

NATIONAL SAFETY STAND-DOWN
TO PREVENT FALLS IN CONSTRUCTION

SEPTEMBER 14-18, 2020



National Safety Stand-Down to Prevent Falls Kickoff Event



Opening Remarks



Loren Sweatt

Principal Deputy Assistant Secretary for Occupational Safety and Health

Campaign to Prevent Falls in Construction

Safety Pays. Falls Cost.
stopconstructionfalls.com

Opening Remarks



John Howard, M.D.

Director, National Institute for Occupational Safety and Health



Campaign to Prevent Falls in Construction

Safety Pays. Falls Cost.
stopconstructionfalls.com



G. Scott Earnest, Ph.D., P.E., C.S.P.
Associate Director for Construction, CSH
National Institute for Occupational Safety and Health

September 14, 2020 Joint Webinar



How the Campaign Developed

- NORA Construction Sector Council-led
- Campaign leaders: NIOSH, OSHA and CPWR—The Center for Construction Research and Training
- Evidence-based campaign
- Evaluation essential to demonstrate success



CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Why Focus on Falls?

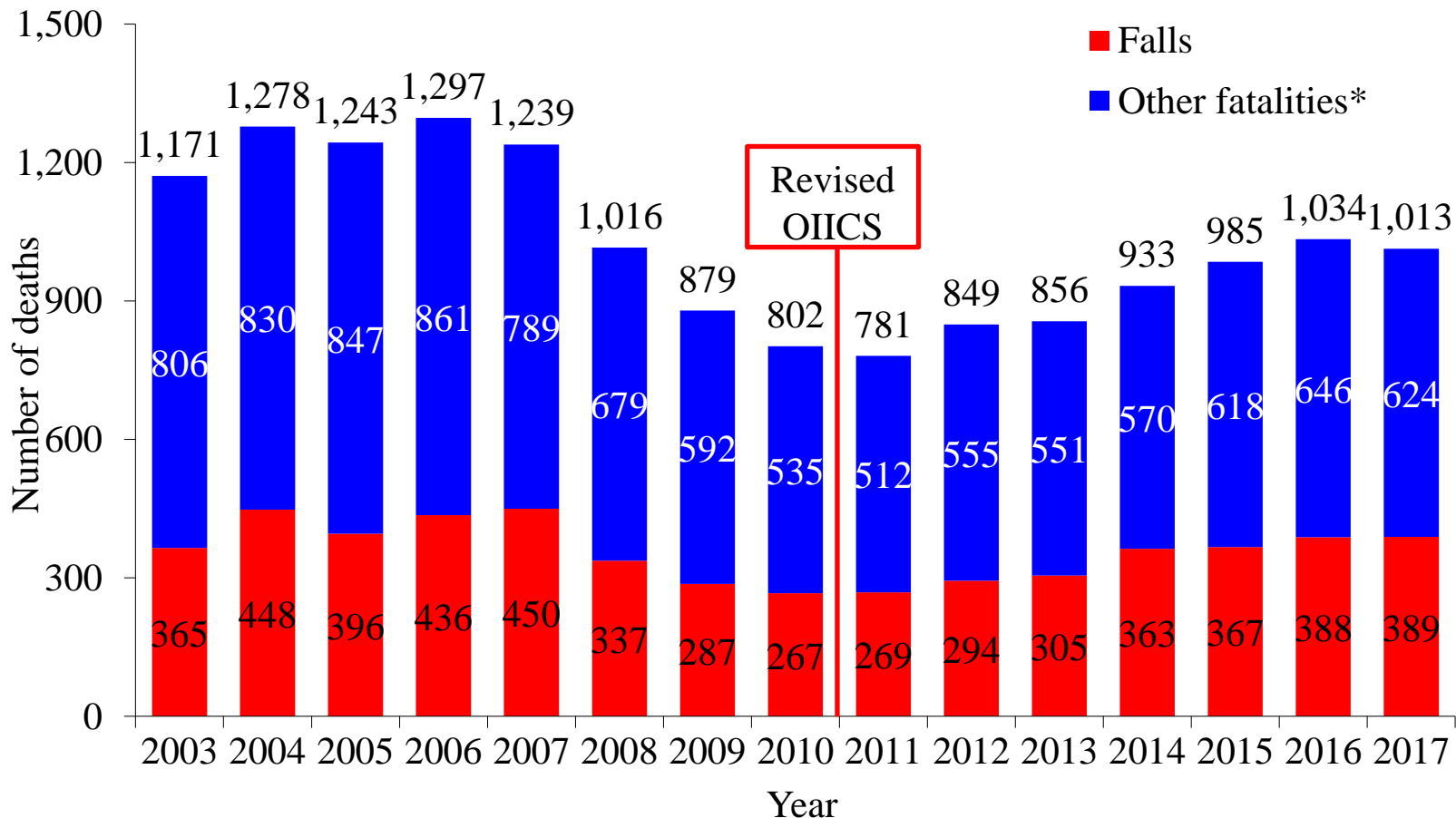


CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Number of fatalities in construction, falls and other fatalities, 2003-2017

Source: *The Construction Chart Book, 6th Edition*, CPWR 2018 using BLS data.



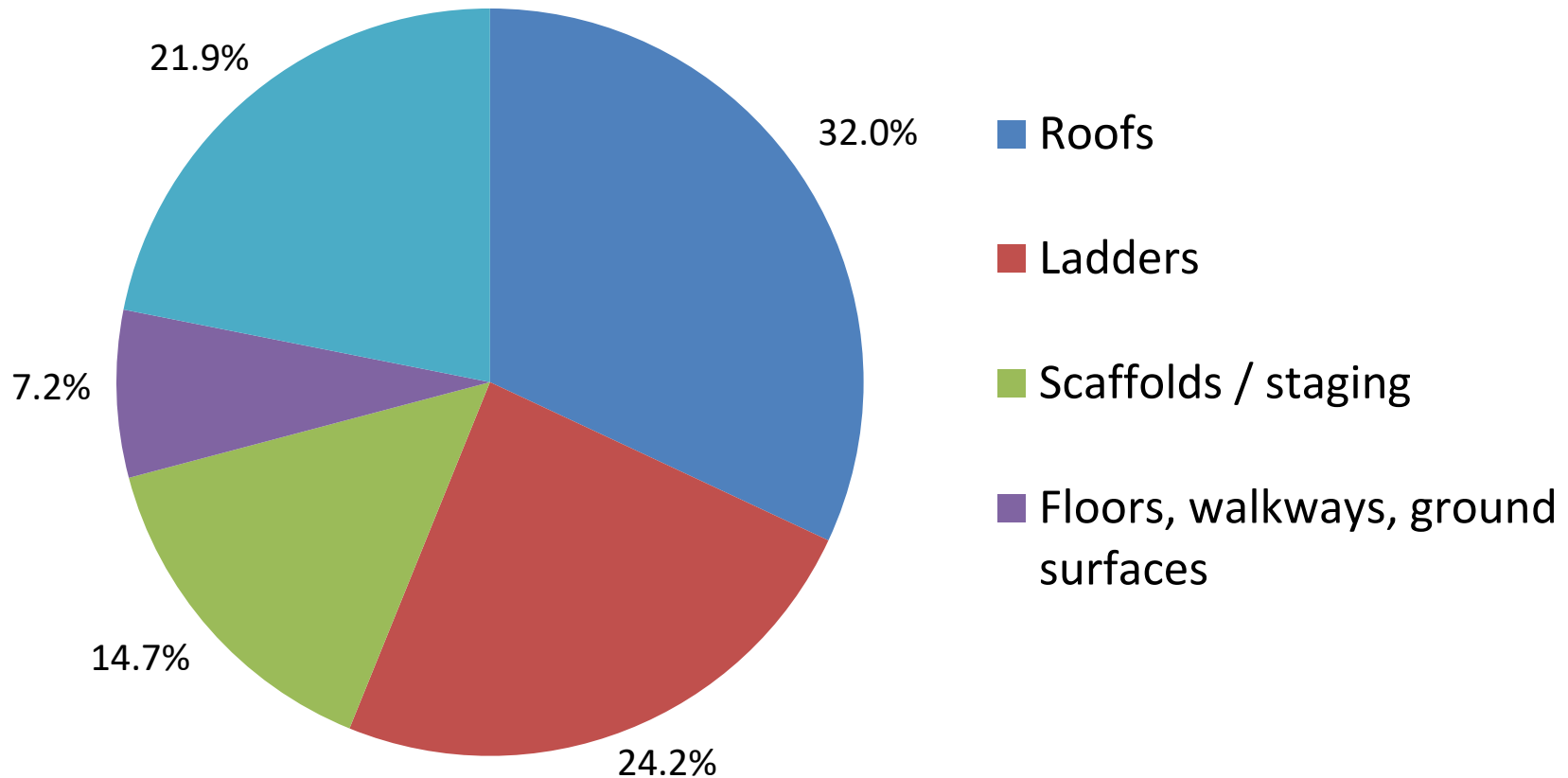
CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Fatal falls to a lower level in construction by primary source, sum of 2015-2017 (All employed)

