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## **The Union Effect in California #1: Wages, Benefits, and Use of Public Safety Net Programs**

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*[This brief is the first in a three-part series on The Union Effect in California.](#)*

Unions have historically played a role in improving wages and benefits by enabling workers to join together to negotiate with employers. Recent research finds a persistent positive effect of unions on members' wages and household income (Farber et al. 2018). On their own, individual workers have little bargaining power with employers. When bargaining together, workers have raised not only their own wages, they have also helped to set higher standards that improve wages for union and non-union workers alike (Bivens et al. 2017). Income inequality in the United States has risen as the share of workers covered by a union contract has declined (Farber et al. 2018).

In this report we analyze the difference in the wages, benefits, and use of public safety net programs of workers covered by union contracts in California compared to non-union workers with similar demographic characteristics and working in similar industries. We find:

- 16.9 percent of the workforce is covered by a union contract in California, compared to 12.1 percent nationally. This includes 58.9 percent of public sector workers and 9.2 percent of private sector workers. (52.5 percent of union workers in California are in the public sector.)
- Workers covered by a union contract in California earn an average of 12.9 percent more than non-union workers with similar demographic characteristics and working in similar industries.
- Overall, we estimate that unions increase workers' earnings in California by \$18.5 billion annually through collective bargaining.

- Unions increase the likelihood that a worker will receive employer-sponsored health insurance by 37.2 percent, compared to non-union workers with similar demographic characteristics and working in similar industries. We estimate that 670,000 more Californians have health insurance through their employer as a result of collective bargaining in California.
- Unions increase the likelihood a worker will be offered a retirement plan on the job by 51.5 percent, compared to non-union workers with similar demographic characteristics and working in similar industries. We estimate 830,000 more Californians are offered retirement plans due to collective bargaining in California.
- Unions decrease by 37.1 percent the likelihood of a worker living in a low-income family, compared to non-union workers with similar demographic characteristics and working in similar industries.
- Unions decrease by 30.6 percent the likelihood that a worker is in a family where at least one member is enrolled in a public safety net program, compared to non-union workers with similar demographic characteristics and working in similar industries.
- Unions decrease by 30.9 percent the likelihood that a worker is in a family with at least one member enrolled in Medi-Cal, compared to non-union workers with similar demographic characteristics and working in similar industries.

By organizing and bargaining collectively, union workers are able to significantly improve their wages, benefits, and working conditions. For many Californians, unions are an important pathway to the middle class.

In what follows, we detail the findings of our analysis of Current Population Survey data for California.

## Finding 1: Unions Raise Workers' Wages

Union workers have higher average earnings than non-union workers. Part of this difference is due to union coverage, and part to the fact that the two groups of workers are different in terms of their age, experience, educational attainment, and the industries in which they work (see Appendix 1). In order to estimate the wage difference attributable to union coverage, we use a regression model to control for industry and worker demographic characteristics (see Appendix 2 for a detailed description of data sources and methods).

We estimate that workers covered by a union contract in California earn 12.9 percent more on average than non-union workers with similar demographic characteristics and working in similar industries (see Table 2).

Using the same regression model, we calculate how much union workers would earn if they were not covered by a union contract. We estimate that union workers earn on average an additional \$5,800 more per year as a result of union coverage. This translates into an additional \$18.5 billion in earnings for workers covered by a collective bargaining agreement in California

each year. (See Appendix 2 for a detailed description of methods.) Table 1 shows the increase in wages as a result of union collective bargaining in six California regions.<sup>1</sup>

Our estimate of the union wage premium understates the full impact unions have on wages in California. Research has shown that unions also lift wages for non-union workers by setting wage standards across industries and sectors, and by advocating for policies such as the minimum wage. The state and multiple California cities and counties raised the minimum wage in recent years, thereby increasing earnings for many non-union workers and reducing the difference between union and non-union worker wages (Bivens et al. 2017; Walters and Mishel 2003).

