



THE CENTER FOR CONSTRUCTION
RESEARCH AND TRAINING

Using the Chart Book and Accompanying Data Dashboards to Support Research

January 27, 2026

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Housekeeping

- Today's webinar will be recorded and automatically shared via follow-up email.
- The recording and slides will also be posted on cpwr.com/webinars.
- Attendees are automatically muted! Please submit panelist questions via the Q&A box.
- Spanish audio is available via simultaneous interpretation


Simultaneous Interpretation

Interpretación simultánea

WINDOWS - MAC (Navegador web/Browser)

1. En los controles del seminario web, haga clic en **Interpretación** 
2. Haga clic en el idioma que desee escuchar.
3. (Opcional) Para escuchar solo el idioma interpretado, haga clic en **Silenciar audio original**.

Nota: Hay que unirse al audio del seminario web a través de audio o VoIP de la computadora. No podrá escuchar la interpretación de idiomas si utiliza las funciones de audio de teléfono [llamada directa](#) o [recibir llamada](#).

1. In your webinar controls, click **Interpretation** 
2. Click the language that you would like to hear.
3. (Optional) To hear the interpreted language only, click **Mute Original Audio**.

Note: You must join the webinar audio through your computer audio/VoIP. You cannot listen to language interpretation if you use the [dial-in](#) or [call me](#) phone audio features.

ANDROID - iOS (Aplicación móvil/Mobile App)

1. En los controles del seminario web, toque los puntos suspensivos **...**
2. Toque **Interpretación de idiomas**.
3. Toque el idioma que desee escuchar.
4. (Opcional) Toque el botón de alternancia **Silenciar audio original**.
5. Haga clic en **Finalizado**.

Nota: No podrá escuchar la interpretación de idiomas si utiliza las funciones de audio de teléfono [llamada directa](#) o [recibir llamada](#).

1. In your webinar controls, tap the ellipses **...**
2. Tap **Language Interpretation**.
3. Tap the language you want to hear.
4. (Optional) Tap the toggle to **Mute Original Audio**.
5. Click **Done**.

Note: You cannot listen to language interpretation if you use the [dial-in](#) or [call me](#) phone audio features.

Presentation Outline

- Poll Questions
- History of the Chart Book
- 7th Edition Chart Book
 - PDF
 - Interactive
- Topics Covered
- Data and Research
- Using the Chart Book for Research

Poll Questions

Do you use CPWR Data Center products to support your research efforts?

- Yes, I use to support research efforts
- Yes I use, but I do not do research just interested in the webinar
- No, but I plan to use in the future
- No and do not plan to use

Are you familiar with the Construction Chart Book PDF and Interactive Data Dashboards?

- Yes, familiar with both
- Yes, familiar with the PDF
- Yes, familiar the Dashboards
- Not familiar with either

