



Occupational Safety and Health Administration

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800-321-OSHA (6742)



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OSHA Update

David Michaels, PhD, MPH
Assistant Secretary of Labor
for Occupational Safety and Health
October 20, 2014



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OSHA's Continuing Mission

- More than **4,000** Americans die from workplace injuries every year.
- Perhaps as many as **50,000** workers die from illnesses in which workplace exposures were a contributing factor.
- More than **3 million** workers suffer a serious non fatal injury or illness annually.

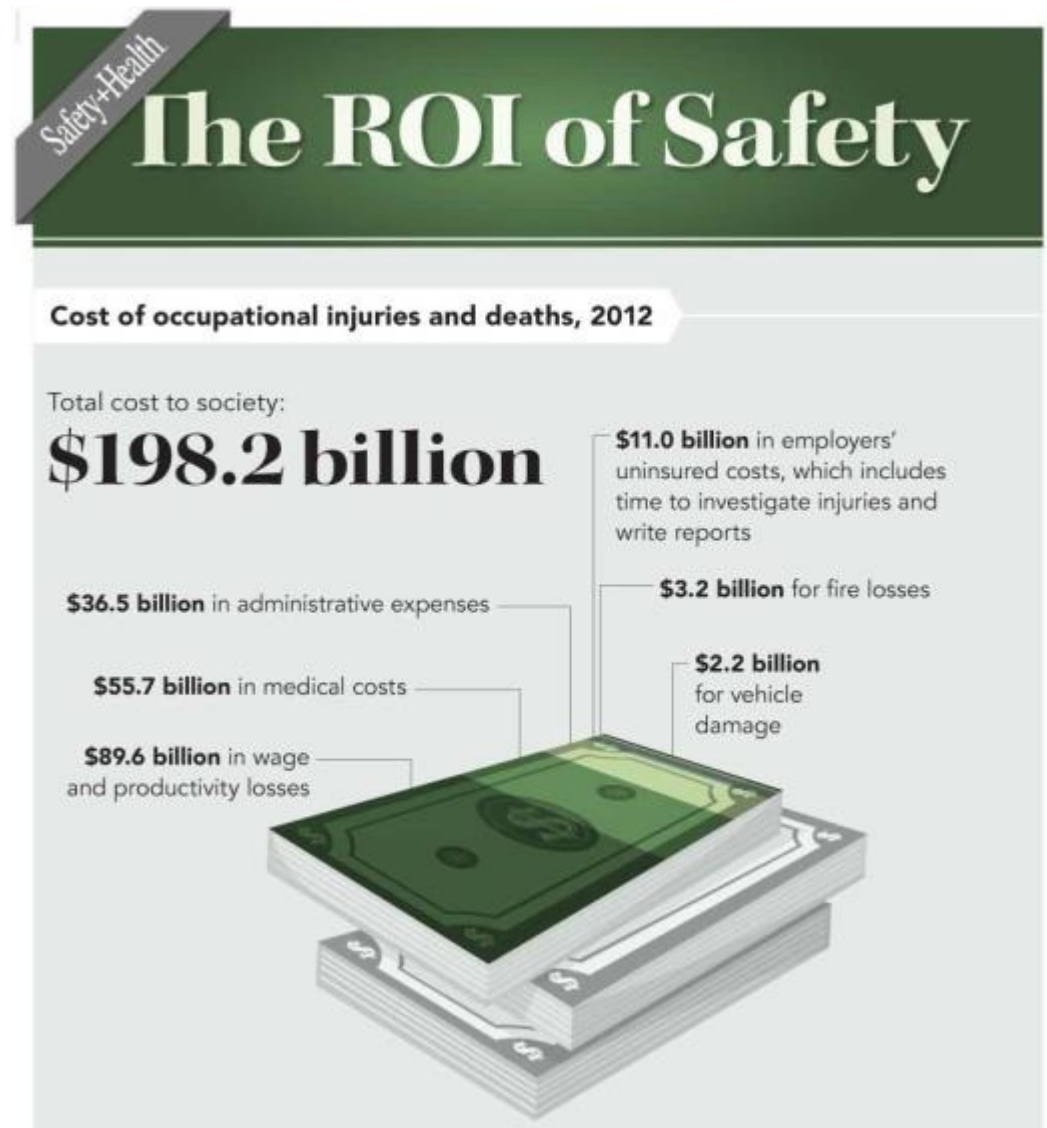


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**Workplace
injuries and
fatalities
cost our economy
\$198.2 billion
a year.**

— National Safety Council
“Injury Facts” 2014





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LEVELING THE PLAYING FIELD

OSHA levels the playing field for responsible employers competing with those who are trying to cut corners and costs on worker safety.

