Update from the National Construction Center NORA Construction Sector Council Meeting

November 16-17, 2022

Rick Rinehart and Chris Trahan Cain CPWR – The Center for Construction Research and Training



Research Programs

- Data Center
- Research to Practice (r2p)
- Safety Climate Safety Management Information System
- Pre-Task Planning
- PTD Diffusion
- Residential Falls

- OSHA 10 Evaluation
- Reactive Chemicals
- Exoskeletons in Construction
- Women in the Trades
- Nanomaterials
- Communications
- BBP MMH Evaluation
- Suicide and Opioid Overdose



We provide support for the NORA Construction Sector Council Workgroups

Struck-by Workgroup https://cpwr.com/struck-by-hazards

Falls Workgroup https://stopconstructionfalls.com/

COVID-19 Workgroup <u>https://covid.elcosh.org/</u> <u>https://www.covidcpwr.org/</u>



Struck-by Workgroup

Behavioral Economics Pilot Study

Behavioral Economics Pilot Study



- Test use of nudges and other behavioral economic techniques by incorporating them into a struck-by planning program
- Program will provide contractors of all sizes with tools and resources to effectively plan for the prevention of struck-by incidents
- Literature Review: <u>www.cpwr.com/wp-content/uploads/Behavioral-</u> <u>Economics-Literature-Review.pdf</u>



Behavioral Economics Pilot Study



Conducted a survey on struck-by incidents in February/March (N = 208)

Key findings:

- 1. Primary causes of struck-by injuries:
 - Working around heavy equipment or vehicles
 - Falling/flying objects from heights or on the same level
- 2. Measures used most often to protect workers:
 - Training
 - Restricting access to the work area
 - Using PPE
- 3. Top barriers to implementing controls for struck-by hazards:
 - Lack of training on hazard identification and prevention
 - Scheduling pressure/emphasis on production
 - Lack of understanding of how to address hazards



Behavioral Economics Pilot Study

Key findings continued:

- 4. Respondents indicated training/information is needed on:
 - How to identify and prevent struck-by hazards
 - Conducting a job hazard analysis
 - What is working on other job sites
- 5. Most effective ways to raise awareness and ensure safe practices:
 - Toolbox talks, training programs, and posters

Next steps:

- Develop planning program
- Recruit contractors of various sizes for pilot testing
- Gather feedback and update the program accordingly





2022 Survey Results

Struck-by Hazards, Barriers, and Opportunities in the Construction Industry



AUGUST 2022

EILEEN BETIT, GRACE BARLET, JESSICA BUNTING







Falls Workgroup

Fall Experience Survey



Goal to improve understanding of underlying causes of falls

- Inform ASSP/ANSI voluntary standards
- Create more relevant resources and materials in support of the National Campaign to Prevent Falls in Construction and National Safety Stand-Down
- Improve CPWR outreach and education efforts
- Influence future research on fall safety
- Share data with industry to improve collective fall prevention efforts