History of the Chart Book



**Launched in
1997.**



**Published
under CPWR's
cooperative
NIOSH grant
as the
National
Construction
Center.**



**New topics
introduced
with each
edition.**



**Pulls data
from a variety
of sources.**



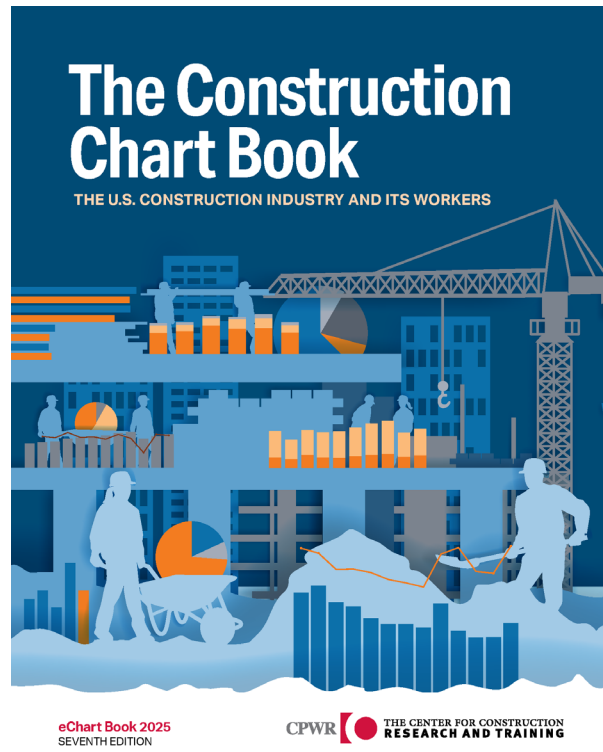
**6th edition
ebook and
PDF**



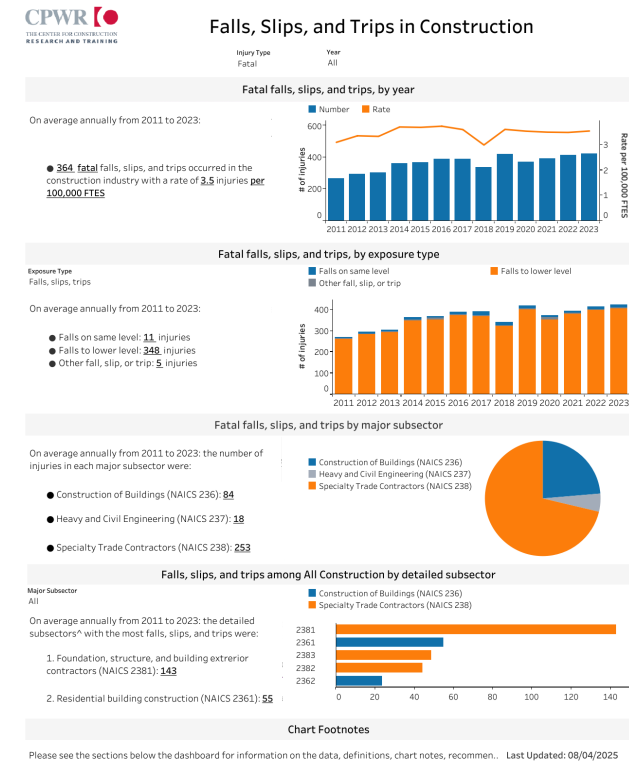
**7th edition
Data
Dashboards
and PDF**

7th Edition Chart Book

Downloadable PDF



Interactive Data Dashboards



7th Edition Chart Book PDF

Establishments by Payroll Status

Construction *establishments* are classified as either *payroll* or *nonemployer* (with no paid employees or payroll). Historically, nonemployer establishments have accounted for approximately 75% of establishments in construction (CPWR, 2018). From 1997 to 2012, nonemployer establishments, which include independent contractors, increased from 74% to 80% of all construction establishments.

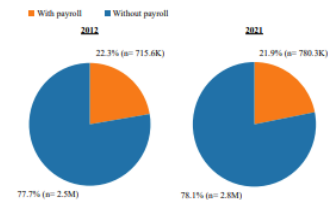
In many industries, the two establishment types are linked, with one report finding that increases in the number of nonemployer establishments in a given year resulted in growth in the number of payroll establishments over the next three years due to independent contractors eventually hiring employees (Moore, 2018). That study estimated that an average county with 1,000 new establishments without payroll would see 350 new payroll establishments in the following three years. This pattern is one reason it is important to understand how establishments with and without payroll change over time: this information can help guide decisions by business owners and government officials, as well as efforts to improve worker safety and health, as outreach methods differ by the type of establishment.

The U.S. Census Bureau produces the County Business Patterns (CBP), an annual series that provides information on establishments with paid employees (payroll), as well as Nonemployer Statistics (NES), an annual series on establishments with no paid employees (nonpayroll; U.S. Census Bureau, n.d.-c, n.d.-b). The CBP-NES Combined Report merges both data sources (U.S. Census Bureau, n.d.-a).

FINDINGS

Three out of four construction establishments are nonemployer (i.e. without payroll; Chart 2a). In 2021, there were 2.8 million (M) nonemployer establishments in construction, a 12.0% increase from the 2.5M in 2012. In comparison, there was a 9.0% increase in payroll establishments over that period, from 715.6 thousand (K) to 780.3K. A majority (71.7%) of employees worked for establishments with payroll (data not shown; assumes one worker for each establishment without payroll). This figure is consistent with research showing almost a quarter of the construction workforce being self-employed (Harris et al., 2023).

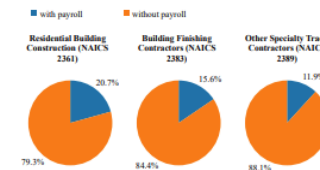
Chart 2a. Percentage of construction establishments, by payroll status (2012 versus 2021)



Source: U.S. Census Bureau, 2021 CBP-NES Combined Reports.

