GROUND CONTROL

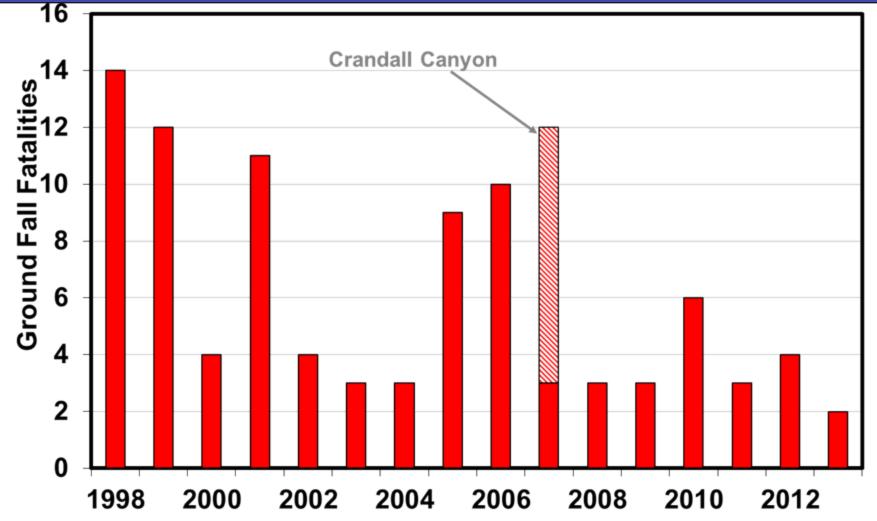
Where the Mining Industry is Today



8 5

U.S. Department of Labor Mine Safety & Health Administration

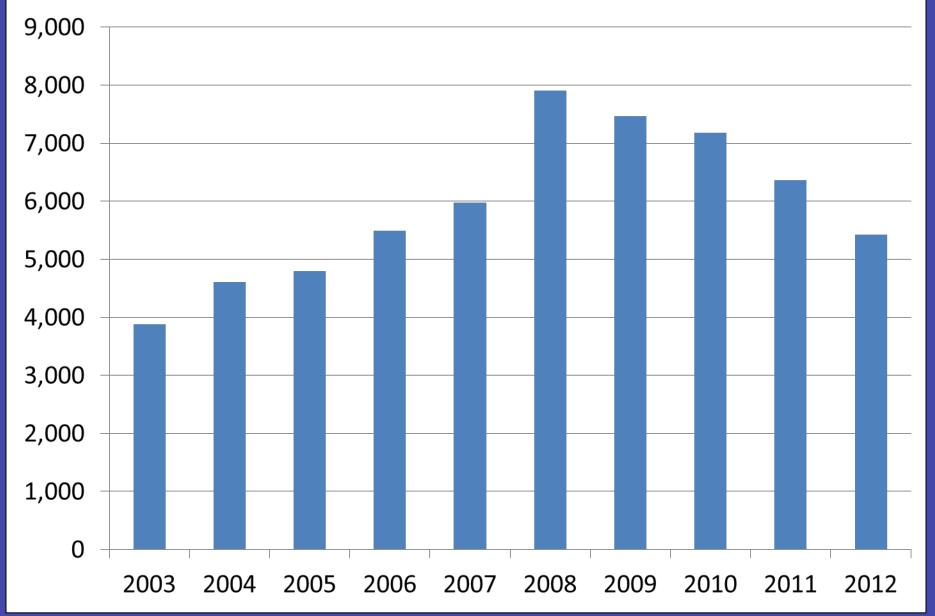
Roof/Rib Fatalities: Nationwide, 15 Years