Source: *The Construction Chart Book, 6th Edition*, CPWR 2018 using BLS data.

Total = 1,092

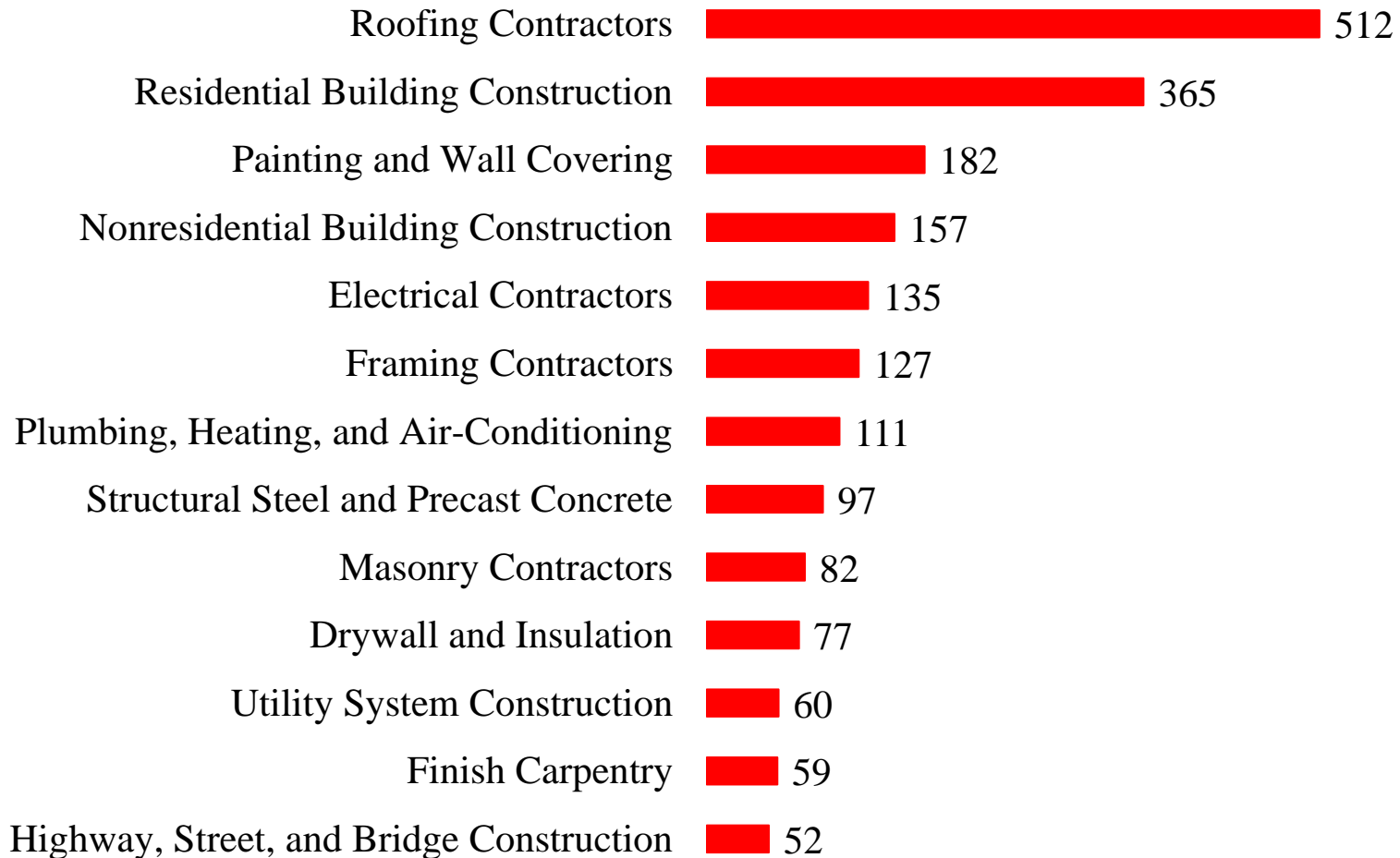


CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Number of fatal falls, selected construction subsectors, sum of 2011-2017 (All employment)

Source: *The Construction Chart Book, 6th Edition*, CPWR 2018 using BLS data.