Of the three *detailed subsectors* with the largest number of establishments, Residential Building Construction (NAICS 2361) had similar distribution by payroll status as its major subsector, Construction of Buildings (NAICS 236), with slightly over 20% of establishments being payroll (Chart 2c). In comparison, 15.6% of Building Finishing Contractors (NAICS 2383) and 11.9% of Other Specialty Trade Contractors (NAICS 2389) were establishments with payroll, lower than the 21.0% for all Specialty Trade Contractors (NAICS 238).

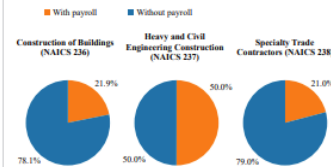
Chart 2c. Distribution of payroll status among the top* 3 detailed subsectors (2021)



Sources: U.S. Census Bureau, 2021 CBP-NES Combined Reports.
*Top defined on number of establishments.

The proportion of establishments with and without payroll varies by *major subsector* (Chart 2b). Heavy and Civil Engineering Construction (NAICS 237) is split evenly between establishments with payroll (50.0%) and without (50.0%). In contrast, only one in five establishments in Construction of Buildings (NAICS 236; 21.9%) and Specialty Trade Contractors (NAICS 238; 21.0%) were payroll.

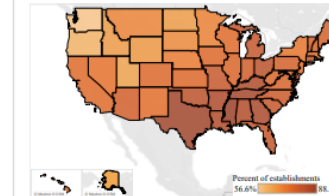
Chart 2b. Percentage of construction establishments, by major subsector and payroll status (2021)



Source: U.S. Census Bureau, 2021 CBP-NES Combined Reports.

The proportion of establishments with and without payroll also varies by state (Chart 2d). In 12 states and the District of Columbia, establishments without payroll made up more than 80% of construction establishments in 2021 (highest to lowest percentage): Mississippi, Texas, Tennessee, Georgia, Arkansas, Kentucky, Alabama, Louisiana, Oklahoma, Ohio, Florida, District of Columbia, and Michigan. There were 10 states in which payroll establishments accounted for more than 30% of establishments (highest to lowest percentage): Washington, Oregon, Alaska, Utah, Idaho, North Dakota, Wyoming, South Dakota, Montana, and Minnesota.

Chart 2d. Establishments without payroll as a percentage of all construction establishments, by state (2021)



Source: U.S. Census Bureau, 2021 CBP-NES Combined Reports.

TAKEAWAYS

These findings highlight differences in establishments with and without payroll. As the industry changes to meet demand, construction establishment trends need to be monitored because they provide indicators on how the industry is growing/performing. Information on the overall distribution of the construction workforce, which can be used to guide safety and health interventions, is crucial due to the difference in safety resources between payroll and nonemployer establishments (Schneider, n.d.).

RELATED CPWR PRODUCTS

- CPWR—The Center for Construction Research and Training. [2025]. Construction Establishments by Payroll Status. [dashboard]. www.cpw.com/research/data-center/construction-chart-book/interactive-7th/industry-businesses/.
o This interactive data dashboard corresponds to the current chapter. It provides charts and text that can be filtered by year and major subsector.
- CPWR—The Center for Construction Research and Training. [2025]. Nonemployer Establishments and Revenue. [dashboard]. www.cpw.com/research/data-center/construction-chart-book/interactive-7th/industry-businesses/.
- CPWR—The Center for Construction Research and Training. [2025]. Payroll Establishments and Employees. [dashboard]. www.cpw.com/research/data-center/construction-chart-book/interactive-7th/industry-businesses/.