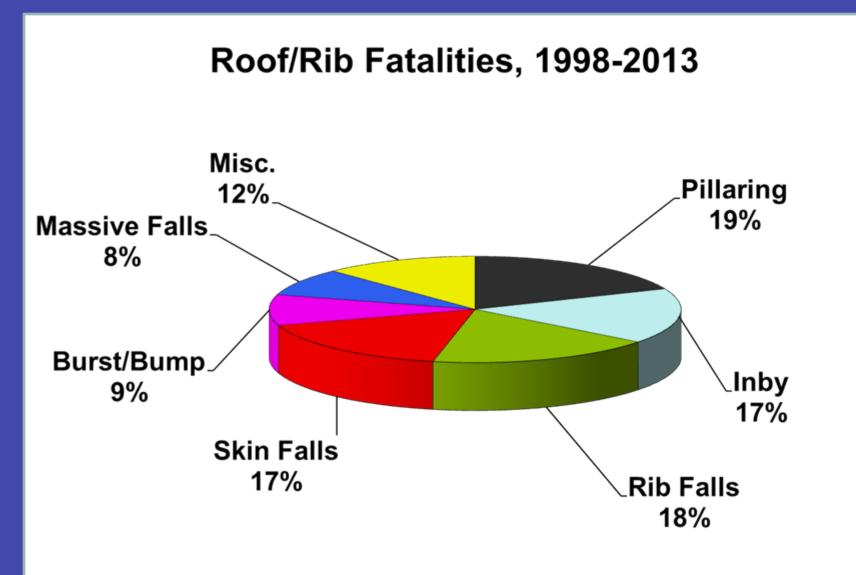


CRANDALL CANYON MINE DISASTER

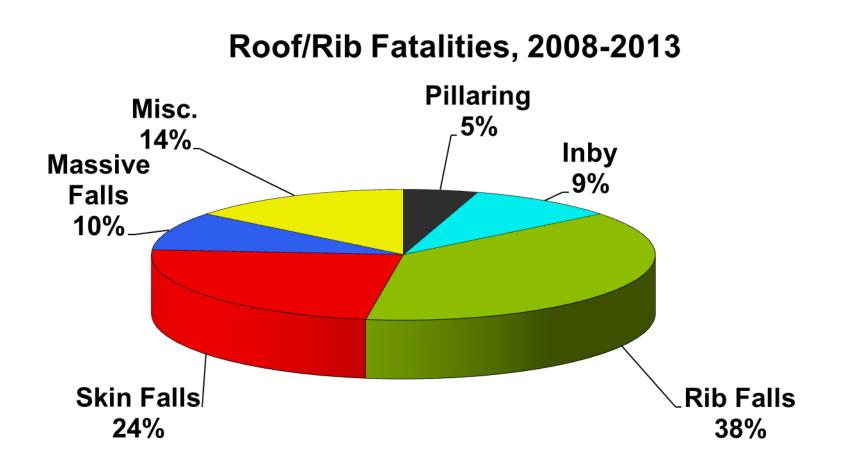


Number of 75.200 Series Citations and Orders





N=107