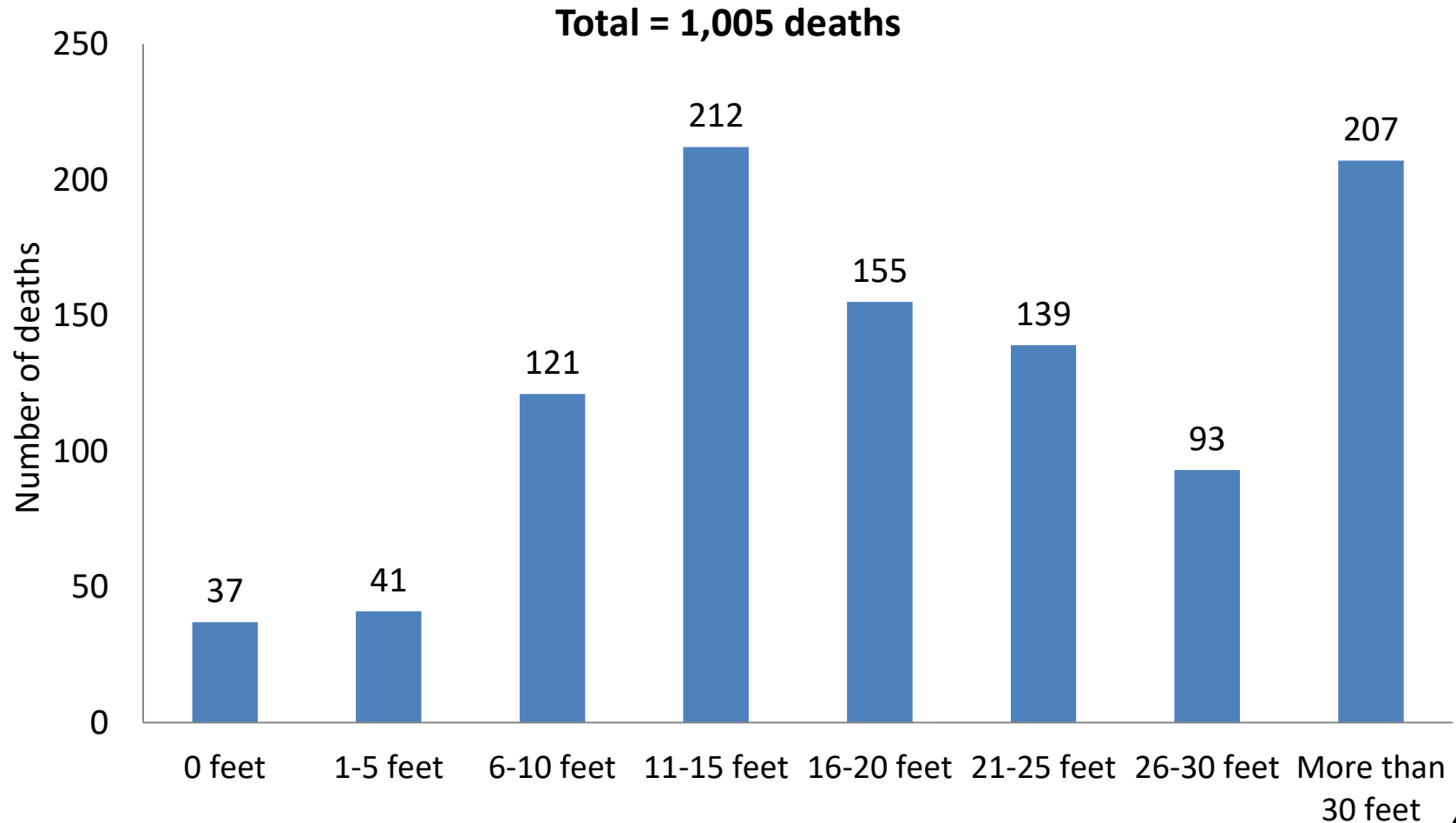


CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Fatal falls in construction, by height of fall, sum of 2015-2017 (All employment)

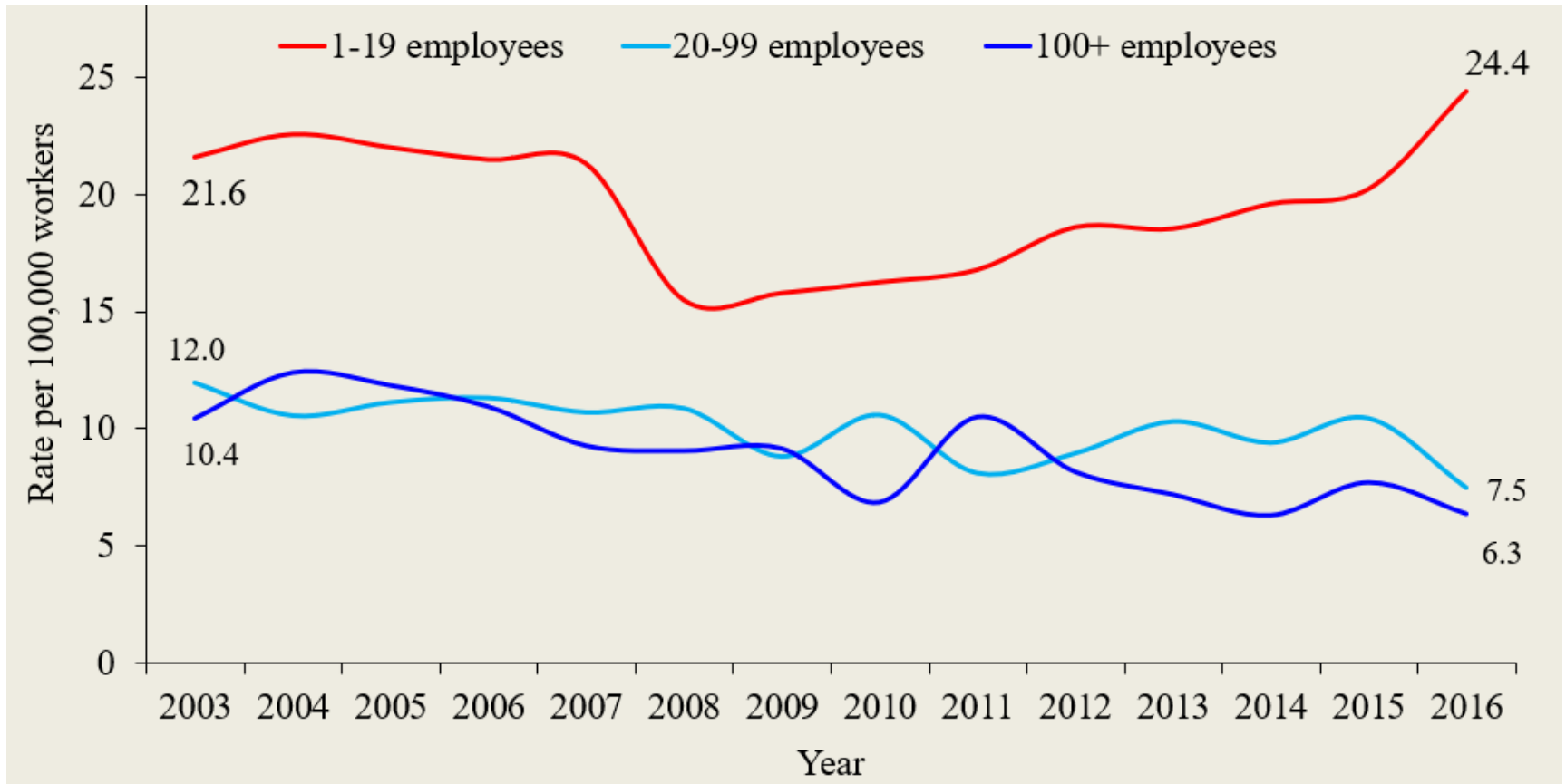
Source: *The Construction Chart Book, 6th Edition*, CPWR 2018 using BLS data.



CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Rates of fatal injuries in construction, by establishment size, 2003-2016 (Wage-and-salary workers)



Source: Fatal injury data were generated by the CPWR Data Center with restricted access to the BLS CFI micro data. The views expressed here do not necessarily reflect the views of the BLS. Employment data were from the Current Population Survey. Calculations by the CPWR Data Center.

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Falls Prevention Campaign – Our Messages

PLAN ahead to get the job done safely

PROVIDE the right equipment

TRAIN everyone to use the equipment safely



PLAN . PROVIDE . TRAIN .

Three simple steps to preventing falls.

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



NIOSH Construction Falls Campaign site

<https://www.cdc.gov/niosh/construction/stopfallscampaign.html>

🏠 NIOSH Directory of Construction Resources

NIOSH Program Portfolio: Construction

NORA Construction Research Agenda

NORA Construction Sector Council

About the Office of Construction Safety and Health

National Construction Center

Promoting productive workplaces through safety and health research 

NATIONAL CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION

[Español \(Spanish\)](#)



The National Campaign to Prevent Falls in Construction was launched in 2012 through the NORA Construction Sector Council with leadership from NIOSH, OSHA and CPWR – The Center for Construction Research and Training. Each year as part of the campaign, a National Stand-Down is held to focus on fall prevention. Falls are the number one cause of construction-worker fatalities, accounting for one-third of all on-the-job deaths in the industry.

Join the campaign and take part in the [2020 National Safety Stand-Down to Prevent Falls in Construction September 14-18](#) [🔗](#).

For More Information

- To become a Campaign partner and/or access materials and resources, visit our main [Campaign site](#) [🔗](#)
- To get information on the [National Safety Stand-Down to Prevent Falls in Construction](#) [🔗](#)
- 2020 Stand-Down [Press Release](#)
- 2020 NIOSH Science Blog: [Stand-Down for Falls in Its 7th Year: Fatal Falls are Falling](#)
- [NIOSH Ladder Safety App](#)
- [Mast Climbing Work Platform Daily Inspection Walkthrough Tool](#)
- [NIOSH Aerial Lift Simulator](#)
- [NIOSH FACE \(Fatality Assessment and Control Evaluation\) Program](#): Search “Residential Construction Falls” or “Commercial Construction Falls” to see factors that led to those fatal injuries and recommendation for preventing similar deaths.
 - [FACE Factsheet: Prevent Construction Falls from Roofs, Ladders, and Scaffolds](#)
- [NIOSH falls-related research](#)

[Information from Previous Years](#)

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



NIOSH Construction Falls Campaign site

NATIONAL SAFETY STAND-DOWN
TO PREVENT FALLS IN CONSTRUCTION

SEPTEMBER 14 - 18, 2020



For more information:
www.osha.gov/StopFallsStandDown
#StandDown4Safety • 1-800-321-OSHA (6742)

4:52 / 5:15

OSHA CDC NIOSH



Stand Down Stories:
Putting Safety First - Baker Roofing Co., Virginia Beach, VA



0:05 / 6:07

CDC NIOSH

OSHA:
Protecting NYC Workers from Falls



0:03 / 7:18

OSHA CDC NIOSH

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Cobranded Infographics

June 2020

SNAPSHOT OF FATAL FALLS IN CONSTRUCTION

In 2018, **FATAL FALLS** accounted for **320 DEATHS** in construction

FALLS FROM ROOFS were the main cause of death for workers **UNDER 44**

FALLS FROM LADDERS were the main source of falls for workers **OVER 55**

Workers **OVER 65 & IMMIGRANT WORKERS** had the highest risk of fatal falls

PLAN. PROVIDE. TRAIN.
Three simple steps to preventing falls.

Join the Campaign to Stop Construction Falls!
www.stopconstructionfalls.com

ODC NIOSH NORA CPWR THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING

Source 1: CPWR Quarterly Data Report, Second Quarter 2019
<https://www.cpwr.com/sites/default/files/publications/Quarter2-QDR-2019.pdf>
Source 2: BLS: 2018 Census of Fatal Occupational Injuries, <https://data.bls.gov/gci/RequestData>

#StandDown4Safety

June 2020

HIGHEST RISK OF FATAL FALLS

ROOFERS HAVE 10X the rate of fatal falls of all other construction occupations combined

FALLS FROM ROOFS account for **33%** of all construction fall deaths

FALLS TO A LOWER LEVEL ARE THE #1 cause of construction fatalities

PLAN. PROVIDE. TRAIN.
Three simple steps to preventing falls.

Join the Campaign to Stop Construction Falls!
www.stopconstructionfalls.com

ODC NIOSH NORA CPWR THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING

Source: The Construction Chart Book, Section 44, Charts 44c and 44e.
https://www.cpwr.com/sites/default/files/publications/The_4th_Edition_Construction_eChart_Book.pdf

#StandDown4Safety

2020 NIOSH-CPWR infographics

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



NIOSH Science Blog

Stand-Down for Falls in Its 7th Year: Fatal Falls are Falling

Posted on August 10, 2020 by Scott Breloff, PhD; Elizabeth Garza, MPH, CPH; Scott Earnest, PhD, PE, CSP; Alan Echt, DrPH, CIH; Christina Socias-Morales, DrPH; Jeanette Novakovich, PhD

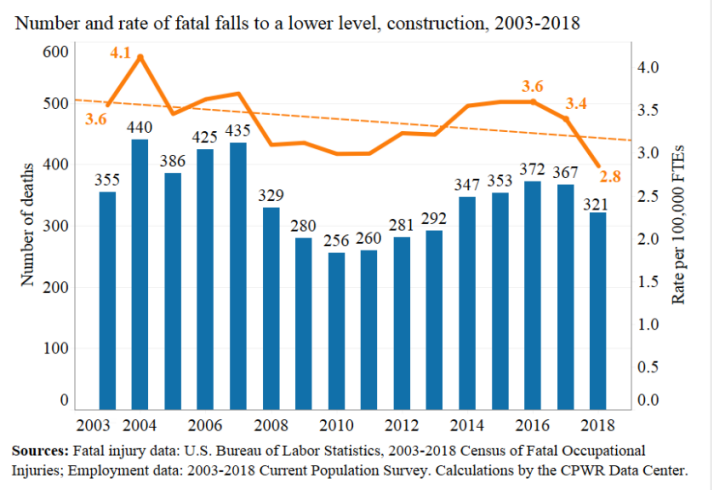


The National Campaign to Prevent Falls in Construction was launched in 2012 through the [NORA Construction Sector Council](#) with leadership from [NIOSH](#), [OSHA](#) and [CPWR – The Center for Construction Research and Training](#). Each year as part of the Campaign, safety stand-downs are held by employers across the country to focus on fall prevention.

The 2020 National Safety Stand-Down to Prevent Falls is set for Sep with [Construction Safety Week](#).

Individual safety stand downs are hosted by employers who choose the workday and educate workers and supervisors about the risks of falls and how to reduce these risks.