7th Edition Chart Book Interactive Data Dashboards



Topics Covered

Industry,
Business, &
Owner

Employment,
Income, &
Benefits

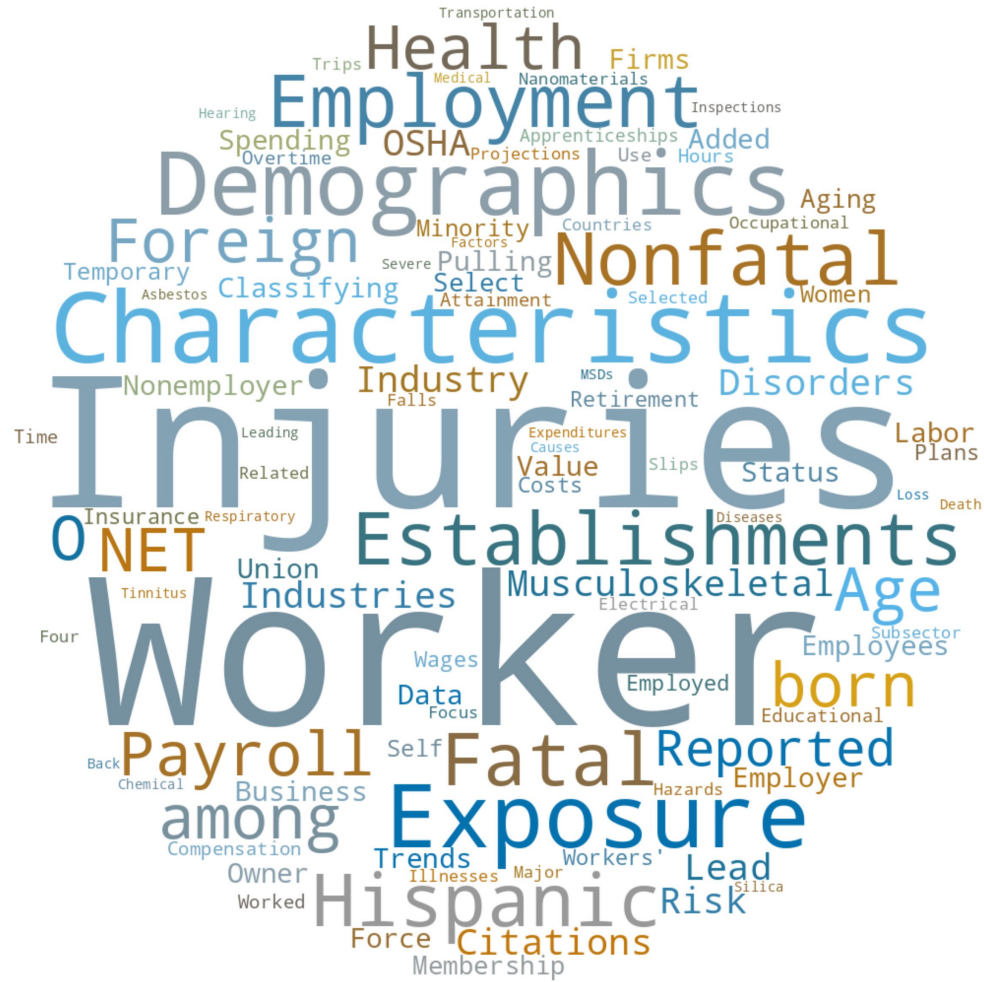
Injuries, Illnesses,
& Other Health
Outcomes

Hazards &
Exposures

Other

- OSHA Enforcement
- Hours Worked
(interactive only)