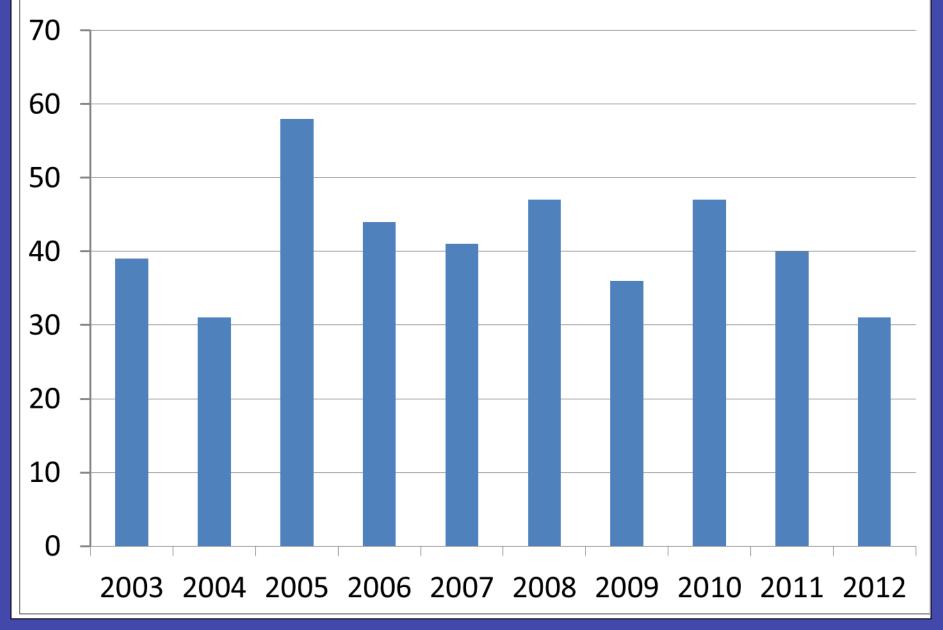
N=21

INBY IS OUT!



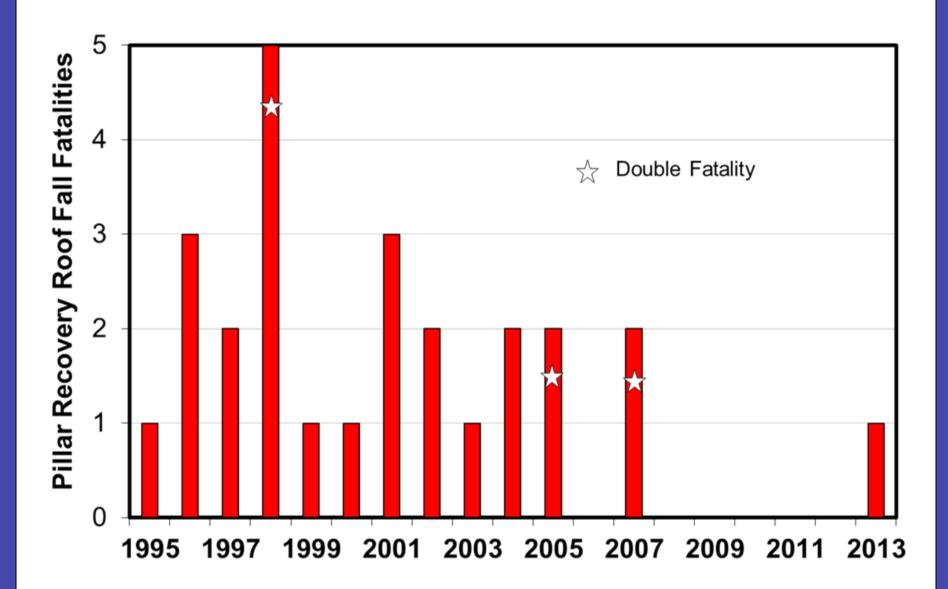


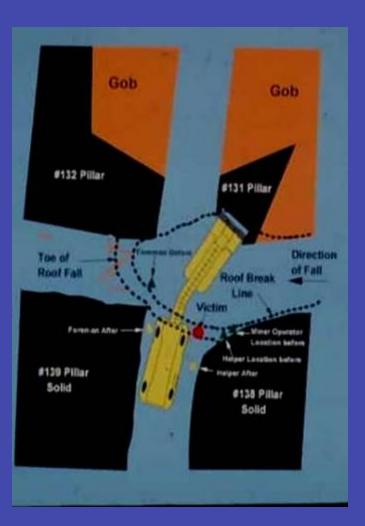
Citations for Violations of 75.202(b)