Over [the last few years](#), thousands of companies have participated in the Safety Stand-Down, reach workers, across all 50 states and internationally. The Campaign is intended to encourage and educate on how to prevent falls from heights on their worksites following three simple guidelines:



Continued Focus and Outreach to Small Hispanic Residential Construction Contractors



CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



National Safety Stand-Down to Prevent Falls Kickoff Event

Scott C. Ketcham MPA, CSP
Director, Directorate of Construction



NATIONAL SAFETY STAND-DOWN TO PREVENT FALLS IN CONSTRUCTION

SEPTEMBER 14 – 18, 2020



[#StandDown4Safety](#)

OSHA[®] Occupational
Safety and Health
Administration

7th Annual National Stand-Down

September 14-18, 2020

- The goal of the stand-down is to help ensure every worker returns home safely by:
 - raising awareness of fall hazards,
 - sharing how to prevent fatalities and injuries related to falls, and
 - eliminating FALLS – because they are preventable

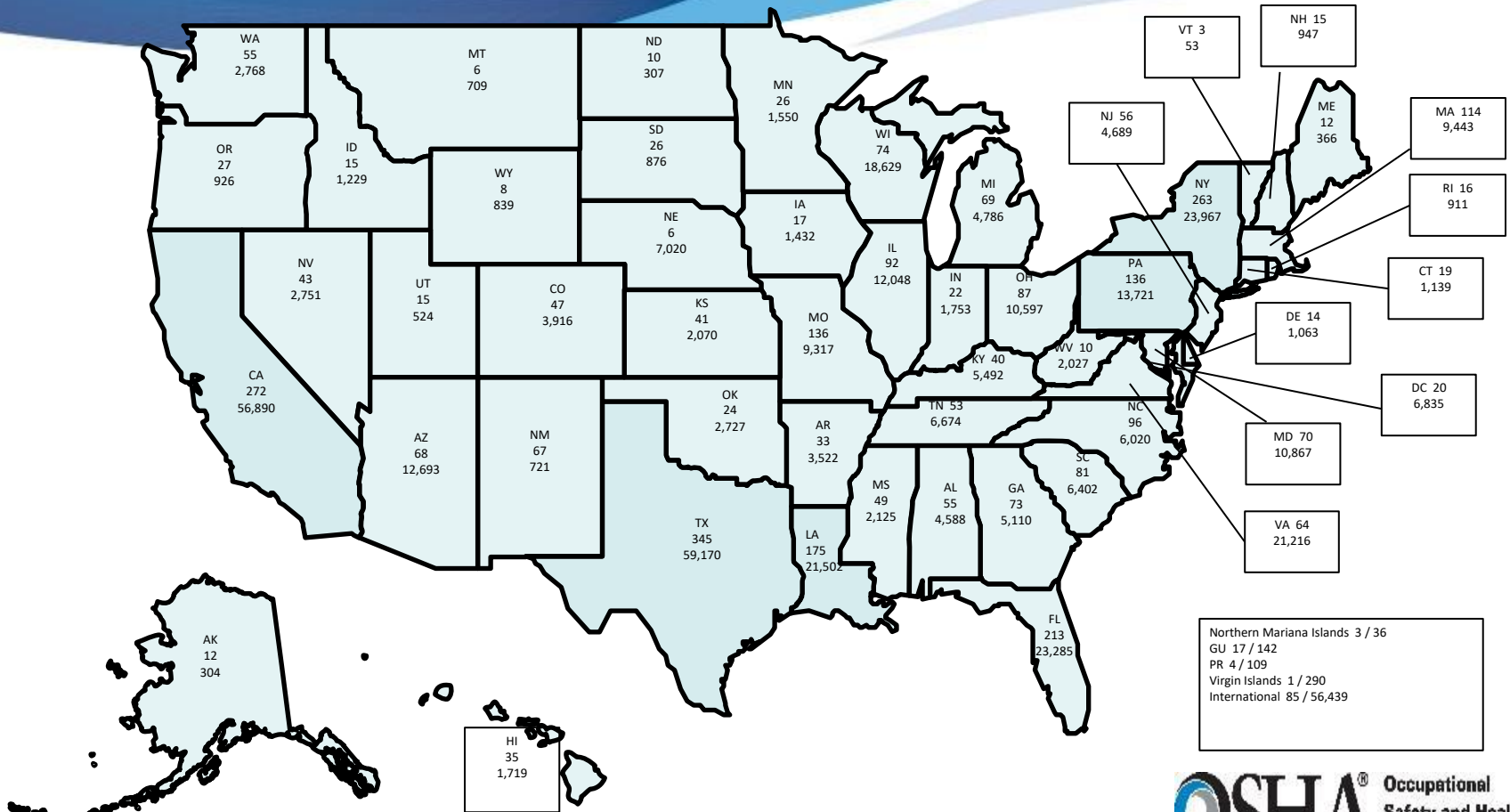
Virtual/Small Group Stand-Downs

- The COVID-19 Pandemic has caused us to change the way we do stand-downs from years past.
- OSHA is now encouraging employers to promote fall safety while holding their stand-downs virtually or while employing social distancing practices among small groups.



www.osha.gov/coronavirus

Fall Stand-Down Participation 2019



Top 10 Violations in Construction



CONSTRUCTION INDUSTRY

1. Fall Protection – General Requirements (1926.501)
2. Scaffolding (1926.451)
3. Ladders (1926.1053)
4. Fall Protection – Training (1926.503)
5. Eye and Face Protection (1926.102)
6. General Safety and Health Provisions (1926.20)
7. Head Protection (1926.100)
8. Specific Excavation Requirements (1926.651)
9. Aerial Lifts (1926.453)
10. Fall Protection Systems Criteria and Practices (1926.502)

SOURCE : OIS
As of 9/30/19

Construction Focus Four

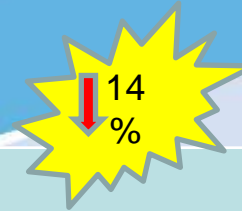
Construction site fatalities in 2018

- Falls: 338 (33.5%);
- Struck by object: 112 (11.1%);
- Electrocutions: 86 (8.5%);
- Caught in/between: 55 (5.5%).



Note: These "Fatal Four" were responsible for more than half (58.6%) of the [construction worker deaths in 2018](#), BLS reports. Eliminating the Fatal Four would save 591 workers' lives in America every year.

Construction Fatal Fall Incidents



Fatal Fall Incidents in Construction - From one level to another

<u>Type of Construction</u>	<u>Number</u>	<u>Percent</u>
Roofing	77	23%
Residential Building	67	20%
Plumbing and HVAC	24	7%
Nonresidential Building	20	6%
Painting and Wall Covering	17	5%
Heavy and Civil Engineering	16	5%
Electrical	15	5%

Source: BLS 2018 CFOI Data

Fall Fatalities in Residential Construction

Year	2014	2015	2016	2017	2018
Total Construction Falls	359	364	384	386	338
Total Residential Falls	55	62	63	65	67
Residential Falls to a Lower Level	52	61	61	62	65

Source: BLS Data

Stand-Down Resources

Click the “Resources” tab on OSHA’s National Safety Stand-Down webpage for free fall prevention materials such as training guides, stickers, fact sheets, and videos (available in English and Spanish).

www.osha.gov/StopFallsStandDown/

**Falling Off
Ladders Can Kill:
Use Them Safely**

**Las caídas desde
escaleras pueden
ser mortales:
Úselas de forma
segura**



www.osha.gov/stopfalls
www.osha.gov/stopfalls/spanish



OSHA 3625-09R 2015

Falls from ladders, scaffolds and roofs can be prevented

Las caídas desde escaleras, andamios y techos pueden prevenirse



OSHA



OSHA® Occupational
Safety and Health
Administration

After the Stand-Down

CERTIFICATE
OF RECOGNITION

The Occupational Safety and Health
Administration recognizes

Your Company Name
Project Title

for participating in the OSHA
**2020 National Safety Stand-Down
to Prevent Falls in Construction**


Scott C. Ketcham, Director
Directorate of Construction


Safety Pays. Falls Cost.