Topics Covered



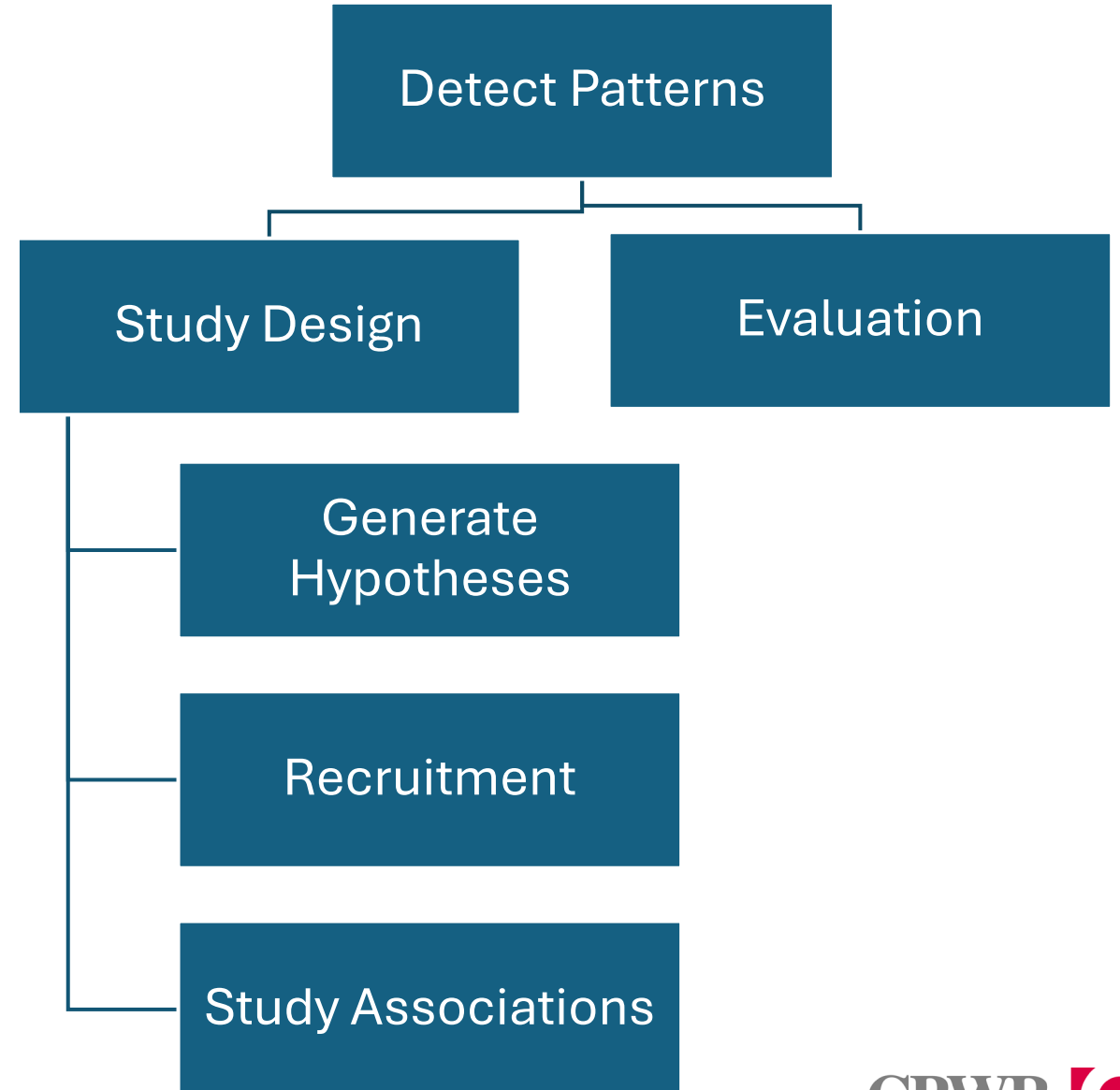
Data and Research

Population

Hazards/Exposures

Injuries/Illnesses

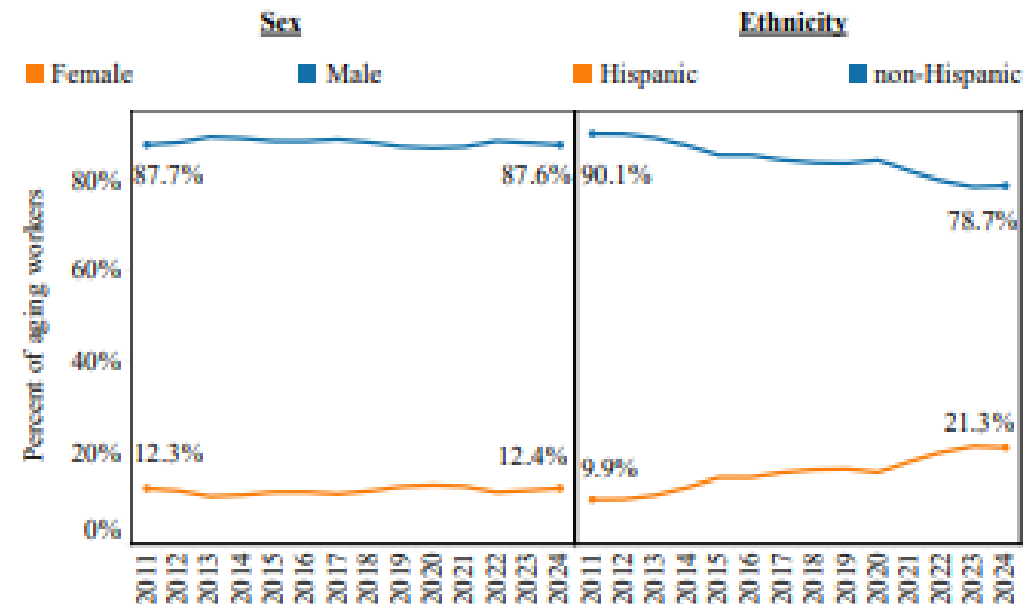
Data and Research



Using the Data: Study Design

- Who/What are you examining/studying?
 - Trends
 - High-risk populations (e.g., occupations/trades, tasks)
- What factors need to be included/examined?

