



THE CENTER FOR CONSTRUCTION
RESEARCH AND TRAINING

Research and Outreach Quick Take Session: CPWR Data Bulletins and Dashboards

July 27, 2022

Amber Trueblood, Data Center Director

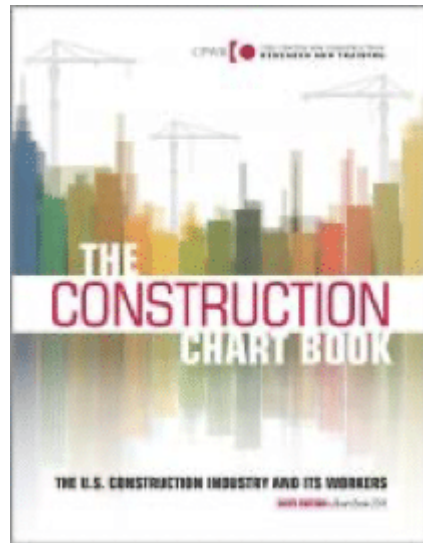
Team: Sam Brown, MPH

William Harris, M.S.

Raina Brooks

Data Center Products

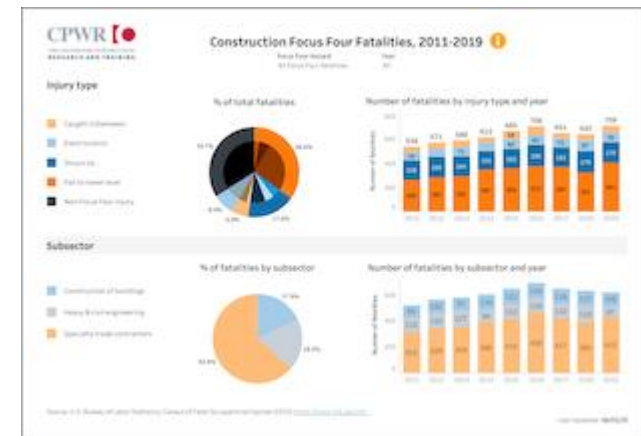
1. Construction Chart Book



2. Data Bulletins



3. Data Dashboards



- FREE at cpwr.com
- Include Excel files with the underlying data* and chart/image files



*At this time, the Construction Chart Book data has to be pulled with the published PPT image files.

Data Bulletins

- Publish six times a year
- Focus on one key topic area or an emerging area
- Use national surveillance data
- Include data and chart files
- Examples of Topics Covered in Past Year:
 - Fatal and nonfatal injuries
 - Employment trends and projections
 - Mental Health
 - Construction Safety Management
 - OSHA Inspections and Citations for Fall Protection
 - COVID-19 impacts
 - Struck-by injuries



<https://www.cpwr.com/research/data-center/data-reports/>

Impact of COVID-19 on the Construction Industry: 2 Years in Review

William Harris, MS, Amber Brooke Trueblood, DrPH, Samantha Brown, MPH, Raina D. Brooks, MPH¹

OVERVIEW

The COVID-19 pandemic has led to dramatic changes in the U.S. labor force and business practices, in large part because of high rates and numbers of nonfatal and fatal illnesses. The construction industry experienced numerous disruptions, from [material delivery delays and project suspensions](#) to concerns about future project funding. In addition, many construction firms improved workplace safety and implemented new practices, such as mask-wearing, social distancing, and more flexible absenteeism policies. After the initial waves of the pandemic, the construction industry saw promising recovery, especially in 2021. This Data Bulletin provides information on the two-year impact of COVID-19 on the industry, including changes in spending, employment, small business trends, OSHA inspections and citations, and worker safety and health. Data used come from a variety of publicly available sources, including the U.S. Bureau of Labor Statistics, U.S. Census Bureau, U.S. Department of Commerce, U.S. Occupational Safety and Health Administration (OSHA), and the Delphi Group at Carnegie Mellon University (see the Data Sources section below for more information). Time periods covered by this report varied by source according to data availability.



THIS ISSUE

This issue examines the impact of COVID-19 on the construction industry over the past two years.

KEY FINDINGS

COVID-19 illness among construction workers was reflected by large increases in nonfatal illnesses compared to pre-pandemic levels.

Charts 12, 13

Employment in the construction industry fell 10% from 2020 Quarter (Q) 1 to Q2 but soon rebounded and was 4% higher in 2022 Q1 than in 2020 Q1.

Chart 4

More than half of construction small businesses reported reduced work hours at the start of the pandemic, but by the end of April 2022 17% of construction small businesses were reporting reduced work hours.