Distribution



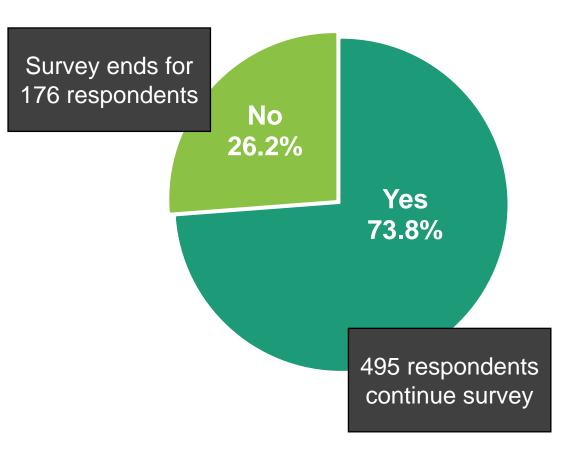


Results

671 total responses

- 658 in English
- 13 in Spanish

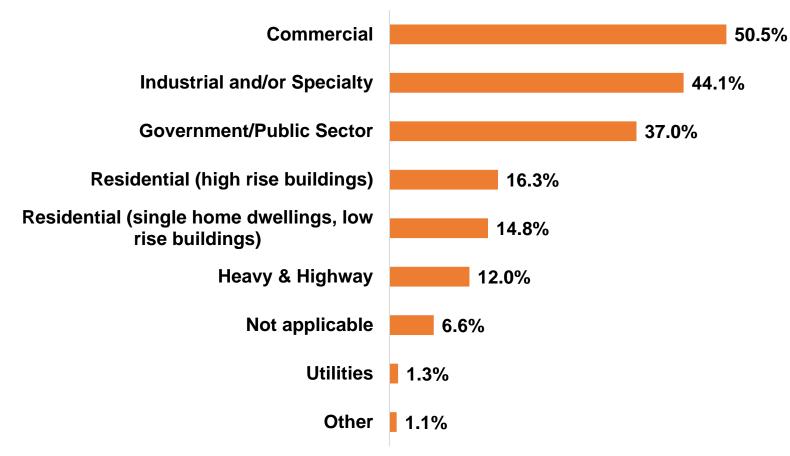
Have you ever been involved in, witnessed, or investigated a fall incident? (N=671)





Who Did We Hear From?

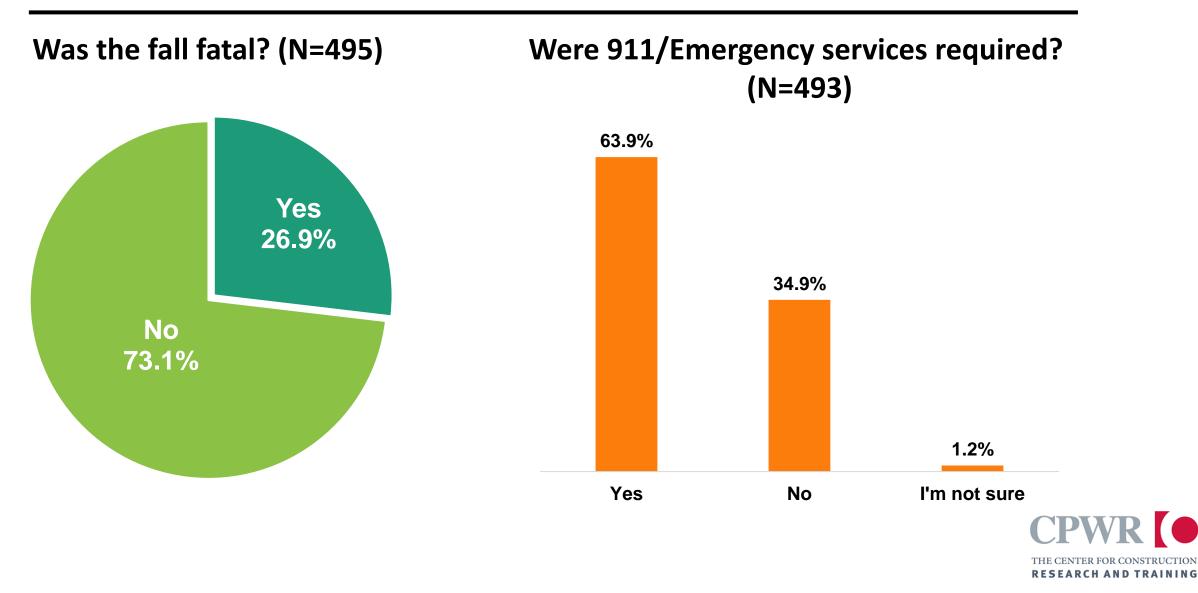
What type of industry segment are you currently involved with? (Select all that apply) (N=467)