Roof Fall Fatalities during Retreat Mining









Use extra roof bolt support





Leave the final stump

Technologies that made the difference

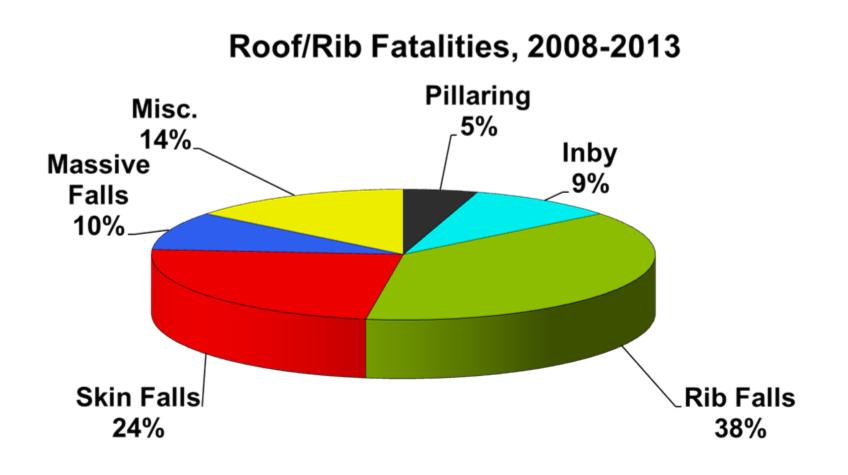


PILLAR DESIGN



Bleeder Pillars

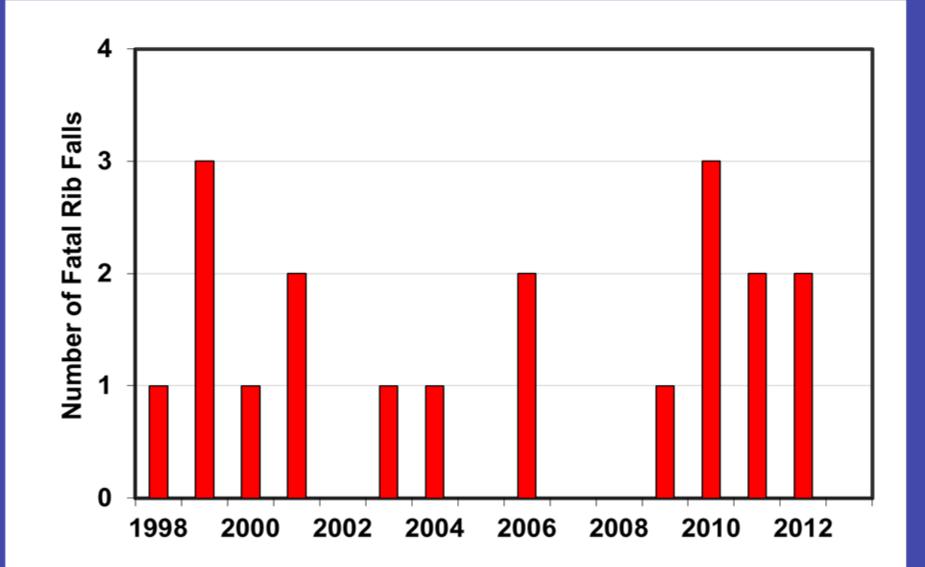
ARMPS SF (Production Pillars)



