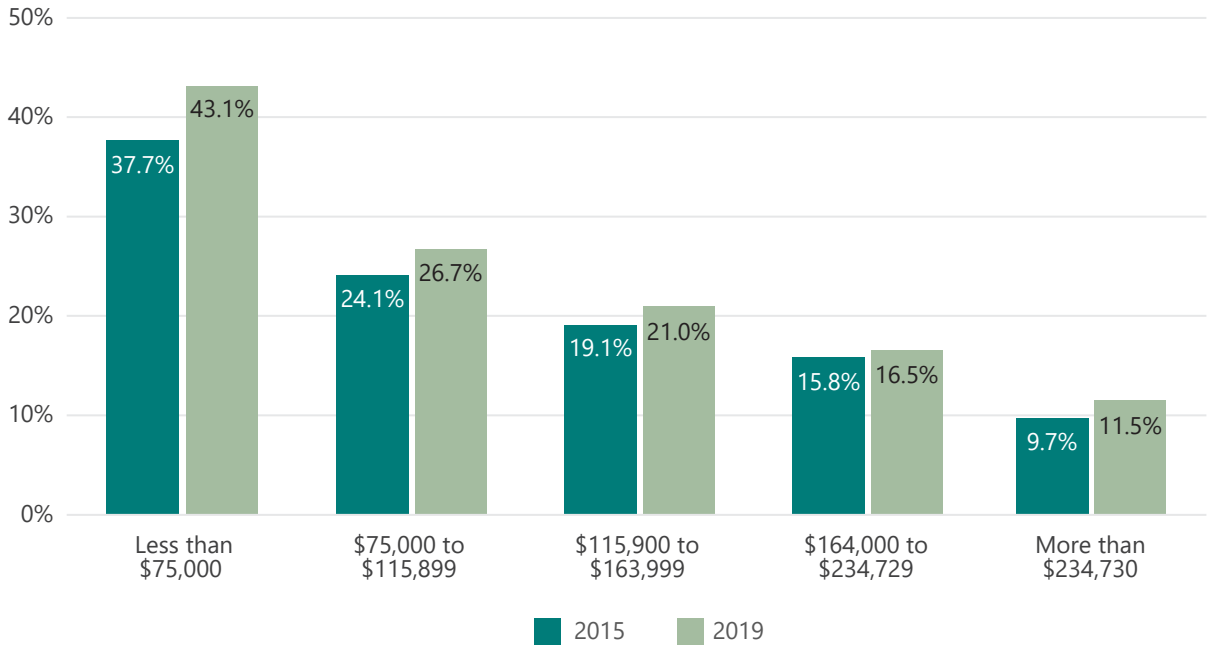


Source: Labor Center analysis of the U.S. Census Bureau's 2019 American Community Survey 5-year Sample.

We find that between 2015 and 2019, the rental costs of one-bedroom, two-bedroom, and three-bedroom apartments increased by 23.2%, 20.8%, and 11.9% respectively. Over that same time period, median hourly wages for East Bay worker/renters increased by 13.1%, and median household income increased around 18.9%. For East Bay worker/renters, the median proportion of household income that workers spent on rent across the 5 years remained relatively flat at around 24% (the average around 32% percent) and the proportion of housing cost-burdened workers held steady at around 36%.

However, this was not the case for low-income East Bay worker/renters households, in which the share of median household income spent on rent increased dramatically between 2015 and 2019. Households earning less than \$75,000 saw an increase from 37.7% to 43.1% in the share of their income going to rent (see Exhibit 13). Increasing wages is crucial to addressing housing cost-burden and promoting self-sufficiency. However, it is likely not to be enough. Work by Agarwal, Ambrose, and Diop (2019) suggests that while minimum wage increases reduce tenants’ struggle to pay their rent, these effects are short-lived as landlords subsequently raise rents in response to wage gains.¹³ Increasing earnings is a necessary step to fighting the rental affordability crisis in the East Bay, especially for workers of color, but additional supports are needed to address rising rents and cost of living.

Exhibit 13. Median rent-to-household income ratio by quintiles of household income, in 2019 dollars



Source: Labor Center analysis of the U.S. Census Bureau’s 2015-2019 American Community Survey 1-year Samples.

Conclusion

This report updated the analyses in the 2012 “The State of Work in the East Bay and Oakland” report, authored by the East Bay Alliance for a Sustainable Economy, that documented the struggle of East Bay workers with low wages, near poverty, and growing inequality due to the Great Recession. In this update, we examined the state of work in the East Bay during 2015 to 2019. Though these were years of economic growth and perceived prosperity, we nonetheless find that one in four East Bay workers earned low wages, 12.2% were in or near poverty, and over half did not make a wage sufficient to support a family of two adults and two children, even assuming a partner worked full-time and earned the same wage. These problems were particularly acute for workers of color. As we work toward recovery from the economic downturn caused by the Covid-19 pandemic, our report demonstrates that a return to a pre-pandemic economy will not be adequate for many East Bay workers and their families to achieve self-sufficiency. An upcoming report will examine the impact of Covid-19 on the state of work in the East Bay.