Receive a “Certificate of Participation”

- Go to the stand-down certificate webpage.
- Share your experience and pictures with us.

Staying Safe During COVID-19

Remember to:

- Stay home if you are sick.
- Wash your hands with soap and water or alcohol-based hand rubs containing at least 60% alcohol.
- Wear a face covering.
- Continue social distancing.
- Avoid sharing equipment and tools.



www.osha.gov

800-321-OSHA (6742)



Campaign to Prevent Falls in Construction

Safety Pays. Falls Cost.
stopconstructionfalls.com


Resources for the Stand-Down & Year-Round

Chris Trahan Cain
Executive Director
**CPWR – The Center for
Construction Research & Training**




Stopconstructionfalls.com

stopconstructionfalls.com/one-stop-stand-down-shop



Safety Pays. Falls Cost.

[About »](#) [Fatality Map »](#) [Training & Resources »](#) [What's New](#)



About the Campaign

*Interested in joining the Campaign?
Learn how to [Get Involved!](#)*


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

What's New

Check back as we approach the Stand-Down on Sept 14th-18th for more ideas and information on conducting a virtual or socially distanced stand-down.

[2020 Stand-Down Week Webinars](#)
Live webinars to attend during the week of the Stand-Down.

2020 Stand-Down Plan



Looking for ideas to safely participate in the 2020 Safety Stand-Down? Use this resource, [Standing Down for Fall Safety in 2020:](#)

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



2020 Stand-Down Plan

STANDING DOWN FOR FALL SAFETY IN 2020:

Ideas for Virtual or Socially Distanced Stand-Down Events

September 14-18th is the 7th annual National Safety Stand-Down to Prevent Falls in Construction – an opportunity to pause work on jobsites across the country and talk about fall safety with crews large and small. Much like work and life in general, however, your stand-down activities might look a little different during the pandemic this year. Below are several ideas for holding an event with employees virtually or in person at a safe distance. Be sure to follow the most [recent CDC guidelines](#) and [other guidelines for the construction industry](#) to protect yourself and others from the spread of COVID-19.

1. Host or Attend a Virtual Event...

OPTION #1 – Use Zoom, Microsoft Teams, or another online platform to hold a meeting to review fall safety basics, conduct a training, or remind employees of company policies for fall prevention and protection.

OPTION #2 – Attend a live webinar. OSHA, NIOSH & CPWR will host a [2020 Kick-Off Webinar Monday 9/14](#) and additional events during the week, and OSHA's [Stand-Down calendar](#) lists virtual events open to the public.

OPTION #3 – Hold a virtual meeting using an online platform to watch [an on-demand webinar or other video](#), such as pre-recorded webinars about joining the Stand-Down, roofer safety, fall rescue, and Q&A with a panel of ANSI Z-359 experts. Then use some time at the end for a live discussion.

2. Share short videos or podcasts...

Not enough time for a meeting or event? Share [short videos or podcasts](#) with your crew that can be viewed or listened to on a break or during the commute. Then talk about it for a few minutes at a morning meeting – but remember to stay 6 feet apart!

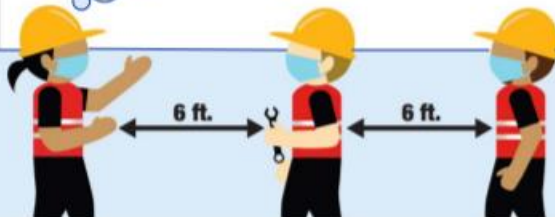
Check out [CPWR's YouTube playlist](#) on falls, with new videos from NIOSH.

3. Conduct a Toolbox Talk or Fall Protection Demo

You can still do some of the activities you would do during any Stand-Down. Conduct a [toolbox talk](#), safety presentation, or fall protection demonstration, making sure workers are **at least 6 feet apart and wearing face coverings**.

CPWR 
THE CENTER FOR CONSTRUCTION
RESEARCH AND TRAINING

September 8th, 2020



4. Inspect, Clean, and Disinfect...

Ask workers to inspect equipment before use. **Broken or damaged equipment should be tagged and removed.**

Shared equipment can expose workers to diseases. Ask workers to clean and disinfect equipment during pre-shift inspections and when shared with other workers. Use products that meet [EPA's criteria for use against SARS-CoV-2](#) external icon, [diluted household bleach solutions](#) prepared according to the manufacturer's label for disinfection, or alcohol solutions that have at least 70% alcohol and are appropriate for the surface. Talk to your manufacturers and check the [CPWR COVID-19 Construction Clearinghouse](#) for additional info.



5. Complete or Review Your Written Fall Protection Plan...

Do you have a written fall protection and rescue plan? If so, can it be improved? If not, use [this generic template](#) to create one for your jobsite. For small employers or those just beginning to plan for falls, [click here for a shorter, simpler plan](#) (also available in Spanish).

6. Hold a Family Poster Contest...

Ask workers to create a fall safety poster at home with their families – the exercise will reinforce the importance of job site safety and help workers associate it with coming home safe and healthy to their families. To make the contest virtual, ask each employee to snap a photo and post it to social media while tagging your company.

Don't forget to use #StandDown4Safety; then hang the posters at work.



7. Share Your Story...

Has fall protection saved your life? Send an email to falls@cpwr.com and tell us your story. We may publish or post it after talking to you so that others can learn from your first-hand experience.

8. Get a Certificate of Participation... Visit [OSHA's website](#) to print a certificate.



For more Stand-Down resources, 2020 hardhat stickers, and materials to improve fall safety year-round, visit stopconstructionfalls.com!

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Virtual Events

Videos and On-Demand Webinars

New Podcast: 7th Annual Safety Stand-Down Event

In Episode 4 of CPWR: Construction Safety and Health, Dr. G. Scott Earnest, Associate Director for Construction, Office of Construction Safety and Health, NIOSH, discusses the National Campaign to Prevent Falls in Construction and its landmark Safety Stand-Down event. The event will take place nationwide September 14- 18, 2020. This year may look different due to COVID-19, but CPWR, NIOSH, and OSHA will host the event virtually or at a safe social distance.



NEW: Videos from NIOSH

Stand Down Stories: Putting Safety First- The Outer Banks, North Carolina

Group, individual and OSHA training is provided as part of a local stand-down in support of the National Safety Stand-Down annual event. Many of the trainings take a hands-on approach to safety training on ladders, safety harnesses, guardrails, and fall arrest systems. Falls are a major safety concern in the construction industry. Large or small, it's important that you make your stand down plan now.