Chart 9

As of April 2022, nearly two-thirds (63%) of construction small businesses continued to report a moderate to large negative effect of COVID-19.

Chart 10

The COVID-19 vaccination rate was 82% for workers in all occupations in May 2022 and 52% for those in construction and extraction occupations.

Chart 14

NEXT DATA BULLETIN

Transportation Injuries in the Construction Industry

¹Correspondence to: datapcenter@cpwr.com. Unless otherwise noted, numbers in text and charts were calculated by the CPWR Data Center.

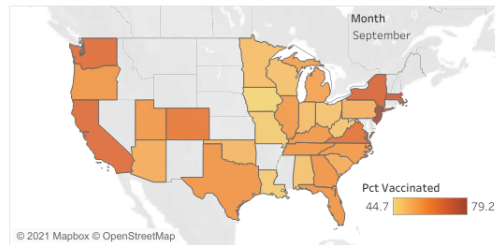
Data Dashboards



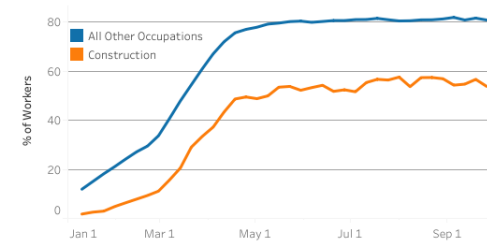
COVID-19 Vaccination in Construction*

January 6, 2021 to September 26, 2021

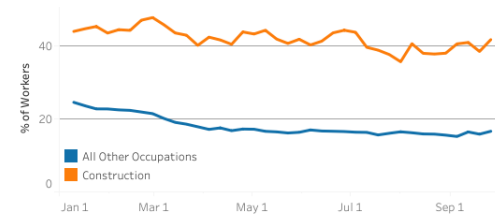
Vaccination rate by state



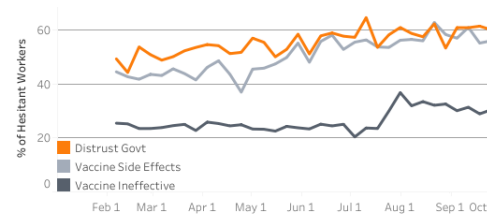
Vaccination rate by occupation



Vaccine hesitancy by occupation



Common barriers to vaccination in construction



*Construction occupations may include non-construction workers.

Data Source: Delphi Group (2021). COVID-19 Trends and Impact Survey. <https://cmu-delphi.github.io/delphi-epidata/symptom-survey/>

Last Updated: 10/07/2021

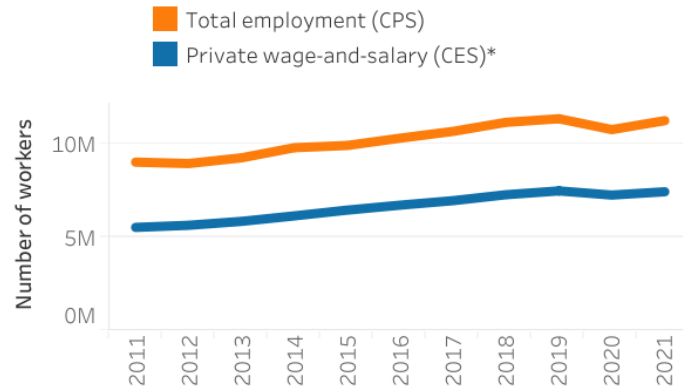
- Provide detailed information beyond the data bulletins with interactive charts and downloadable data files
- Updated as new data is available
- Can be a dashboard or storyboard format
 - Dashboard=One Sheet
 - Storyboard=Multiple Sheets on a Related Topic
- Published as:
 - Corresponding to a Data Bulletin
 - Stand alone dashboards
- 19 Dashboards Currently Available



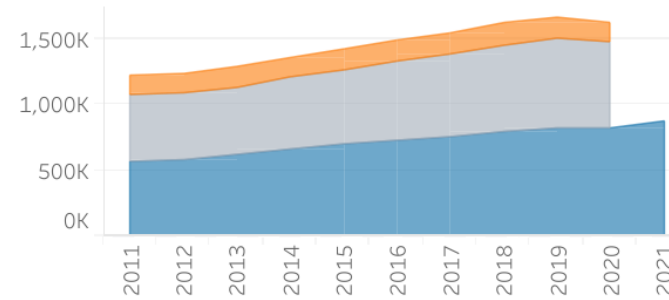
<https://www.cpwr.com/research/data-center/data-dashboards/>