Methods and sources

Primary analysis relies on data from the American Community Survey (ACS) 2019 5-Year sample. Analysis of housing cost-burden among East Bay workers and renters uses additional data from ACS 1-Year samples for 2015-2019. The ACS samples are restricted to 16- to 64-year olds, with non-zero earnings in the past year, who were not self-employed or unpaid family workers, who were at work last week or had a job but were not at work last week, and worked at least 27 weeks in the previous year and at least 10 hours a week. The ACS sample includes individuals who worked in Alameda County or Contra Costa County in California. The weighted sample includes just under a million workers (n = 905,933). Around 80% of individuals who worked in Alameda or Contra Costa Counties were also residents of the East Bay.

The ACS does not include an hourly earnings measure; we therefore construct the hourly wage measure by dividing the worker’s annual earnings by the product of usual hours worked per week and weeks worked last year. The ACS annual earnings variable includes wages, salary, commissions, and cash bonuses or tips from all jobs, before tax deductions. We trimmed hourly wage outliers by dropping wages less than \$0.50 or greater than \$100 in 1989 dollars.¹⁴ We then smoothed the hourly wages with a function that randomly adds or subtracts between \$0.00 and \$0.25 to each hourly wage. All earnings, income, and rental rates are in 2019 dollars.

Racial and ethnic categories included in this analysis were composed in the following ways. Workers identifying as Hispanic regardless of race were assigned as Hispanic. The remaining categories include non-Hispanic Black, non-Hispanic Asian and Asian Pacific Islander, and non-Hispanic white. Due to smaller sample sizes some analyses do not include workers in the “other” category which generally includes Native Americans, those identifying with two or more racial groups, or as “other race” not specified.

We use the MIT Living Wage Calculator¹⁵ to identify the percentage of workers who do not earn a living wage or a self-sufficiency wage. The MIT Living Wage Calculator estimates a self-sufficiency wage for full-time working one- and two-adult households with up to three dependent children for different regions

taking into account basic needs such as food, child care, medical expenses, housing, transportation, and other miscellaneous needs and estimates. We adjusted MIT’s 2022 self-sufficiency wage estimates for Alameda and Contra Costa Counties for each family type to 2019 dollars. We then compared workers’ hourly wages to each threshold to determine the percentage of East Bay workers who did not earn a wage sufficient to make ends meet for different family structures including: one-adult households, two-adult households (assumes both adults are working full time), single parent households with one or two children, and two-adult households with one or two children (assumes both adults are working full time). The table below provides the living wage thresholds for each family type in 2019 dollars.

Exhibit 14: MIT Living Wage thresholds for Alameda and Contra Costa Counties in 2019 dollars for different family sizes

Family size	Alameda County	Contra Costa County
1 adult	\$21.75	\$21.75
1 adult, 1 child	\$44.42	\$43.72
1 adult, 2 children	\$55.92	\$54.52
2 adults	\$16.37	\$16.37
2 adults, 1 child	\$23.91	\$23.56
2 adults, 2 children	\$30.71	\$30.01

Note: Analysis includes a single adult supporting up to two children and two working adults supporting up to two children.

We calculated the percentage of working renters who were housing cost-burdened by creating a ratio of rent costs relative to total household income. Homeowners and those paying “no cash rent” were excluded. Workers living in households spending more than 30% of their total household income on rent were considered housing cost-burdened and those spending more than 50% of their total household income on rent were considered severely housing cost-burdened. Identifying workers, families, or households spending more than 30% of their household income on rent is a long-used and easy-to-understand standard for estimating housing cost-burden. However, it is important to understand the ways in which this measure is limited. Because the measure is a simple ratio of rent costs relative to household income the measure is agnostic to different levels of income, household size, or expenses. There may be important questions about whether a housing cost-burdened higher-income household is as equally housing cost-burdened as a lower-income household or if housing cost-burdened households with children are as equally cost-burdened as single adult households. Additionally, the 30% standard cannot account for households that may avoid being housing cost-burdened by living in poor-quality housing, commuting longer to work, or living in overcrowded conditions. For history, critiques, and alternatives to the rent-ratio standard check out Airgood-Obrycki, Hermann, and Wedeen (2022),¹⁶ Belsky, Goodman, and Drew (2005),¹⁷ HUD (n.d.),¹⁸ and Stephen Ezennia and Onal Hoskara (2019).¹⁹