Stand Down Stories: Putting Safety First- Baker Roofing Co., Virginia Beach, VA

The National Safety Stand-Down to Prevent Falls in Construction campaign events are organized through partnerships with the Occupational Safety and Health Administration, the Center for Construction Research and Training, members of the National Occupational Research Agenda Construction Sector Council, along with other stakeholders including large and small construction firms. Falls are a major safety concern in this industry and others. The Stand-Down events provide a hands-on approach to safety training on topics related to falls, including ladders, safety harnesses, guardrails, scaffolding, lifelines, rope grabs, and personal fall arrest systems. Employers make your stand down plan now.

Massachusetts FACE: Protecting Our Workers

The Massachusetts Fatality Assessment and Control Evaluation (FACE) Program is participating in the National Safety Stand-Down to Prevent Falls in Construction this year. Falls are a major safety concern in the construction industry. The Massachusetts FACE program has developed a series of fall prevention brochures on scaffolding, falls, ladder safety, and personal fall arrest systems that are widely distributed at stand-down events to large and

- 2020 Stand-Down Week Webinars
- On-Demand Webinars & Videos
- New Podcast

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Stand-Down Promotional Tools

- Podcast
- Promotional Video - https://youtu.be/ke1L_ROExdE
- About the Stand-Down Flyer
- Social Media Posts } **English & Spanish Infographics**
- Jobsite Posters



Trabajar en alturas: Escaleras

Entre 2015 y 2017, 1 de cada 4 muertes relacionadas con caídas fueron desde una escalera.

Si necesita usar una escalera, siempre:

- ¡Revise la escalera antes de usarla! Si observa daños, etiquétela "no usar" y pida otra escalera.
- Asegúrese de que la escalera pueda soportarlo a usted con su cinturón; revise la carga de trabajo de la escalera.
- Ubique la escalera sobre una base sólida y estable.
- Mantenga tres puntos de contacto con la escalera para mantener el equilibrio.
- Encare la escalera al subir o bajar.

Al usar...

Una escalera de extensión:

- Ubique la escalera en un ángulo correcto de 4:1*
- Amarre y asegure la parte superior e inferior de la escalera, o use a otro trabajador.
- Extienda la escalera al menos 3 pies por encima del nivel al que está subiendo y los rieles laterales al menos 1 pie por encima del peldaño superior.

Una escalera de tijera:

- Nunca se pare en el último escalón o parte superior de la escalera.
- Siempre ubique la escalera cerca del lugar de trabajo para evitar estirarse demasiado.

¡Únase a la campaña para acabar con las caídas en la construcción!

www.stopconstructionfalls.com

*Use la aplicación gratuita de cómo usar escaleras del Instituto Nacional de Seguridad y Salud Ocupacional (National Institute for Occupational Safety and Health). Acceda y/o descargue el ángulo correcto: <https://www.cdc.gov/niosh/publications/stepladder.html>.

Fuente: The Construction Chart Book, Redon 44, Chart 44c: <https://www.census.gov/chart-book/files/chart-book-11-10-17.pdf>. Fuente: Fall-Prevention-Tool-Construction.

PLÁNTIQUÉ PROPORCIONE ADIESTRE
They please instruct for preventor caídas.

#StandDown4Safety

JULY 2020

Choosing the Right Anchorage

for your personal fall arrest system

DO USE: Certified anchorages that meet or exceed OSHA regulations.

All anchorages should be:

- Designed before construction begins
- Independent of anchorages used to suspend other employees or work platforms

AND

- Properly marked and rated for 5,000 lbs per employee attached

OR

- Designed, installed, and used under supervision of a qualified person, as part of a complete personal fall protection system that maintains a safety factor of at least 2

Engineered anchor point systems typically exceed regulations and are the safest option.

DO NOT USE: Certified anchorages that do not meet or exceed OSHA regulations.

Engineered anchorages can be temporary or permanent:

- If temporary, use an anchorage structure that is strong, secure and immobile, such as a secured I-beam.
- If permanent, they can be used after construction for window washing and maintenance.

They may not be designed for use with horizontal lifelines. Talk to a competent person to determine if a leading edge solution is required.

When engineered anchor points are unavailable, existing support beams, columns, or other structures may be used, but be careful! Don't use an existing structure unless you are sure the structure will support at least 5,000 lbs per employee.

PLAN, PROVIDE, TRAIN
Three essential steps to preventing falls

DO NOT USE bad anchor points, such as:

- Vents or stand pipes
- Railings/guardrails
- Air vents/ductwork
- Fixed ladders
- Electrical conduits
- Air conditioning units
- Skylights/light fixtures

Join the Campaign to Stop Construction Falls!

www.stopconstructionfalls.com

#StandDown4Safety

Source: OSHA CH-11-10-17-0212-1719-1913-4097-19. <https://www.osha-slc.gov/stand-down>
<https://www.stopconstructionfalls.com>

JULY 2020

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Additional Training Resources

HAZARD ALERT
CPWR
RESEARCH AND TRAINING

LADDERS

Am I in danger?
If you use a ladder on a construction site, then the answer is **YES**.
Falls are the leading cause of death and injuries in the construction industry.
• Each year, more than 4,000 construction workers are injured so seriously by ladder falls that they miss work.
• Each year, about 70 construction workers DIE in falls from ladders.

Electrocution Hazard
Falls aren't the only way to get hurt on a ladder! Contact with overhead power lines is a common, and sometimes fatal, source of injury for those working with ladders. Make sure your ladder is positioned at least 10 feet from power lines.
Aluminum is an excellent conductor of electricity. Working around wiring? Fiberglass is a better choice.

Find out more about construction hazards.
Get more of these Hazard Alert cards — and cards on other topics.
Call 301-578-8500

TOOLBOX TALK
RESEARCH AND TRAINING

Aerial Lift Safety

1 Inspect your ladder before you use it. **Not every defect is this obvious.**

2 Make sure you take the all could save your life.

3 ladders. Do not use them if you have a repair. **is a ladder tool for the scaffold or work platform. substantially reduced.**

wheel chocks
outrigger

- ✘ Set outriggers, brakes, and wheel chocks — even if on a level surface.
- ✘ Stand on the floor of the bucket. **Do not** climb on or lean over the guardrails.
- ✘ Wear fall arrest equipment with lanyard attached to a designated anchor point.

©2017 CPWR — The Center for Construction Research and Training. All rights reserved. CPWR is the research and training arm of NIOSH. Production of this document was supported by cooperative agreement OH 00712 from the National Institute for Occupational Safety and Health (NIOSH). The contents are solely the responsibility of the authors and do not necessarily represent the official views of NIOSH.

CPWR
THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING

- **Infographics** (English & Spanish)
- **Videos** (English & Spanish)
- **Hardhat Stickers**
- **Hazard Alert Cards** (English & Spanish)
- **Toolbox Talks** (English & Spanish)
- **NIOSH Ladder App & Aerial Lift Simulator**

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Online Ordering Form



<http://stopconstructionfalls.com/online-ordering-form/>

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Small Contractor Resources

<https://stopconstructionfalls.com/prevent-falls-training-other-resources/plan-provide-train/>

Small Contractors: Plan. Provide. Train.