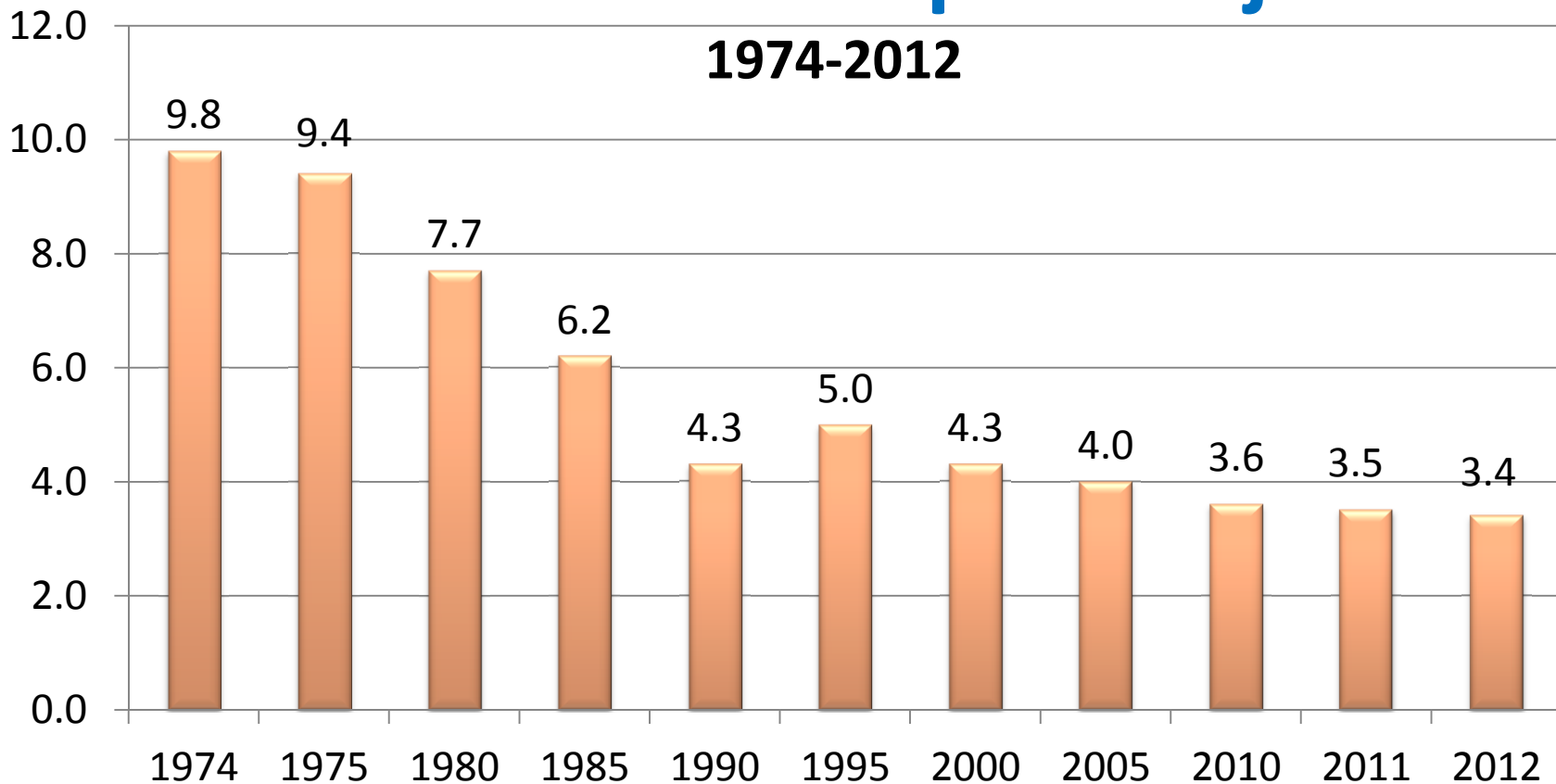




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Rate of fatal workplace injuries



There are two breaks in the series. In 1991, BLS switched from estimating Fatality rates from their survey, to conducting a Census of Fatal Injuries (CFOI). In 2006, BLS switched from an employment-based fatality rate to an hourly-based fatality rate.



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Nail Gun Safety
A Guide for Construction Contractors

The poster features a blue-tinted X-ray of a human hand and forearm. A white nail gun nail is shown penetrating the palm of the hand. The background is black.

At the bottom of the poster, there are four logos: the OSHA logo, the NIOSH logo, the U.S. Department of Labor logo, and the U.S. Occupational Safety and Health Administration logo.

Stay Healthy and Safe
While Giving Manicures
and Pedicures

A Guide for Nail Salon Workers

The illustration shows a manicurist in a purple shirt working on a client's hands. The client is seated in a chair. There is a lamp and various manicure tools on the table.

OSHA
Occupational Safety
and Health Administration
U.S. Department of Labor

OSHA 3542-05 2012



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Seguridad con las pistolas de clavos

Guía para los contratistas del sector de la construcción



Sống khỏe mạnh và an toàn khi làm nghề Nail

Hướng dẫn cho nhân viên tiệm Nail



Cơ Quan Bảo Vệ Sức Khỏe và An Toàn Lao Động

Bộ Lao Động Hoa Kỳ

OSHA 3558-08 2012 VIETNAMESE



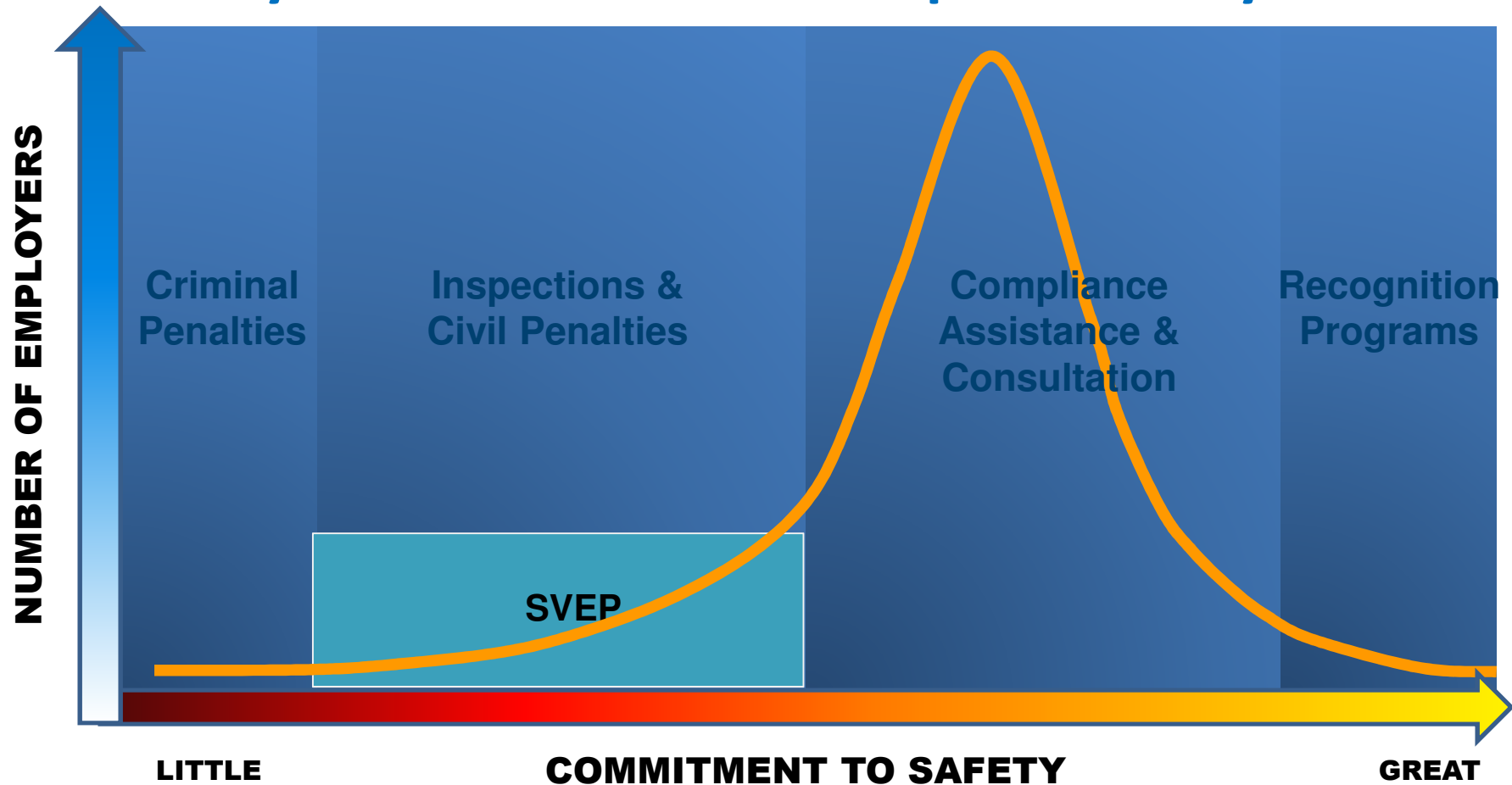
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Distribution of Employers, by Commitment to Workplace Safety