Chart 15b. Demographics of aging construction workers (2011-2024)

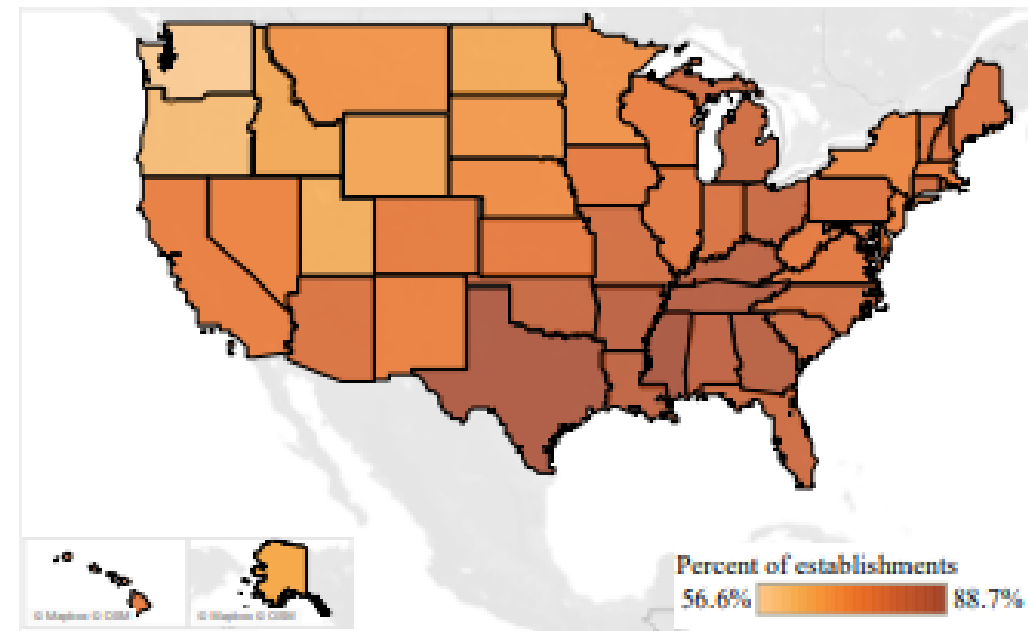


Source: IPUMS, 2011-2024 Current Population Survey.

Using the Data: Recruitment

- Who should be included or excluded?
- Where should we recruit?
- How should we recruit?

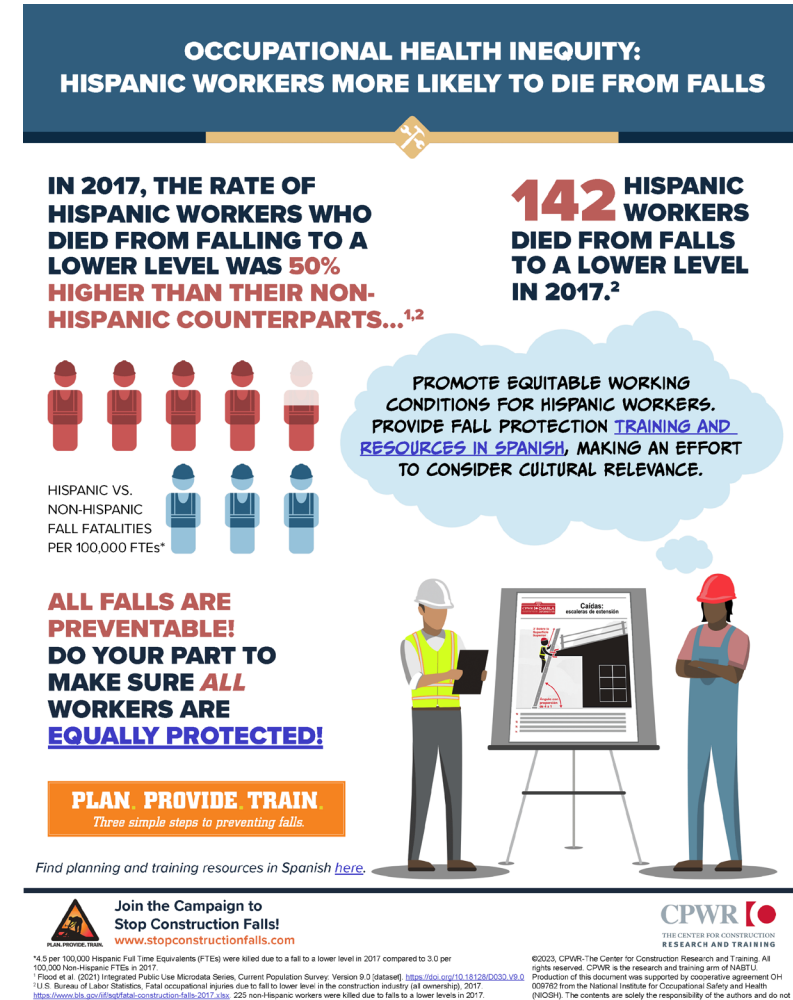
Chart 2d. Establishments without payroll as a percentage of all construction establishments, by state (2021)