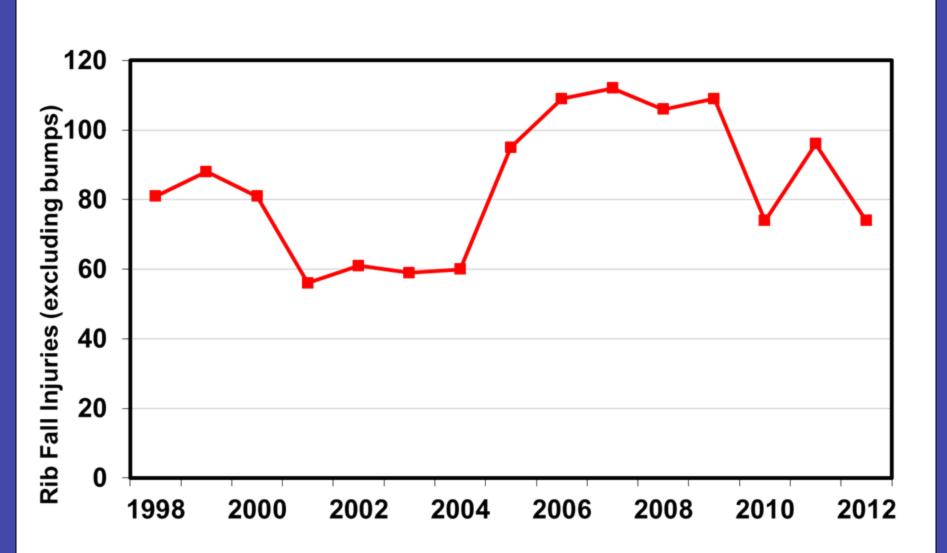
Rib Falls

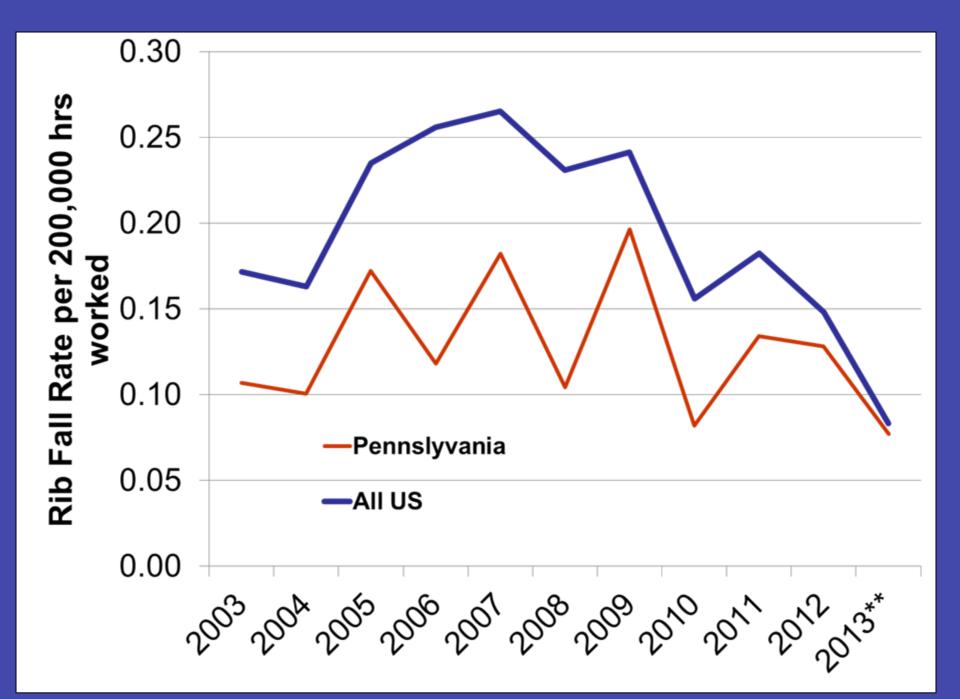


RIB FALL FATALITIES



RIB FALL INJURIES







Greater mining height increases the rib fall hazard.

Deeper cover also increases the hazard.







Rib bolting is the best way to protect miners from rib falls.