Distribution of Employers, by Commitment to Workplace Safety





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OSHA Compliance Assistance:

- ✓ **205 million** visitors to OSHA's website in FY 2012
- ✓ **206,000** responses to OSHA 1-800 calls for help
- ✓ **18,000** Spanish-speaking callers helped
- ✓ **26,000** e-mail requests for assistance answered
- ✓ **800,000** educational materials distributed
- ✓ **6,000** outreach activities by Regional & Area Offices
- ✓ **29,000** visits to small & medium-sized businesses through OSHA's **free On-Site Consultation Program**



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UNITED STATES
DEPARTMENT OF LABOR



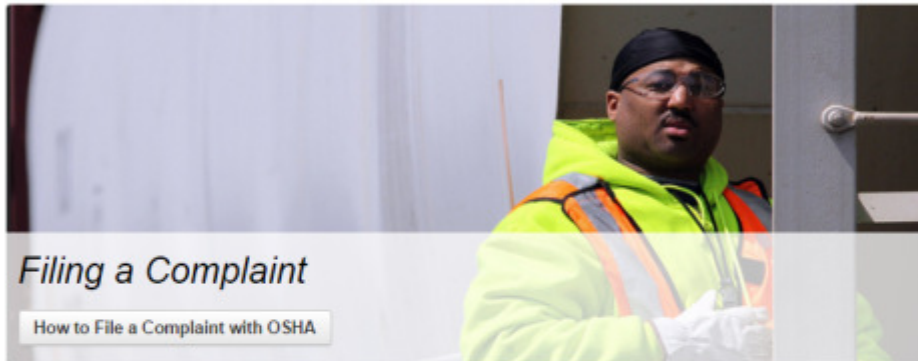
Find it in OSHA



[A to Z Index](#) | [Contact Us](#) | [FAQs](#) | [About OSHA](#)

Occupational Safety & Health Administration

[Worker Rights](#) [Anti-Retaliation](#) [Regulations](#) [Small Business](#) [Data & Statistics](#) [Enforcement](#) [Training](#) [Publications](#) [Hazards](#) [En Español](#)



Filing a Complaint

[How to File a Complaint with OSHA](#)

Filing a Complaint

[Recordkeeping Rule Updates](#)

[Protecting Temporary Workers](#)

[OSHA QuickTakes Newsletter](#)

IN FOCUS



Protecting Temporary Workers

4,405 workers died on the job in 2013

8/21/14 NM: Worker electrocuted when aerial lift contacted power line.

Fatality Reports



"No one should have to sacrifice their life for their livelihood, because a nation built on the dignity of work must provide safe working conditions for its people."

— Secretary of Labor Thomas E. Perez

NEWSLETTER

[OSHA QuickTakes](#)

NEWS

HOW TO...

- [File a complaint](#)
- [Get a FREE OSHA poster](#)
- [Report a fatality, in-patient hospitalization, amputation or loss of an eye](#)
- [Get information on recordkeeping](#)
- [Get help for small businesses](#)
- [Get the latest industry/hazards alerts](#)
- [Find out if OSHA has inspected a workplace](#)
- [Find information on construction hazards](#)
- [Get help for clinicians](#)
- [Learn about partnerships and cooperative programs](#)

Visit our new and improved homepage at OSHA.gov



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OSHA QuickTakes



- Free OSHA e-newsletter delivered twice monthly to nearly 72,000 subscribers
- Latest news about OSHA initiatives and products to help employers and workers find and prevent workplace hazards
- Sign up at www.osha.gov