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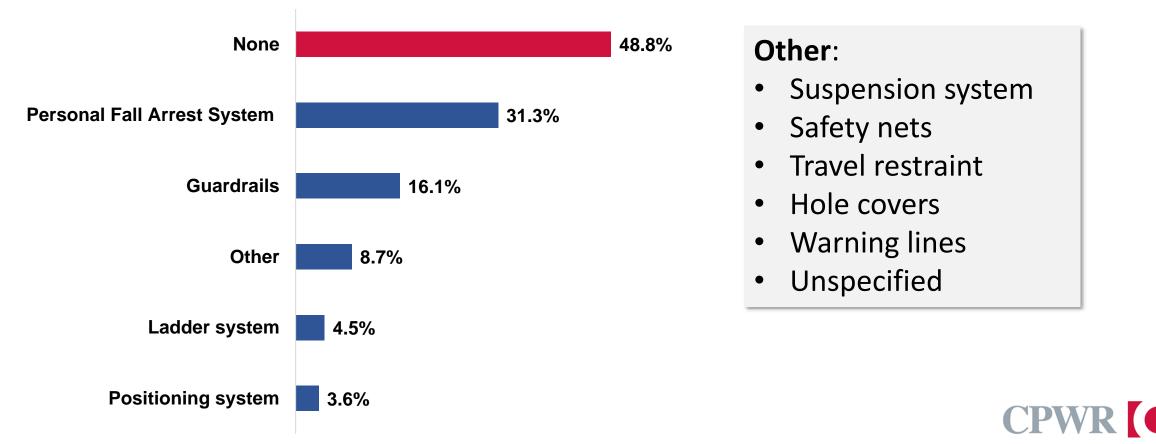
Note: Excludes insurance, equipment manufacturers, and equipment suppliers

Severity of the Fall Incident



Fall Protection

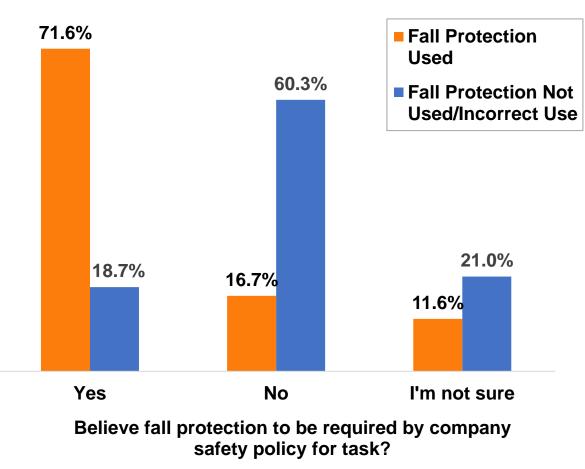
What type of fall protection, if any, was being used at the time of the fall? (Select all that apply) (N=447)



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Fall Protection

Belief that fall protection was required x Fall protection use (N=429)

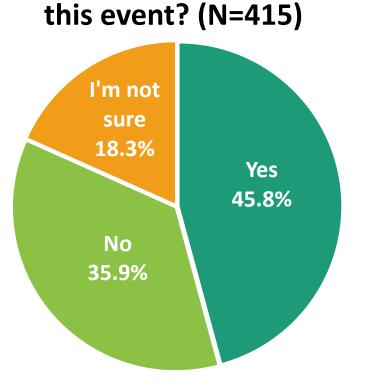


Individuals who believed fall protection was required by their employer were **8 times** more likely to use fall protection compared to those who did not believe fall protection was required

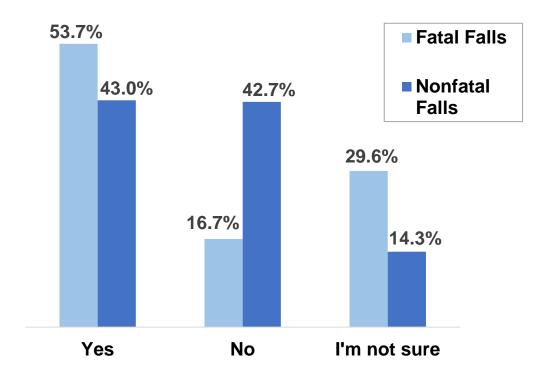


Employer-Implemented Changes

Did the employer institute any significant or sustained changes to their ways of working as a result of



Changes to ways of working x Fatal fall (N=415)







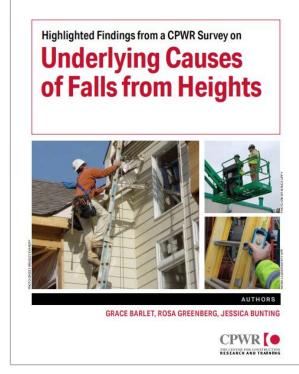
Key findings:

- 1. Respondents believe **lack of adequate planning** is a key underlying cause of falls. Lack of planning is associated with a lower likelihood of using fall protection.
- 2. At the time of the fall, nearly half were not wearing fall protection.
- 4. Employee beliefs about their company's fall protection policy were strongly associated with the use of fall protection.
- 5. Rescue training may help reduce fall-related deaths.