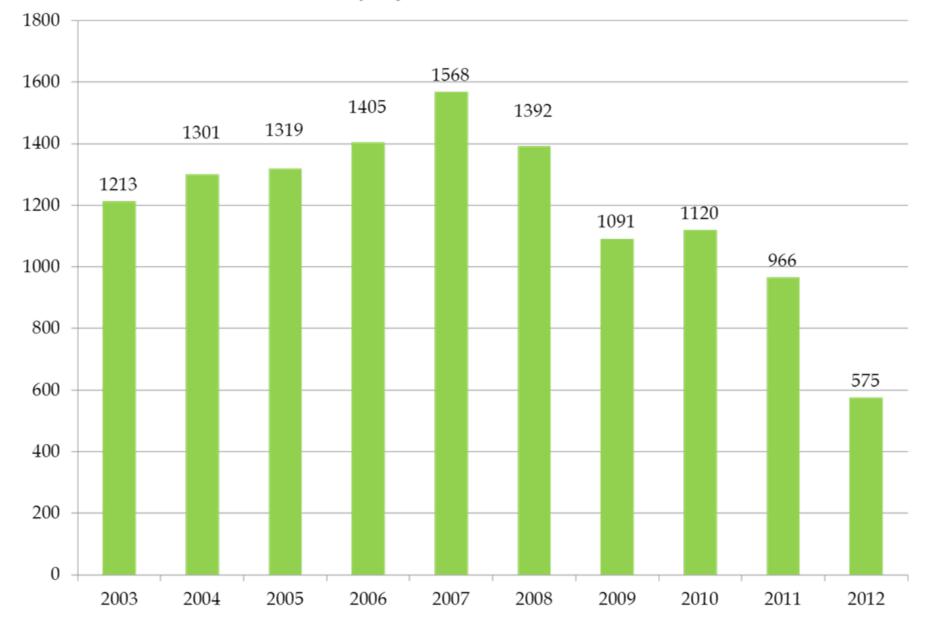


Roof Falls Above Anchorage

PPL P12-V-03 Changed the definition of reportable roof falls

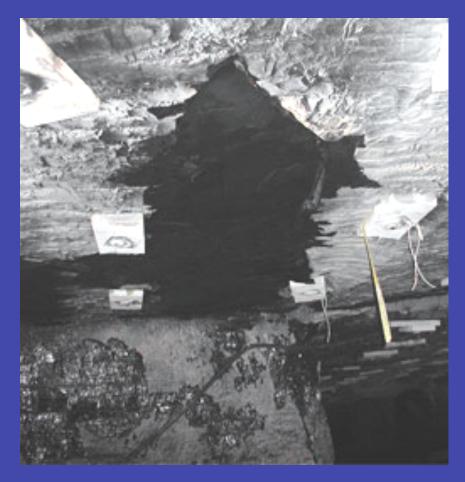
	D STATES TMENT OF LABOR	Subscribe to E-mail Updates SUBSCRIBE	Additional Search Options Find It at MSHA SEARCH
A-Z Index Site Map FAQs MSHA Forms Contact Us Español			
Mine Safety and Health Administration - MSHA - Protecting Miners' Safety and Health Since 1978 Print This Page			
PDF Version			
U.S. Department of Labor		Mine Safety and Health Administration 1100 Wilson Boulevard Arlington, Virginia 22209-3939	
EFFECTIVE DATE: May 11, 2012			EXPIRATION DATE: 03/31/2014
PROGRAM POLICY LETTER NO. P12-V-03			
FROM:	KEVIN G. STRICKLIN Administrator for Coal Mine Safety and Health	Set L	
SUBJECT:	Reporting of Unplanned Roof Fa 30 C.F.R. § 50.10	alls in Accordance with	