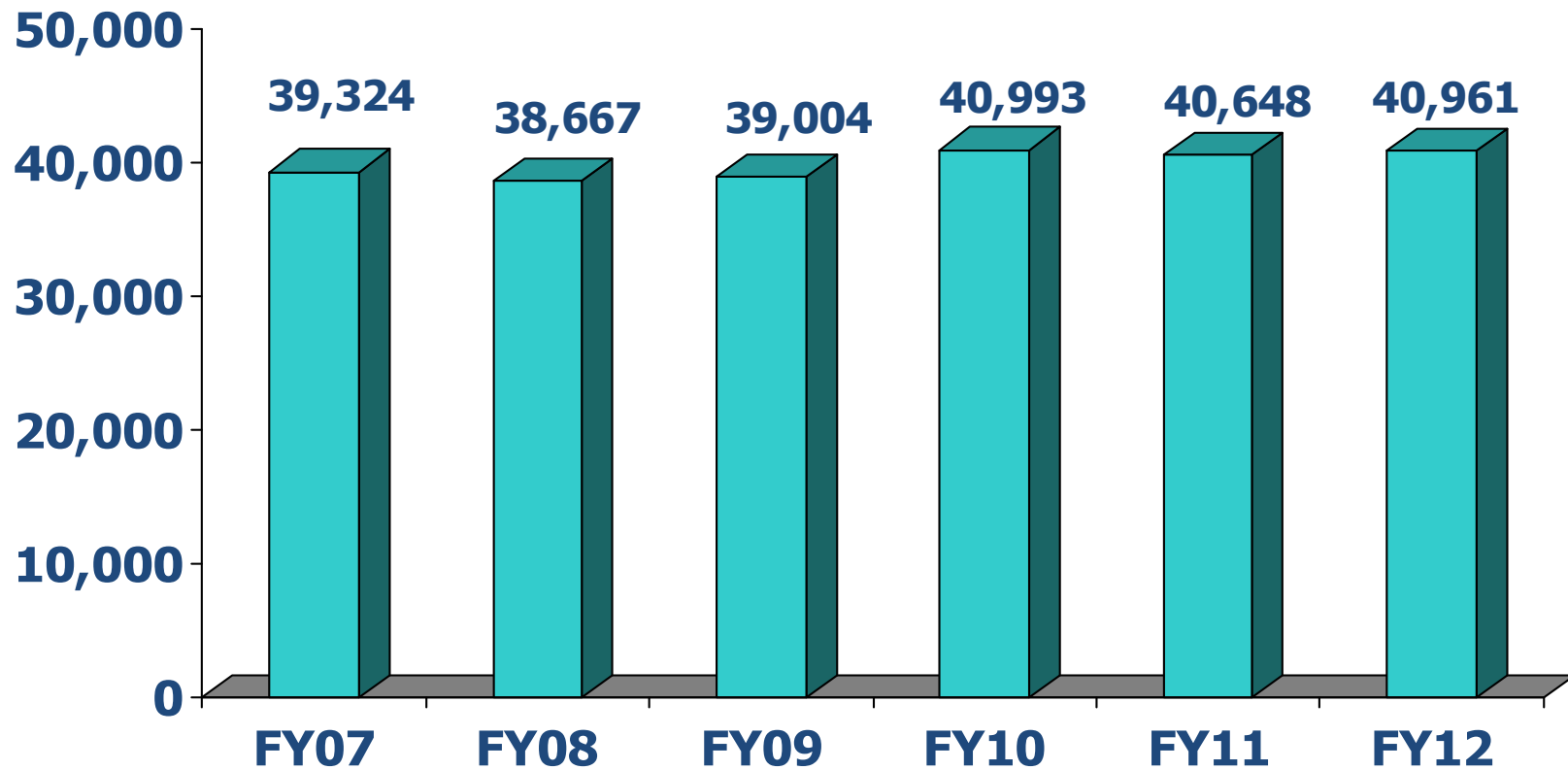


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Inspections Conducted

FY 2007 – FY 2012



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Chicago Tribune

Drowned in corn: Grain bin deaths hit record

Feds step up inspections after accident that killed 2 Illinois teens

March 08, 2011 | By Judith Graham, Tribune reporter

The three young workers sank into corn that pulled them down like a giant hand toward the bottom of the giant grain bin.

Wyatt Whitebread, 14, started seeing the kernels moved past his chest and over his head within a matter of minutes.

"We're going to die," moaned Alex Pacas, 19, who had jumped into the sinkhole to try to pull Whitebread out.



Wyatt Whitebread
14 years old



Alex Pacas
19 years old

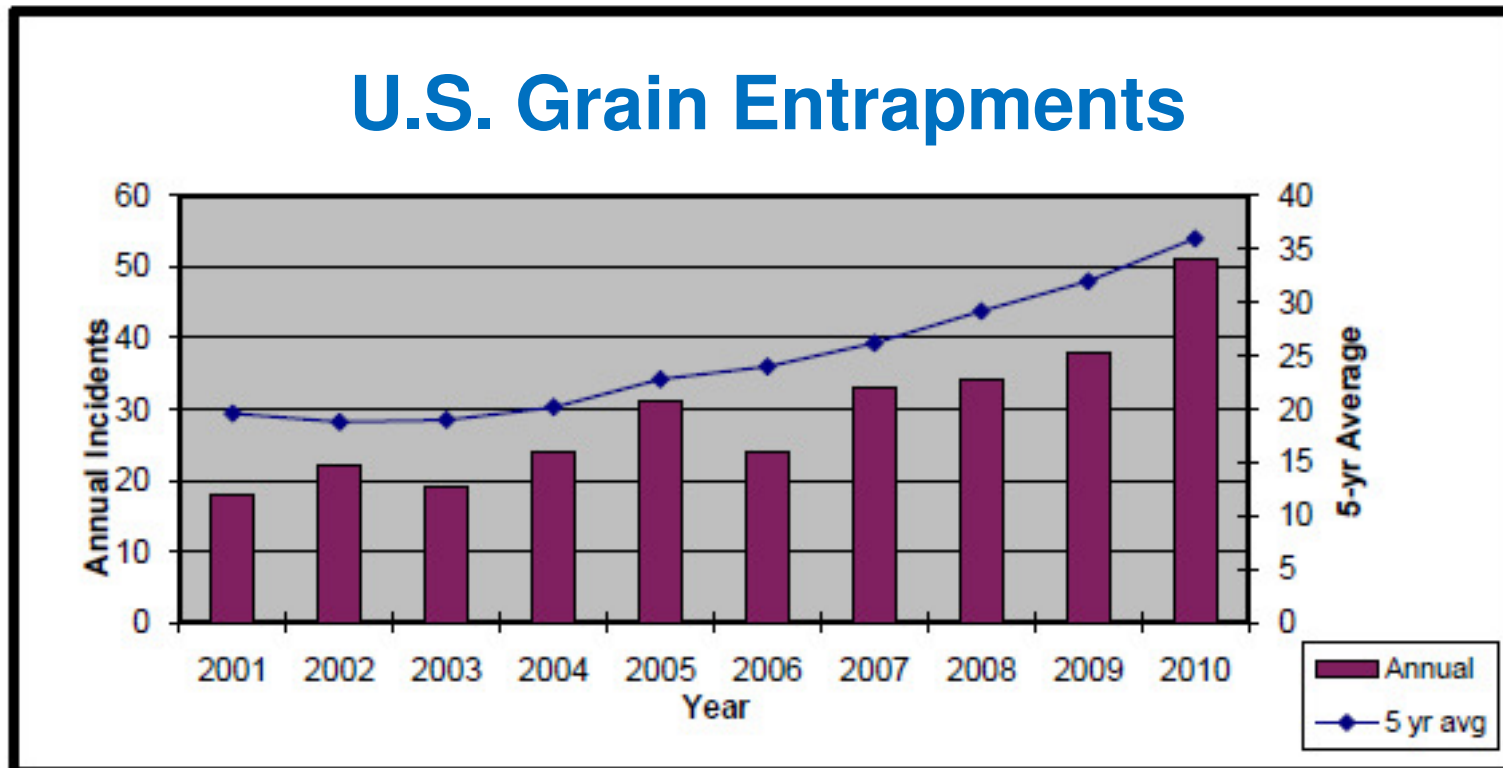


Figure 1: Number of annual grain entrapments³ recorded in the National Grain Entrapment Database and the 5-year average between 2001 and 2010.

Source: 2010 Summary of Grain Entrapments in the United States
Riedel S, Field B. Agricultural Safety & Health Program, Purdue Univ.