How Are We Using the Results?

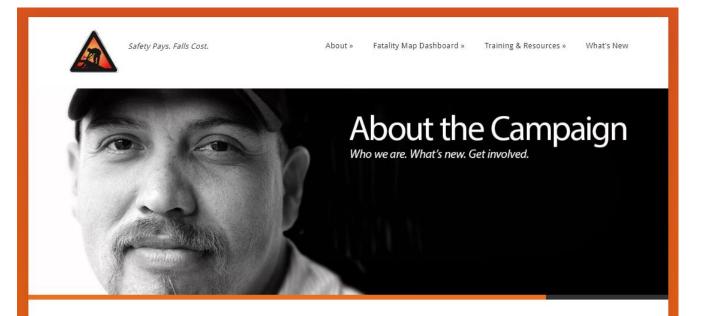
- Sharing findings with industry
- Creating resources and materials in support of the Falls Campaign and Stand-Down
- ASSP/ANSI is using the findings to inform voluntary standards
- Currently putting together an expert panel on fall interventions that will use the findings to identify one or more interventions for CPWR and Falls Workgroup to promote



https://bit.ly/3A8Dkpv







One Stop Stand-Down Shop

In order to make participating in the Stand-Down as easy as possible, we've gathered some of our top resources in one location. Everything you need to conduct a standdown, including worker handouts, training materials, videos, and posters is available here.

To learn more about what the Stand-Down is and why and how you should participate, visit our About the Stand-Down page.

What's New



Recursos en Español

New Spanish-Language Fall Prevention Playlist / Nueva lista de reproducción sobre las caídas en español New CPWR/NIOSH Infographics

About the Campaign

Interested in joining the Campaign? Learn how to <u>Get Involved</u>!

The Campaign to Prevent Falls in Construction began in 2012 with construction industry stakeholders seeking a way to raise awareness. Falls from heights are the leading cause of injuries and fatalities in construction, with those coming disproportionately from small residential construction contractors.

FREE resources:

www.stopconstructionfalls.com

- Planning tools
- Training materials
- Posters and infographics
- And more!

Resources available in English and Spanish

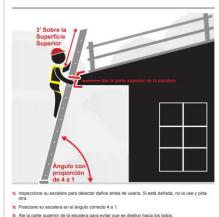


Training Resources

- Toolbox Talks
- Hazard Alert Cards
- Infographics
- Videos
- On-Demand Webinars
- Podcasts
- FACE Reports & Real-life Stories
- Other Handouts for Workers
- Hardhat Stickers
- Research Findings







Caídas:

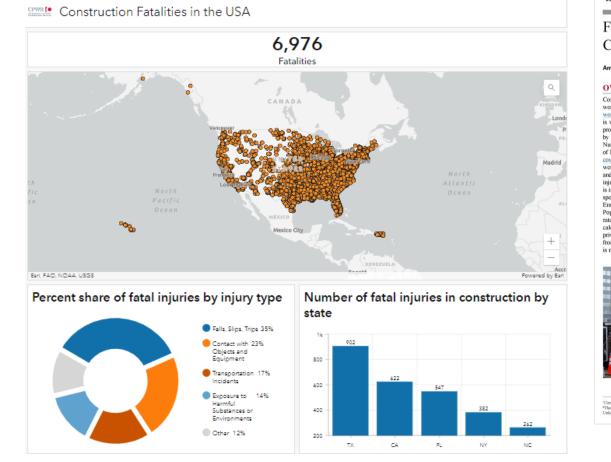
escaleras de extensión





Data Center Resources

- Fatality Map
- Data
 Dashboards
- Data Reports





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Acknowledgements

Jessica Bunting, MPH

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