Construction Employment Trends

Overall employment by year



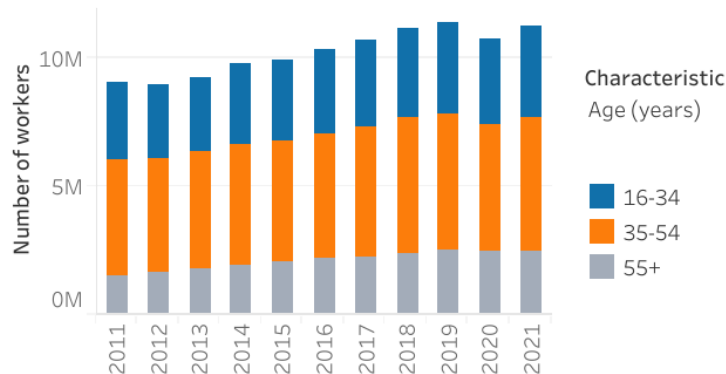
Private payroll employment by year* and detailed subsector for Construction of Buildings (NAICS 236)



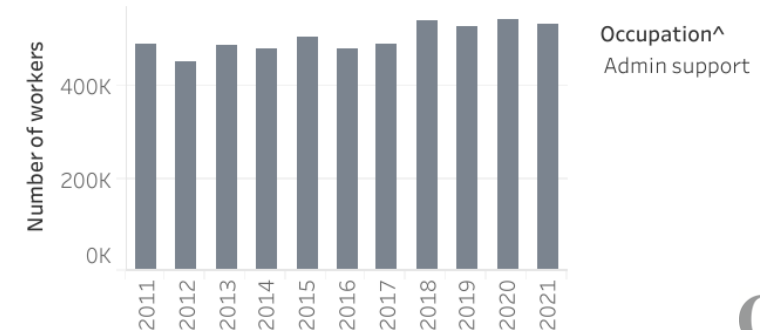
Major Subsector ^
Construction of Buildings (NAICS 236)

- Industrial building
- Commercial building
- Residential building

Employment by year and age



Employment by year among admin support workers



Occupation ^
Admin support



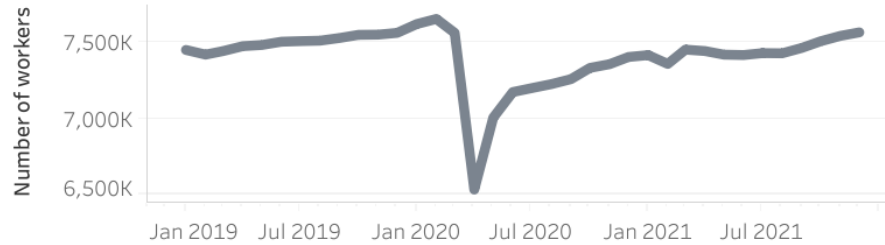
Construction Employment Trends



Employment by Subsector (Private Payroll)