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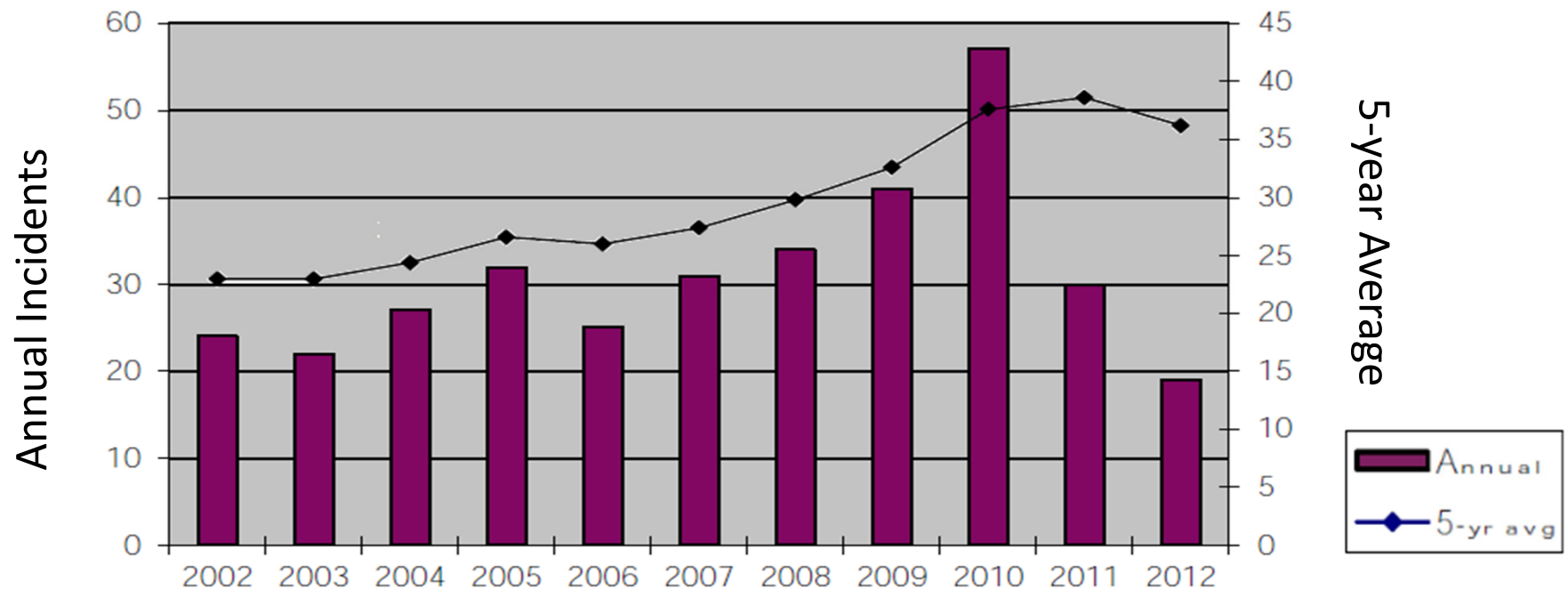
Grain Handling Hazards



OSHA response:

- Stepped-up enforcement of grain facilities
- Industry outreach
- Hazard Alert
- Web site
- Fact sheet
- Wallet card

U.S. Grain Entrapments 2002-2012



US Grain entrapments recorded in the National Grain Entrapment Database 2002-2012: Annual incidents and 5-year average.

Source: 2012 Summary of Grain Entrapments in the United States *Issa S, Roberts M, Field B. Agricultural Safety & Health Program, Purdue Univ.*



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August 16, 2012

**Lawrence “Day” Davis’
first day at work.**





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What would you do?





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- 
- **3 million people are employed by staffing companies every week.**
 - **11 million temporary and contract employees are hired by U.S. staffing firms over the course of a year.**



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Why Are Temp Workers At High Risk of Injury?

- New workers are at increased risk of injury.
- Host employers don't have the same commitment to temporary employees as to permanent ones.
- Employer who bears the risk of the injury (temp agency) does not control safety and health investment.



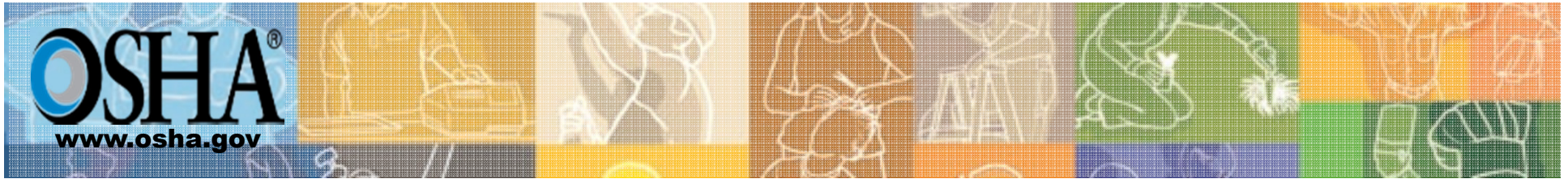
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Joint Employment

Legally, both the host employer and the staffing agency are employers of the temporary worker.

Shared control over worker = Shared responsibility for worker



Recent Cases

- **Schwann's Global Supply Chain / Adecco USA:**
 - Temp workers were exposed to ammonia
 - Both employers cited for exposure & lack of training
 - Total fines: \$78,660

- **HP Pelzer Automotive Systems/ Sizemore Staffing:**
 - Temp workers exposed to formaldehyde
 - Both employers cited for lack of training
 - Total Fines: \$207,100