Source: U.S. Census Bureau, 2021 CBP-NES Combined Reports.

Using the Data: r2p Opportunities

- Who is the intended audience?
 - Should materials be translated into different languages?
 - How technical should the materials be?
 - How do you reach your target audience?
- What findings should be turned into practical resources?
- Is a partnership needed?
 - Falls and Struck-by Stand Down Events
 - Small Contractor Roundtable



Using the Data: r2p Opportunities



R2P PARTNERSHIPS

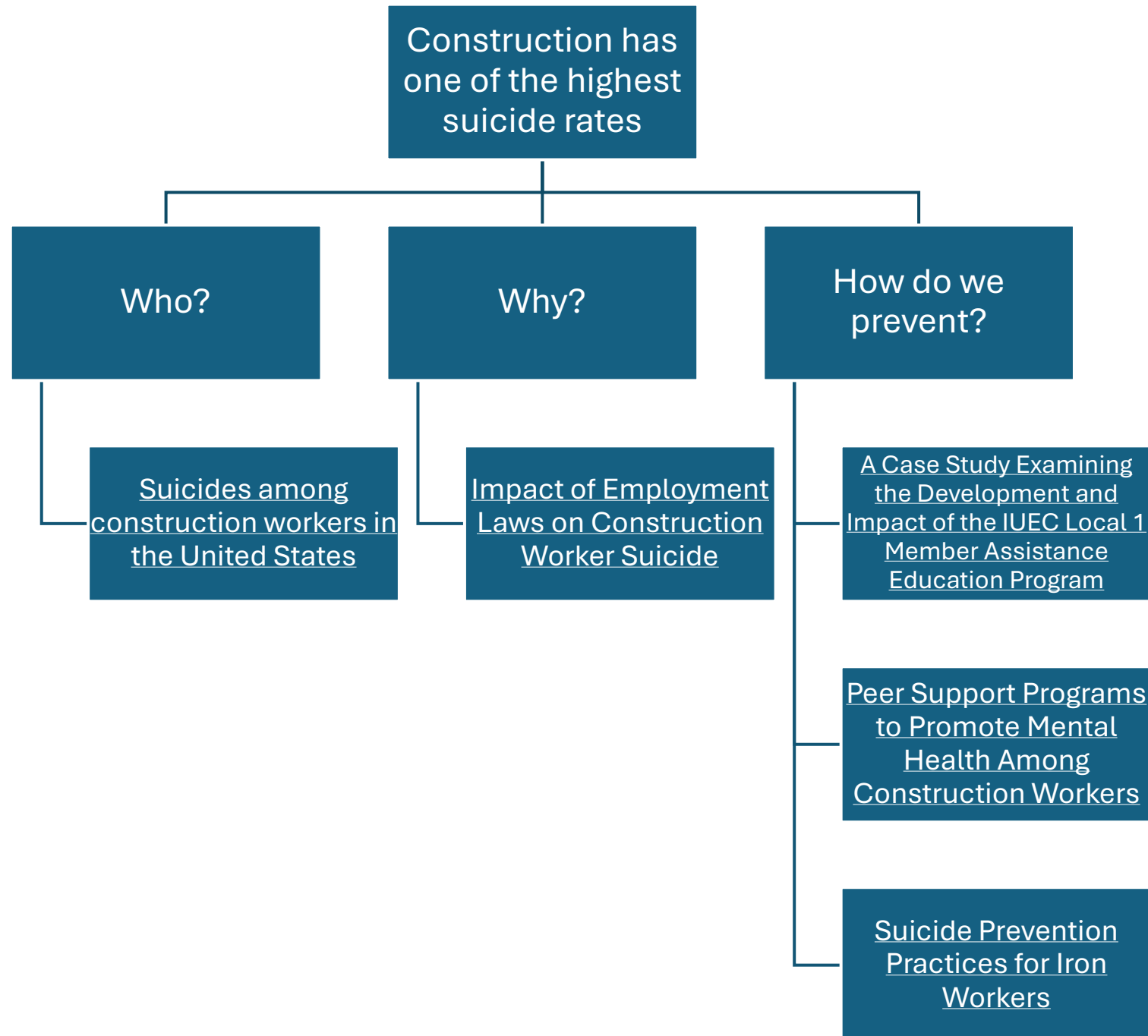
Home › Research › Research to Practice (r2p) › r2p Partnerships › Roundtable on Reaching Small Contractors and Workers at Disproportionate Risk