**Table 1: Additional annual worker earnings as a result of union coverage, California and regions (2017 dollars)**

	Additional annual earnings per worker	Total additional annual earnings in California
California	\$5,800	\$18,500,000,000
Bay Area	\$5,300	\$3,600,000,000
Sacramento Area	\$5,400	\$1,200,000,000
San Joaquin Valley	\$7,000	\$2,400,000,000
Los Angeles	\$5,900	\$4,600,000,000
Other Southern California	\$5,500	\$4,600,000,000
Rest of California	\$6,500	\$2,000,000,000

*Source: Authors' analysis of 2013-2017 Current Population Survey Annual Social and Economic Supplement and 2017 Quarterly Census of Employment and Wages. Wages adjusted for inflation to 2017 dollars using the California CPI-W.*

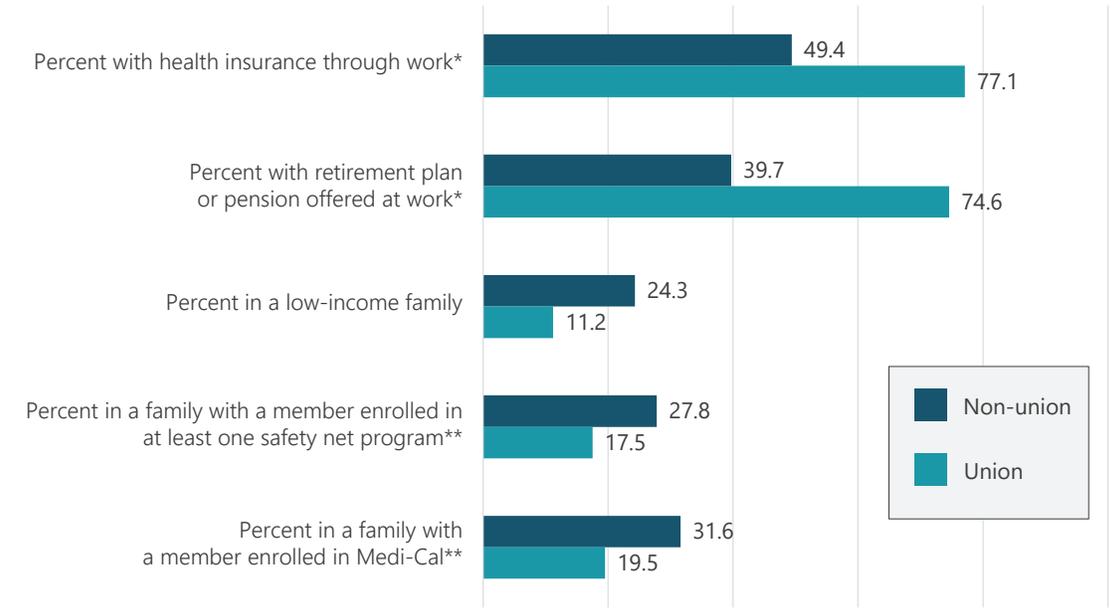
*Note: See Appendix 2 for a description of methods*

## Finding 2: Unions Increase Access to Employment-Based Health Coverage

Union workers are more likely to receive employment-based health insurance than their non-union counterparts. Figure 1 shows that in California, 77.1 percent of union members reported participating in an employment-based health plan between 2013 and 2017 compared to 49.4 percent of those not in a union. Again controlling for differences in industry and worker characteristics, we estimate that workers covered by a union contract are 37.2 percent more likely to have health coverage through an employment-based plan than their non-union counterparts, as shown in Table 2. We estimate that 670,000 more Californians have health insurance as a result of collective bargaining in California (see Appendix 2 for a detailed description of our methods). California's union workers also pay a lower share of premiums on average than their non-union counterparts and have plans with lower deductibles (Whitmore and Gabel 2017).

The differences in availability of health care plans on the job combined with higher wages translates into lower usage of California’s public health care programs. We estimate that 31.6 percent of non-union workers in California are enrolled or have a family member enrolled in Medi-Cal, California’s Medicaid program, compared to 19.5 percent of union families. As shown in Table 2, we find that union workers are 30.9 percent less likely to be in a family where at least one member is enrolled in Medi-Cal, compared to non-union workers with similar demographic characteristics and working in similar industries.