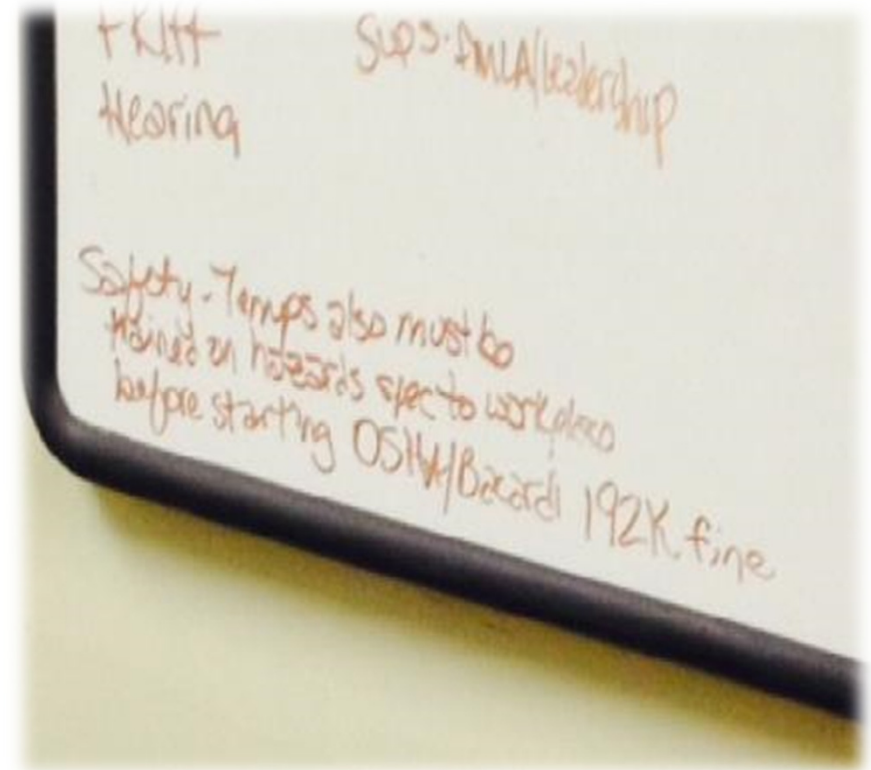


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Temporary Worker Initiative

- Extensive outreach and education



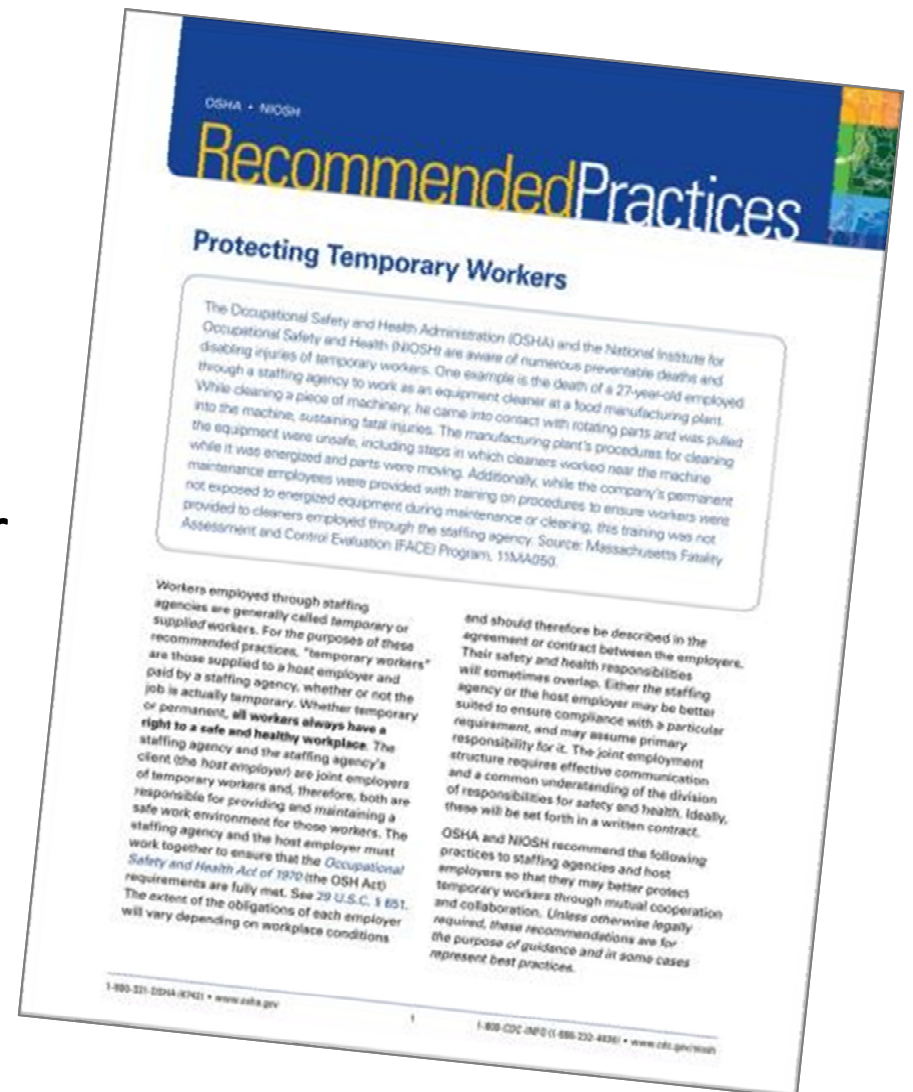


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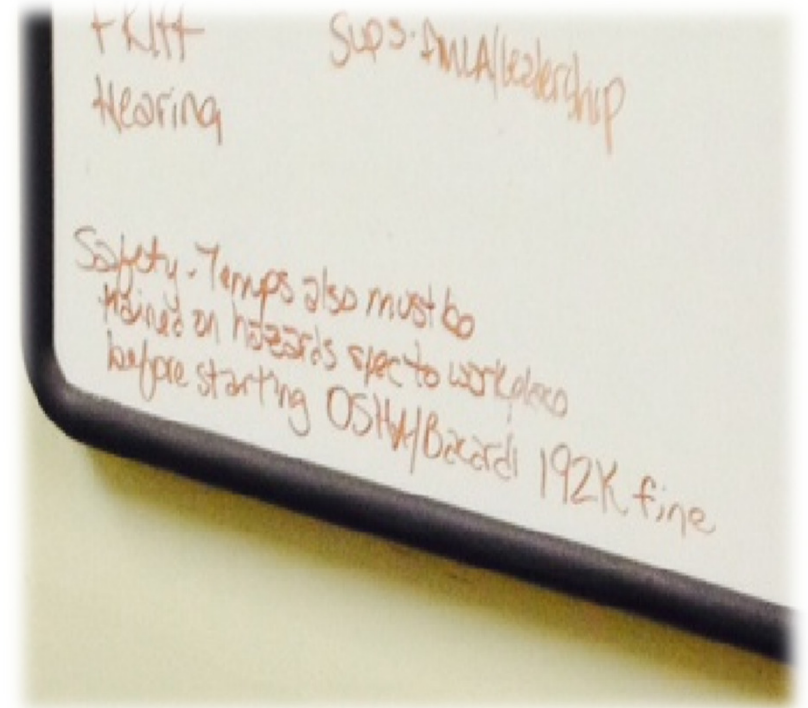
Outreach & Education

- Alliance with American Staffing Association
- Issued Temporary Worker Recommended Practices
- Developing Compliance Assistance Bulletins



Temporary Worker Initiative

- Extensive outreach and education
- In all inspections, OSHA's inspectors ask about presence of temp workers, the hazards to which they are exposed, and the training they have received.
- **We are seeing an impact.**





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UNITED STATES DEPARTMENT OF LABOR

OSHA QuickTakes

Occupational Safety & Health Administration **We Can Help**

Home Workers Regulations Enforcement Data & Statistics Training Publications Newsroom Small Business OSHA

Injury and Illness Prevention Programs

Good for Workers. Good for Businesses. Good for America.

Related OSHA Documents Effective Programs Program Resources State Programs

"The Bureau of Labor Statistics estimates that approximately 3.3 million serious work-related injuries and about 4,300 fatalities occurred in 2009. The human cost of preventable workplace injuries and deaths is incalculable. However, according to the 2010 Liberty Mutual Workplace Safety Index, the direct cost of the most disabling workplace injuries and illnesses in 2008 amounted to \$53.42 billion in U.S. workers compensation costs, more than one billion dollars per week. This money would be better spent on job creation and innovation. Injury and illness prevention programs are good for workers, good for business and good for America." - Dr. David Michaels Assistant

The Buzz

workplaces. Many states have requirements or voluntary guidelines for workplace injury and illness prevention programs. Also, numerous employers in the United States already manage safety using Injury and Illness Prevention Programs and we believe that all employers can and should do the same. Most successful injury and illness prevention programs are based on a common set of key elements. These include: management leadership, worker participation, hazard identification, hazard prevention and control, education and training, and program evaluation and improvement. This topics page provides information relevant to Injury and Illness Prevention Programs in the workplace.