Major Subsector
All

Employment by month for All Construction (NAICS 23)*

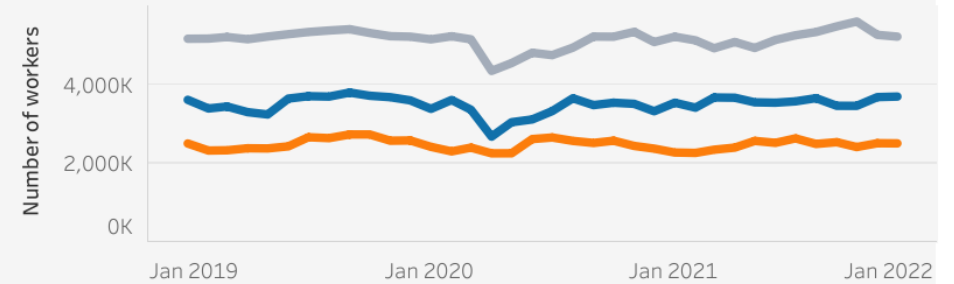


Employment by Worker Characteristics

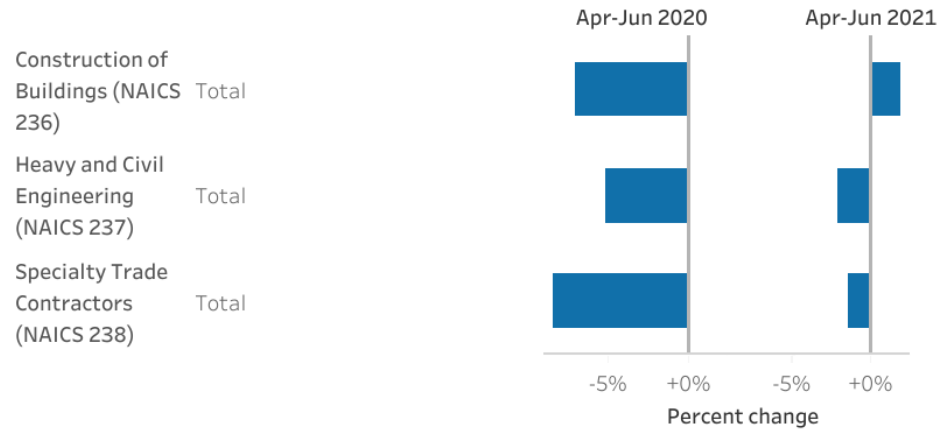
Characteristic
Age (years)

- 16-34
- 35-54
- 55+

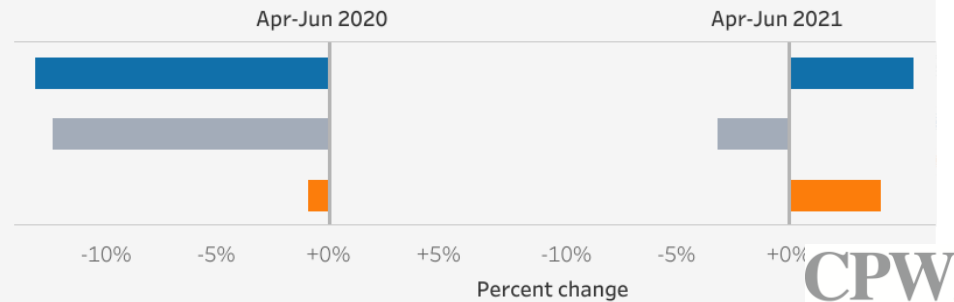
Employment by age (years), 2019-2021



Employment change since Apr-Jun 2019^



Employment change since Apr-Jun 2019, by age (years)



Next Steps: Interactive Chart Book



Construction Payroll Establishments and Employees



State: (All) | Subsector: (All) | Year: 2011 - 2019

Introduction:

Construction is a large, dynamic, and complex industry sector dominated by small establishments or those with fewer than 10 employees. From 2011-2019, about 82% of payroll establishments had fewer than 10 employees. While, large establishments with more than 500 employees accounted for 0.1% of payroll establishments, but 6% the paid construction employees.

This dashboard examines payroll establishments and employees in the construction industry from 2011 to 2019 by state, establishment size, and subsector. Key findings are summarized on the left hand side next to each respective chart.

The key finding section is dynamic and will update as you change the filters selected at the top of the dashboard. **Blue bold text** indicates text or a number that will update with your selected filters. All charts and tables update with selected filters.

The dashboard will be updated annually when new data are available, with the next update scheduled for Fall 2022. If you have questions or comments, please email datacenter@cpwr.com.

Key Findings:

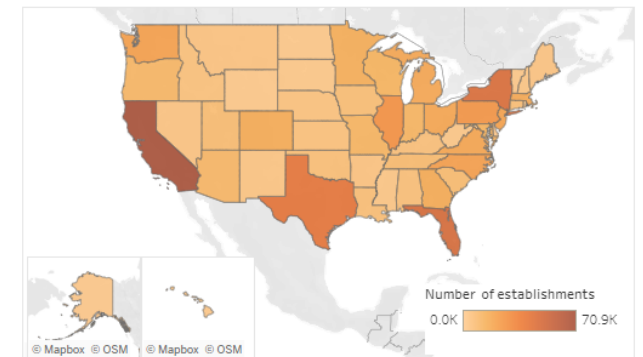
On average annually from 2011 to 2019, there were **692,472** establishments and **5,880,709** employees in **the United States** in **All Construction (NAICS 23)**.

The top five states based on establishment size on average annually from 2011 to 2019 in All Construction (NAICS 23) included:

- California
- Florida
- New York
- Texas
- Illinois

Construction establishments map

All Construction (NAICS 23)



<https://www.cpwr.com/research/data-center/the-construction-chart-book/>

Upcoming Products

Data
Bulletins

Transportation Injuries in the Construction
Industry

Dashboards

OSHA Citations for Chemical Exposures

Income and Benefits in Construction

Transportation Injuries in Construction



<https://www.cpwr.com/research/data-center/data-dashboards/>

Thank You! Questions?

Amber Trueblood, DrPH

Director, Data Center

atrueblood@cpwr.com

CPWR Data Center aims to produce easily accessible and user-friendly products, please email datacenter@cpwr.com if you have suggestions or questions.

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