**Figure 1: Benefits, low-income status, and use of public safety net programs by union coverage, California**



\* Authors' analysis of 2013-2017 Current Population Survey Annual Social and Economic Supplement

\*\* Authors' analysis of 2014-2015 Current Population Survey Annual Social and Economic Supplement and administrative data

### Finding 3: Unions Increase Access to Retirement Benefits

Union workers are more likely than non-union workers to be offered retirement benefits by their employer. In California, 74.6 percent of workers covered by a collective bargaining agreement reported being offered a retirement plan through their job compared to 39.7 percent of non-union workers (see Figure 1). Comparing similar workers in similar industries, we find that union workers are 51.5 percent more likely to have a retirement plan through their job than their non-union counterparts, as shown in Table 2. We estimate that 830,000 more workers in California are offered a retirement plan or pension by their employer as a result of a collective bargaining agreement. (See Appendix 2 for a detailed description of the methods.)

Available data in California does not let us distinguish between defined benefit and defined contribution plans. Nationally, union workers are almost 50 percent more likely to have any kind of retirement plan at work and almost five times as likely to have a defined benefit pension than their non-union counterparts (Bureau of Labor Statistics 2017).<sup>2</sup>

Defined benefit pensions provide guaranteed lifelong retirement income to retirees and are managed by professionals. Defined contribution plans, such as 401(k)s, are individual investment accounts in which workers bear all investment risk as well as the risk of outliving their savings.

## **Finding 4: Unions Increase Family Income and Decrease Reliance on Public Safety Net Programs**

Union members are less likely to earn low wages and live in low-income families (defined as family incomes less than 200 percent of the federal poverty line, or FPL). In California, 24.3 percent of non-union workers are in low-income families compared to 11.2 percent of union workers. Controlling for industry and worker characteristics, we estimate that workers covered by a union contract are 37.1 percent less likely to have family incomes under 200 percent FPL than their non-union counterparts, as shown in Table 2.

With higher incomes and greater access to benefits, union families are less likely to need to rely on public safety net and health insurance programs to meet their basic needs. In this report we analyze the three largest programs providing income assistance: Supplemental Nutrition Assistance Program (SNAP), the Earned Income Tax Credit (EITC), and Temporary Aid to Needy Families (TANF) cash assistance. We estimate that 27.8 percent of non-union workers are in a family relying on one or more of these programs, compared to 17.5 percent of workers covered by a union contract. Comparing similar workers in similar industries, we estimate that union workers are 30.6 percent less likely to be in a family that relies on a public safety net program than their non-union counterparts, as shown in Table 2 (page 6).

Table 2: Regression-adjusted union premiums, California

	Regression-adjusted union premium
<b>Wages (percent change)</b>	
Hourly wage*	12.9
<b>Benefits (percent change in likelihood)</b>	
Health insurance through work**	37.2
Retirement plan or pension offered at work**	51.5
<b>Use of public safety net programs (percent change in likelihood)</b>	
Workers with a family member enrolled in at least one safety net program***	-30.6
Workers with a family member enrolled in Medi-Cal***	-30.9
<b>Low-income status (percent change in likelihood)</b>	
Worker's family is low-income**	-37.1

\* Authors' analysis of 2013-2017 Current Population Survey Outgoing Rotation Groups

\*\* Authors' analysis of 2013-2017 Current Population Survey Annual Social and Economic Supplement

\*\*\* Authors' analysis of 2014-2015 Current Population Survey Annual Social and Economic Supplement and administrative data. Safety net programs include the Earned Income Tax Credit (EITC), Supplemental Nutrition Assistance Program (SNAP), and Temporary Assistance to Needy Families (TANF).

Note: See Appendix 2 for details on regression methods.

## Appendix 1: Percent of California workers covered by a union contract

	Percent of all workers covered by a union contract	Percent of public sector workers covered by a union contract	Percent of private sector workers covered by a union contract
<b>All workers</b>	17.3	58.5	9.7
<b>Gender</b>			
Female	18.2	57.7	8.8
Male	16.6	59.6	10.5
<b>Age</b>			
18-24	8.0	29.5	6.2
25-34	14.5	55.7	8.8
35-44	19.2	63.0	10.5
45-54	21.0	62.4	11.5
55-64	22.0	60.6	11.5
<b>Race/ethnicity*</b>			
White	19.5	61.8	10.0
Black	25.6	58.0	13.8
Latino/a	15.3	56.9	9.7
Asian	14.2	52.0	8.3
Other	16.6	55.9	7.8
<b>Nativity</b>			
U.S. Born	19.8	60.3	10.7
Foreign-born	12.4	52.0	8.1
<b>Education</b>			
High school diploma or less	13.4	51.6	9.9
Some college	18.9	58.7	11.4
Bachelor's or more	19.7	60.9	8.0