Hot Topics

- Summary of Injury and Illness Prevention Program Stakeholder Meetings

www.osha.gov/dsg/topics/safetyhealth/index.html



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OSHA's New Severe Injury Reporting Rule

Changes to reportable events

- Retains current requirement to report work-related fatalities within 8 hours.
- Adds requirement to report **in-patient hospitalizations** of one or more employees, **amputations & eye losses** within 24 hours.
- Required of all covered employers, regardless of industry or size.
- Goes into effect 1/1/15 (in federal states).



www.osha.gov/recordkeeping2014



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Updates to OSHA's Recordkeeping Rule

Changes to who keeps records

- Industries classified by NAICS rather than SIC.
- Updates the list of industries exempt from the requirement to routinely keep OSHA injury and illness records due to relatively low occupational injury and illness rates.
- Establishments with 10 or fewer employees in the previous year still exempt from keeping OSHA records.
- Goes into effect 1/1/15 (in federal states).



www.osha.gov/recordkeeping2014

Exposure to Silica

- Workers can become ill if they inhale respirable crystalline silica
 - Respirable particles are very small (1/100th the size of a grain of sand)
 - Can penetrate deeply into the lungs
 - Can't be seen or smelled and must be measured using air sampling equipment



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Construction: Cutting Cinder Block





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Construction: Tuckpointing



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Exposure and Health Risks

- Exposure to respirable crystalline silica has been linked to:**
 - Silicosis;
 - Lung cancer;
 - Chronic obstructive pulmonary disease; and
 - Kidney and immune system disease.



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OSHA's Proposed Crystalline Silica Rule

- Improve protections for 2.2 million workers
- Save nearly 700 lives and prevent 1,600 cases of silicosis annually once full effects are realized
- Provide average net benefits of \$2.8 to \$4.7 billion annually over the next 60 years
- Level the playing field – employers who invest in worker health and safety can better compete with “low road” employers.



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Alan White





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Most Important Reason for the Proposed Rule

- Current PELs do not adequately protect workers
- Extensive epidemiologic evidence that lung cancer and silicosis occur at exposure levels below $100 \mu\text{g}/\text{m}^3$



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Underreporting of Silicosis Cases

- Goodwin et al. (2003) examined X-rays of deceased workers from New Jersey – 8.5% of them had silicosis not previously identified
- Rosenman et al. (2003) identified substantial underreporting of new silicosis cases – analyses indicated 3,600 to 7,300 new cases per year from 1987 to 1996



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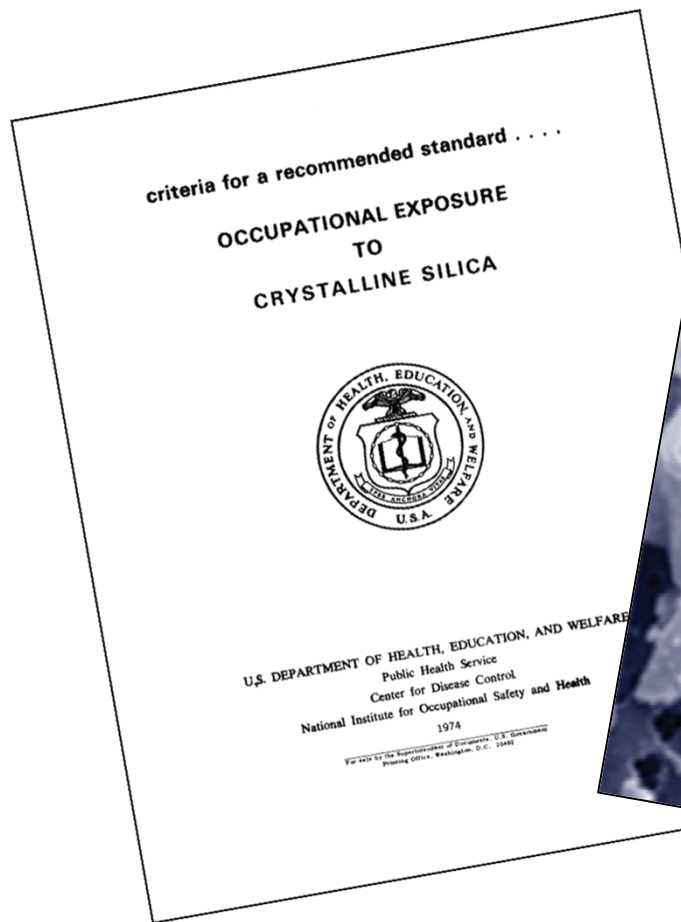




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NIOSH Recommendations





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OSHA's Proposed Rule

- Establishes new PEL of $50 \mu\text{g}/\text{m}^3$
- Includes provisions for:
 - Measuring worker exposures to silica;
 - Limiting access to areas where workers could be exposed above the PEL;
 - Use of dust controls;
 - Use of respirators when necessary;
 - Medical exams for highly exposed workers;
 - Worker training; and
 - Recordkeeping.



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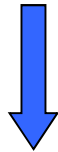
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Flexibility for Dust Controls

- Employers can use any dust or work practice controls to protect workers, such as:
 - Water sprays
 - Enclosures
 - Vacuum dust collection systems
 - Prohibiting dry sweeping

Dust Controls

Grinding
without dust controls



Grinder with vacuum dust
collector



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QEP Master Cut 3/5 HP Direct-Drive Motor Wet Tile Saw with 7 in. Diamond Blade for Ceramic Tile

Model # 60089 Internet # 202061498

\$54.00 / each



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Free Shipping



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Dust Collecting Saw Adapter

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Bosch 4-1/2 in. - 5 in. Dust Collection Cut Off Guard

Model # 18DC-5E Internet # 203370169

★★★★★ | [Write The First Review](#) ↗ | [Read All Q&A](#) ↗

\$43.97 / each





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Protecting Workers from Chemical Hazards

- Each year in the U.S., many thousands of workers are made sick or die from occupational exposures to hazardous chemicals
- The number of chemicals found in workplaces today far exceeds the number regulated by OSHA
- The vast majority of existing permissible exposure limits (PELs) have not been updated since 1971
- Current scientific data suggests that the outdated PELs are not sufficiently protective



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Recent OSHA Efforts to Improve Protection of Workers from Chemical Hazards

- **Transitioning to Safer Chemicals:
A Toolkit for Employers and Workers**



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Transitioning to Safer Chemicals: A Toolkit for Employers and Workers

Home

[Why Transition to Safer Alternatives?](#)

[Basics of Informed Substitution and Alternatives Assessment](#)

[Success Stories](#)

[Watch Assistant Secretary Michaels' Introductory Video](#)

[Explore the Steps](#)

Welcome.

American workers use tens of thousands of chemicals every day. While many of these chemicals are suspected of being harmful, only a small number are regulated in the workplace.