Endnotes

- 1 In this report, we define the East Bay as consisting of the counties of Alameda and Contra Costa.
- 2 EBASE. "The State of Work in the East Bay and Oakland." East Bay Alliance for a Sustainable Economy, 2012. <https://workingeastbay.org/wp-content/uploads/2014/05/State-of-Work-in-the-East-Bay-and-Oakland-2012.pdf>.
- 3 EBASE. "East Bay Alliance for a Sustainable Economy." <https://workingeastbay.org/>.
- 4 According to data available from the Federal Reserve, between 2015 and 2019, the U.S. economy grew 8%, income per person grew 9%, the stock market grew at a rate of 9% per year, while inflation was under 2% per year. FRED. "Federal Reserve Economic Data." <https://fred.stlouisfed.org/>.
- 5 See methods section for sample information.
- 6 See methods section for details on racial and ethnic group categorization.
- 7 In this report, the term "white" refers to non-Hispanic individuals that self-identify their race as white.
- 8 UC Berkeley Labor Center. "Inventory of US City and County Minimum Wage Ordinances." *UC Berkeley Labor Center* (blog), 2023. <https://laborcenter.berkeley.edu/inventory-of-us-city-and-county-minimum-wage-ordinances/>.
- 9 To learn more, see our "Low-Wage Work in California Data Explorer" at <https://laborcenter.berkeley.edu/low-wage-work-in-california-data-explorer/> which utilizes this method of defining "low-wage worker." "Low-Wage Work in California Data Explorer."
- 10 MIT. "Living Wage Calculator," 2023. <https://livingwage.mit.edu/>. For more information on wage levels required to earn a living wage in Alameda and Contra Costa Counties according to the MIT Living Wage Calculator, see Exhibit 14 in the Methods section of this report.
- 11 Zhavoronkova, Marina, Rose Khatler, and Matthew Brady. "Occupational Segregation in America." Center for American Progress, March 29, 2022. <https://www.americanprogress.org/article/occupational-segregation-in-america/>.
- 12 Our estimate of housing cost-burdened workers is lower than other studies likely due to our sample selection restrictions. See methodology section for discussion.
- 13 Agarwal, Sumit, Brent W. Ambrose, and Moussa Diop. "Do Minimum Wage Increases Benefit Intended Households? Evidence from the Performance of Residential Leases." Federal Reserve Bank of Philadelphia, 2019. <https://www.philadelphiafed.org/consumer-finance/mortgage-markets/do-minimum-wage-increases-benefit-intended-households>.
- 14 This step follows the methodology from: Economic Policy Institute, "Methodology for Measuring Wages and Benefits," State of Working America Data Library, February 21, 2019, <https://www.epi.org/data/methodology/>.
- 15 MIT. "Living Wage Calculator," 2023. <https://livingwage.mit.edu/>.
- 16 Airgood-Obrycki, Whitney, Alexander Hermann, and Sophia Wedeen. "'The Rent Eats First': Rental Housing Unaffordability in the United States." *Housing Policy Debate*, 2022, 1–21. <https://doi.org/10.1080/10511482.2021.2020866>.

- 17 Belsky, Prepared Eric S, Jack Goodman, and Rachel Drew. "Measuring the Nations Rental Housing Affordability Problems." Joint Center for Housing Studies Harvard University, 2005. https://www.jchs.harvard.edu/sites/default/files/rd05-1_measuring_rental_affordability05.pdf.
- 18 HUD. "Rental Burdens: Rethinking Affordability Measures." PD&R Edge. U.S. Department of Housing and Urban Development Office of Policy Development and Research. Accessed May 5, 2023. https://www.huduser.gov/portal/pdredge/pdr_edge_featd_article_092214.html.
- 19 Stephen Ezennia, Ikenna, and Sebnem Onal Hoskara. "Methodological Weaknesses in the Measurement Approaches and Concept of Housing Affordability Used in Housing Research: A Qualitative Study." *PLoS ONE* 14, no. 8 (August 30, 2019): e0221246. <https://doi.org/10.1371/journal.pone.0221246>.

Institute for Research on Labor and Employment
University of California, Berkeley
2521 Channing Way
Berkeley, CA 94720-5555
(510) 642-0323
laborcenter.berkeley.edu



UC Berkeley Center for Labor Research and Education

The Center for Labor Research and Education (Labor Center) is a public service project of the UC Berkeley Institute for Research on Labor and Employment that links academic resources with working people. Since 1964, the Labor Center has produced research, trainings, and curricula that deepen understanding of employment conditions and develop diverse new generations of leaders.

The analyses, interpretations, conclusions, and views expressed in this report are those of the authors and do not necessarily represent the UC Berkeley Center for Labor Research and Education, UC Berkeley Institute for Research on Labor and Employment, the Regents of the University of California, or collaborating organizations or funders.