*Note: Percents are row percents*

*Source: Authors' analysis of 2013-2017 Current Population Survey Outgoing Rotation Groups*

*\*Latinos of all races are included in the Latino/a category and all other race/ethnicity categories exclude Latino/a workers.*

## Appendix 2: Data and Methods

### Data

This report uses the Current Population Survey (CPS) for California. Specifically, we use the Economic Policy Institute CPS Outgoing Rotation Group (ORG) files (2013-2017) for our hourly wage estimates and the IPUMS CPS Annual Social and Economic Supplement (ASEC) (2013-2017) for estimates of health and retirement benefits and low-income status. We use the National Bureau of Economic Research CPS ASEC (2014-2015) for estimates of public safety net program and Medi-Cal enrollment. In all of our analyses, the sample is restricted to employed wage and salary workers age 18 to 64 who live in California. For wage estimates, we further restrict our sample to exclude observations with imputed wages. We define union workers as those who are either members of a union or covered by a union contract.

### Wage estimates

We estimate the adjusted union wage premium using ordinary least squares regression of log wages on union status and include controls for age, age squared, two-digit industry, education, race/ethnicity, gender, marital status, nativity, year, and region within California. We then exponentiate the coefficient on union status and subtract one to convert from log points to a percent estimate. Wage premium estimates are based on analysis of pooled 2013-2017 data.

To estimate the additional dollars paid to workers as the result of a union contract, we first use our regression equation to estimate the hourly wages of individual union workers under the counterfactual scenario that they were not covered by a union contract. We then construct annual earnings estimates for union workers based on (1) their actual hourly wage and (2) their predicted hourly wage in the counterfactual scenario where they were not in a union. For both measures, we multiply the hourly wage by the worker's usual weekly hours and by the average weeks worked per year for union workers in California, as estimated using the CPS ASEC for 2013-2017 (48.5 weeks). Next, we subtract the predicted annual earnings of union workers under the counterfactual scenario from their actual annual earnings to get the additional dollars earned as a result of having a union contract. The average difference across all union workers is then multiplied by the number of union workers in California, estimated by applying the California union density estimate from the CPS ORG 2013-2017 to the 2017 count of California workers from the Quarterly Census of Employment and Wages. We use the Quarterly Census of Employment and Wages because it is a more accurate source for employment counts than the Current Population Survey; as a result our estimated number of union workers in California is higher than in Hirsch and McPherson (2018). To arrive at regional estimates, we replicate this analysis within each region.

### Benefits, low-income status, and public safety net program estimates

Adjusted estimates for health and retirement benefits, low-income status, and use of public safety net programs were estimated using logit regressions and include controls for age, age

squared, major industry, education, race/ethnicity, gender, marital status, nativity, and year. We report the percentage difference in the marginal effects for union workers, estimated with and without the estimated union effect.

To estimate the additional number of workers in California who have employer-sponsored health insurance or are offered a retirement plan by their employer, we multiply the number of union workers in California (estimated by applying the California union density estimate from the CPS ORG 2013-2017 to the 2017 count of California workers from the Quarterly Census of Employment and Wages) by the percentage-point difference between our regression-adjusted estimates of the proportion of union and non-union workers with the benefit.

Benefits and low-income status estimates are based on analysis of pooled 2013-2017 data, and use of public safety net program estimates are based on analysis of pooled 2014-2015 data.

## Endnotes

- 1 Bay Area includes Alameda, Contra Costa, Marin, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Solano, and Sonoma Counties. Los Angeles includes Los Angeles County. Southern California includes Imperial, San Bernardino, San Diego, Orange, and Riverside Counties. Sacramento Area includes El Dorado, Placer, Sacramento, and Yolo Counties. San Joaquin Valley includes Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, and Tulare Counties. Rest of California includes all other counties in California.
- 2 These estimates are from the National Compensation Survey, an employer survey that yields higher coverage rates than the Current Population Survey.

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