As a result, workers suffer more than 130,000 illnesses and 50,000 deaths annually related to chemical exposures.¹ Workplace chemical exposures have been linked to cancers, and other lung, kidney, skin, heart, stomach, brain, nerve, and reproductive diseases.

Establishing a chemical management system that goes beyond regulatory compliance and strives to reduce or eliminate chemical hazards at the source through informed substitution best protects workers. Transitioning to safer alternatives can be a complex undertaking, but a variety of existing resources make it easier. OSHA has developed this step-by-step toolkit to provide employers and workers with information, methods, tools, and guidance on using informed substitution in the workplace.

By using this toolkit, businesses can improve worker well-being through eliminating or reducing hazardous chemicals, while creating other benefits, including:

- **Cost Savings** — Reduce expenses and future risks.
- **Efficiency** — Improve performance.
- **Industry Leadership** — Invest in innovation to stay competitive.
- **Corporate Stewardship** — Advance socially responsible practices.

This toolkit can be used by all types of businesses—it is for manufacturers using chemicals in their production processes as well as for businesses that use products containing chemicals in their everyday operations. For example, service-oriented workplaces (janitorial companies, auto body repair shops, and pathology labs) and construction work sites often use products containing chemicals that could present hazards to workers.

Workers also can use this toolkit to better understand chemical use in their workplace, find opportunities for using safer chemicals, and engage with their employers throughout the process of identifying, evaluating, and transitioning to safer alternatives.

OSHA wants to help businesses thrive safely by asking them to look at their chemical use and adopt ways to reduce the use of hazardous chemicals. Together, OSHA, employers, and workers can protect America's workforce and strengthen America's businesses.



STEP 1
Engage

STEP 2
Inventory & Prioritize

STEP 3
Identify

STEP 4
Assess & Compare

STEP 5
Select

STEP 6
Test

STEP 7
Evaluate

Step 2: Examine Current Chemical Use

To identify targets for informed substitution, you need to know how you use chemicals in your workplace and the hazards associated with each of these chemicals. This step will help you examine your current chemical use.

[Key Questions](#)

[Inventory](#)

[Prioritize](#)

[Further Resources](#)

Prioritize

While it is important to consider transitioning to safer alternatives for each of the hazardous chemicals used in your workplace, you do not have to pursue substitution activities for every chemical immediately. Instead, you should work with your team to identify priorities to maximize the use of limited resources. Chemicals can be prioritized based on various criteria, including, but not limited to: hazard, exposure, risk, regulation potential, established company policies, interests of relevant stakeholders, and substitution potential. OSHA 300 logs may also provide helpful information about what chemical uses and exposures are of greatest concern in your workplace. Setting these priorities could reflect the larger goals in your work plan for transitioning to safer chemicals or help you further refine your work plan.

Key Resource



European Commission's Prioritization Matrix

The European Commission's [Guidance on Minimizing Chemical Risk to Workers' Health and Safety Through Substitution](#) provides a risk matrix tool that can be used for prioritization. The tool combines a qualitative evaluation of hazard and exposure potential to identify chemicals that could be good targets for substitution efforts. The matrix uses hazard categories found on a Safety Data Sheet to rank the hazard level of the chemical from 1 (low hazard) to 5 (very high hazard). The matrix uses information about where, how often, and in what way the chemical is used to rank exposure potential from 1 (low exposure) to 5 (very high exposure) with regards to working/process conditions, physical properties affecting exposure, frequency or duration of use, quantity used, and accident potential. Combining the qualitative hazard and exposure potential scores allows you to identify chemicals with the highest risk and greatest potential for substitution.

www.osha.gov/dsg/safer_chemicals



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Recent OSHA Efforts to Improve Protection of Workers from Chemical Hazards

- Transitioning to Safer Chemicals:
A Toolkit for Employers and Workers
- **Annotated PELs Tables**



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	CAS No. (a1)	OSHA PEL (a)		CalOSHA PEL (b)	NIOSH REL (c)	ACGIH TLV (d)	View
		ppm (a2)	mg/m ³ (a3)				
	75-07-0	200	360	(C) 25 ppm	See Appendix A; see Appendix C	(C) 25 ppm	<ul style="list-style-type: none"> ▪ M ▪ I ▪ I ▪ I
	64-19-7	10	25	10 ppm	10 ppm	10 ppm	
	108-24-7	5	20	(C) 5 ppm	(C) 5 ppm	1 ppm	
	67-64-1	1000	2400	500 ppm	250 ppm	500 ppm	
	75-05-8	40	70	40 ppm	20 ppm	20 ppm	
910.1014	53-96-3			See Section 5209	See Appendix A	NA	Importa
	79-27-6	1	14	1 ppm	See Appendix D	0.1 ppm (IFV)	
	107-02-8	0.1	0.25	(C) 0.1 ppm	0.1 ppm	(C) 0.1 ppm	
	79-06-1		0.3	0.03 mg/m ³	0.03 mg/m ³ ; See Appendix A	0.03 mg/m ³ (IFV)	
	107-13-1			Section 5213	1 ppm; See Appendix A	2 ppm	
	309-00-2		0.25	0.25 mg/m ³	0.25 mg/m ³	0.05 mg/m ³ (IFV)	
	107-18-6	2	5	0.5 ppm	2 ppm	0.5 ppm	
	107-05-1	1	3	1 ppm	1 ppm	1 ppm	
	106-92-3	(C)10	(C)45	0.2 ppm	5 ppm	1 ppm	
	2179-59-1	2	12	2 ppm	2 ppm	0.5 ppm	
	1344-28-1			see PNOR	See Appendix D	NA	
			15	10 mg/m ³			
			5	5 mg/m ³			
	7429-90-5						
			15	10 mg/m ³	10 mg/m ³		
			5	5 mg/m ³	5 mg/m ³	1 mg/m ³	
11	92-67-1			Section 5209	See Appendix A	As low as possible	
amine							

<http://www.osha.gov/dsg/annotated-pels>



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Recent OSHA Efforts to Improve Protection of Workers from Chemical Hazards

- Transitioning to Safer Chemicals:
A Toolkit for Employers and Workers
- Annotated PELs Tables
- **Publication of Request for Information on Chemical Management and Permissible Exposure Limits**



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We Need Your Ideas and Input!

What would happen if OSHA...

- Eliminated the Z table entries of most chemicals, and moved to control banding?
- Eliminated the Z table entries of most chemicals, and relied on the general duty clause?
- Required employers to consider protecting workers using manufacturer's recommendations?
- Required employers to consider Exposure Scenarios (from REACH)?

The background is a grid of 24 colored squares, each containing a white line-art illustration of a worker in various occupational settings. The colors of the squares include shades of orange, yellow, green, blue, and purple. The OSHA logo is centered over the grid.

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