Roundtable on Reaching Small Contractors and Workers at Disproportionate Risk

Young workers, Latino workers, new entrants to the industry, and those working for small contractors have been found to be at a higher risk for an injury or fatality than the construction workforce as a whole. Reaching these workers and their employers can be challenging because they are often unorganized and work on very small or isolated projects. Many work in the residential sector.

CPWR is engaging researchers and other concerned stakeholders through a series of **roundtable** discussions and projects to identify and overcome barriers to getting critical safety and health information, tools, and resources into the hands of these workers and their employers. This document, [CPWR Resources on Latino Workers, and Small Businesses in the Construction Industry](#) provides quick access to CPWR developed and CPWR-funded resources available for each category.

Using Data to Guide Research Example





MENTAL HEALTH IN THE CONSTRUCTION INDUSTRY

[Home](#) > [Research](#) > [Research to Practice \(r2p\)](#) > [r2p Library](#) > [Handouts, Planning Tools & Training Programs](#) > [Mental Health in the Construction Industry](#) > [Resources to Prevent Suicide Deaths in Construction](#)

Resources to Prevent Suicide Deaths in Construction

In 2021, construction workers were disproportionately affected by suicide deaths. Almost one-fifth (17.9%) of deaths by suicide where occupational industry was reported were in construction, despite construction workers accounting for only 7.4% of the workforce.¹ It has been apparent for a number of years now that the construction industry has one of the highest suicide rates compared to other industries.²

There is not a simple answer to why this increase has occurred – particularly among construction workers. However, just as we develop and identify resources to help workers and employers prevent visible injuries and illnesses, we are also committed to preventing those that may be less visible but equally as important to the safety, health, and well-being of the construction workforce.

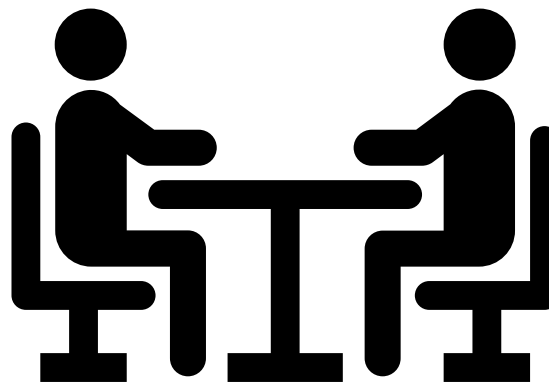
There are a growing number of resources available to help organizations and individuals understand the issue, start a conversation, and play a role in supporting friends, co-workers and family members. The list below is intended to help construction employers, unions and workers quickly find information on suicide prevention.



← RESEARCH

[Research Projects](#) +[Data Center](#) +[Research to Practice \(r2p\)](#) +[Training and Awareness Programs from Research](#) +[Management Resources from Research](#) +

How are you using or how do you plan to use Chart Book data for your research efforts?



CPWR Data Center Survey 2026

- CPWR's Data Center is seeking your feedback to better understand how our products support the industry's data needs and their overall usability. Through a short survey, we aim to gather insights on what's working well, identify gaps, and learn how we can improve. Your input will help guide future enhancements and ensure our data resources continue to meet the industry's evolving needs.

- Survey Link:

https://cpwr.az1.qualtrics.com/jfe/form/SV_6QfqoqruEqcU1Aq



CPWR Data Center Resources

Data Bulletins

- Transportation Injuries in Construction (Coming February 2026)
- Occupational Exposures in Construction (December 2025)
- Medical Expenditures in Construction (October 2025)

Construction Chart Book

- PDF *Limited number of printed copies available to be shipped for free email datacenter@cpwr.com.
- Interactive Data Dashboards

Thank you for attending today. Questions?

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We respond to data requests year-round, contact us at datacenter@cpwr.com.