PLAN. PROVIDE. TRAIN.

Three simple steps to preventing falls.

[Home](#)

[Plan](#)

[Provide](#)

[Train](#)

[En español](#)

Save Your Company Time and Money by PREVENTING FALLS

Click on the **links** below to find free tools and materials to help you:

1. **Plan** ahead to prevent falls on the job
2. **Provide** the right tools and equipment for the job
3. **Train** your employees on the equipment and work practices to prevent falls
 - **Videos** to watch and learn
 - **Toolbox Talks** to help talk to your employees about safety
 - **Hazard Alert Cards** to give to your employees as reminders of safe practices

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Evaluation Efforts

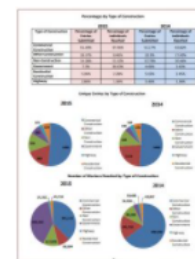
<https://stopconstructionfalls.com/about-the-campaign/evaluation-efforts/>

Evaluation Efforts

Whenever possible, we have taken advantage of opportunities to evaluate reach and participation in the Campaign and National Safety Stand-Down. Based on those efforts, we have developed the following reports and stories.

CPWR Analyses of OSHA Collected Stand-Down Participation Data – During each annual Safety Stand-Down OSHA offers certificates of participation for companies that hold their own stand-downs. Several years of that data has been analyzed confidentially and in aggregate by CPWR.

- [2014 & 2015 Data Analysis](#)
- [2016 Data Analysis](#)
- **New!** [2019 Data Analysis: Factsheet](#) and [Full Report](#)



Social Network Analysis of the Falls Campaign – In 2017, five years after the Falls Campaign's conception, CPWR approached the Center on Network Science (CNS) at the University of Colorado Denver, to conduct a Social Network Analysis (SNA) on the network that has been developed through the Falls Campaign. CNS conducted the SNA using an online survey of known Campaign partners via the PARTNER Tool (www.partnertool.net). [Read the Executive Summary here.](#)

Hardhat Sticker Ordering Form Data – CPWR has been disseminating fall-related Hazard Alert Cards in the months leading up to the annual Stand-Down since 2014, as well as Stand-Down hardhat stickers since 2015. With the introduction of an online ordering form in 2017 and coordinated promotion with OSHA and NIOSH, we have seen increases in the number of orders each year. In 2019, we disseminated all 375,000 stickers we had printed, and even began sending out the artwork for companies to print their own stickers.

	2014	2015	2016	2017	2018	2019
Hardhat Stickers	--	50,000	50,000	173,000	260,000	375,000
Hazard Alerts	1,800	9,186	14,100	70,215	142,213	280,000+

Success Stories – In order to highlight successful stand-down efforts and give others ideas, we have worked with individual companies to write a number of Stand-Down success stories.

- [2017 Success Stories](#)
- [2015 Success Stories](#)
- [2014 Success Stories](#)

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



NEW! Data Bulletin: *New Trends of Fatal Falls in the Construction Industry*

CPWR  **Data Bulletin** THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING WWW.CPWR.COM **SEPTEMBER 2020** SPECIAL ISSUE

New Trends of Fatal Falls in the Construction Industry

Samantha Brown, MPH, Raina D. Brooks, MPH, Xiuwen Sue Dong, DrPH*

OVERVIEW

The seventh annual [National Safety Stand-Down](#) is taking place this month despite the COVID-19 pandemic. This event is part of the [National Campaign to Prevent Falls in Construction](#) that was launched in 2012 by the National Occupational Research Agenda (NORA) Construction Sector Council, CPWR – The Center for Construction Research and Training, the National Institute for Occupational Safety and Health (NIOSH), and the Occupational Safety and Health Administration (OSHA). The campaign aims to raise public awareness of fall hazards and to reinforce the importance of fall prevention. To support the campaign, this special issue of the Data Bulletin reports trends of fatal falls in the construction industry, highlighting changes in fatal falls to a lower level in recent years based on the most recent data. The fatality numbers were obtained from the U.S. Bureau of Labor Statistics (BLS) Census of Fatal Occupational Injuries (CFOI). Construction employment was estimated from the Current Population Survey (CPS). To calculate injury rates, employment was adjusted for the number of hours worked (full-time equivalent or FTE), assuming that full-time employees work 2,000 hours per year.

NATIONAL SAFETY STAND-DOWN
TO PREVENT FALLS IN CONSTRUCTION

SEPTEMBER 14–18, 2020



THIS ISSUE

In support of the 2020 National Safety Stand-Down to Prevent Falls in Construction, this special issue reports recent trends of fatal falls in the construction industry.

KEY FINDINGS

- In 2018, the number of fatal falls in construction decreased to 340 from 389 in 2017 despite an increase in overall fatalities. *Chart 2*
- The rate of fatal falls to a lower level in construction dropped to 2.8 per 100,000 full-time equivalent (FTE) workers in 2018, its lowest point since 2003.¹ *Chart 4*
- Both the rate and number of fatal falls to a lower level in construction decreased consecutively in 2017 and 2018, dropping a total of 20.6% and 13.7%, respectively. *Chart 5*
- The number of fatal injuries associated with the three primary sources of fall hazards (roofs, ladders, and scaffolds) all decreased from 2016 to 2018. *Chart 6a*
- From 2016 to 2018, fatal falls to a lower level dropped 15.4% in the Roofing subsector, but increased 6.6% in Residential Building Construction. *Chart 6b*

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



After the Stand-Down



11 Ways to Keep Your Fall Prevention Program Alive All Year Long

The Stand-Down may be over, but the Campaign to Prevent Falls in Construction is year round! Here are some reasons to conduct fall prevention activities throughout the year to reinforce safe practices:

- ❖ Jobsites are always changing and crews come and go –you may have many new workers present who were not around when you participated in the Stand-Down in May.
- ❖ Even if your crew did participate in the Stand-Down, it's easy to become complacent afterward. Scheduling activities quarterly or even monthly can re-energize your crew and bring the focus back to the fact that falls need to be prevented.
- ❖ If your jobsite does experience a fall – even if nobody is injured – workers may feel upset, anxious, and worried about their safety. Taking the time to perform an incident investigation and stopping work to re-focus on fall protection policies and education can improve both safety and morale.

If your jobsite experiences a fall, at a minimum, you should:

- 1. Determine the cause of the fall,**
- 2. Inspect and remove faulty personal fall arrest systems or equipment, such as ladders or scaffolds, that may have contributed to a fall from use,**
- 3. Have an open conversation with workers about their concerns,**
- 4. Conduct a refresher training on fall prevention, and**
- 5. Communicate the importance of fall protection throughout the organization.**

CPWR, OSHA and NIOSH have a variety of resources that you can use when deciding what activities will work for your jobsite's ongoing fall prevention program. Be imaginative and select activities that fit your company's culture and the kind of construction work you do. The following list of ideas may help you get started:

CAMPAIGN TO PREVENT FALLS IN CONSTRUCTION: SAFETY PAYS. FALLS COST.



Campaign to Prevent Falls in Construction

Safety Pays. Falls Cost.
stopconstructionfalls.com

QUESTIONS?