Non Injury Roof Falls 2003-2012



Extra support has made a difference

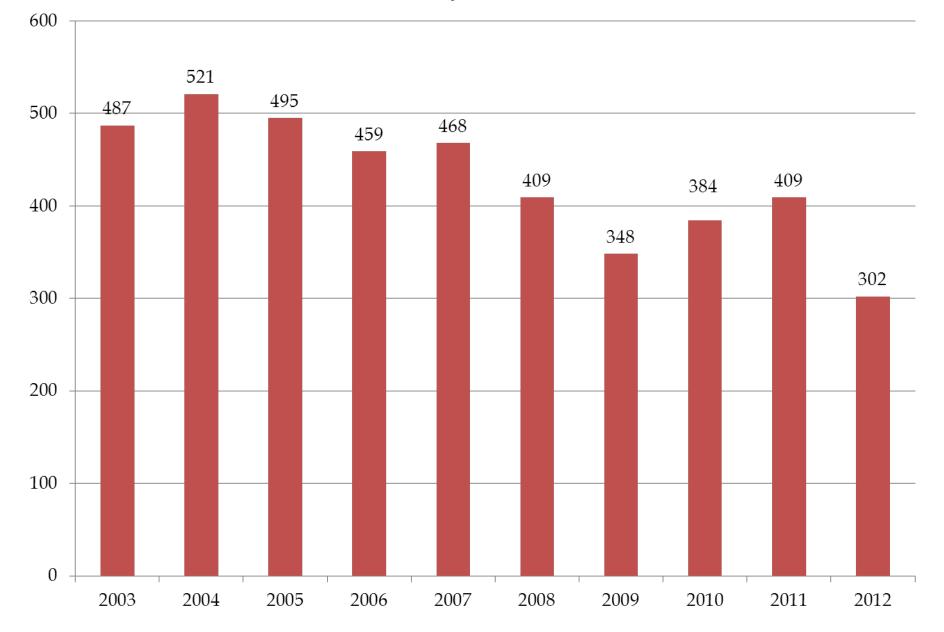




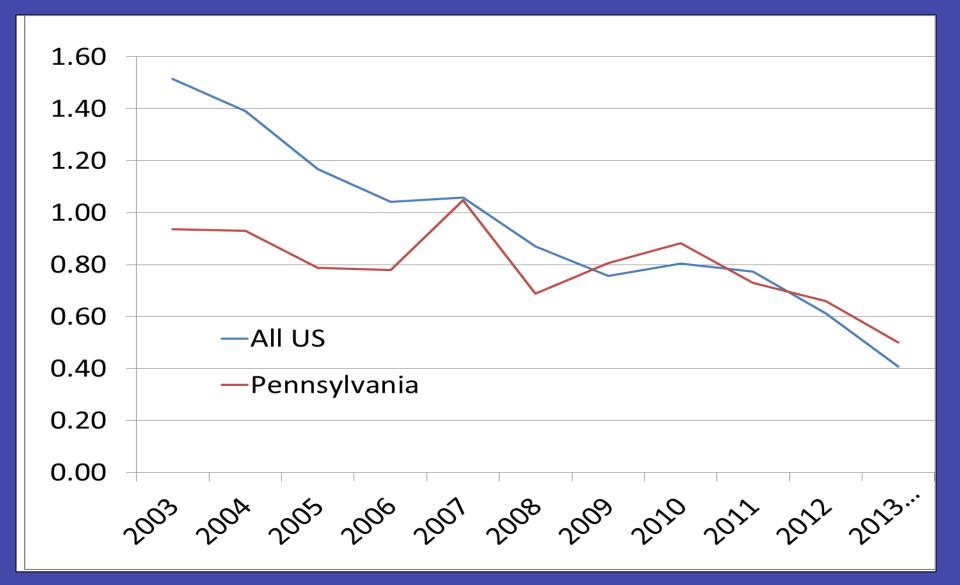
Skin fall injuries caused by rocks falling from between supports.



Roof Fall Injuries 2003-2012

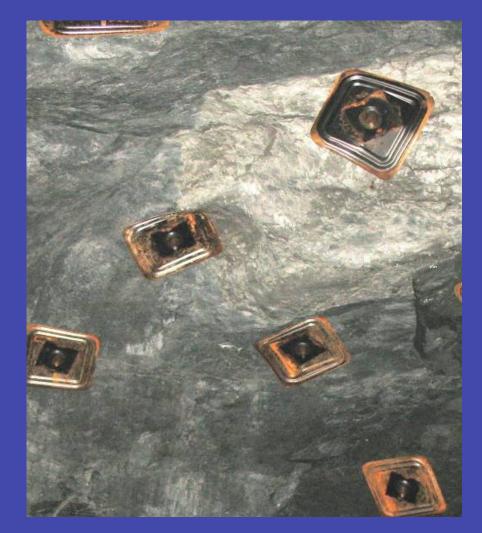


Roof fall injury rates: US and PA (10 years)



Surface coverage helps prevent skin falls.



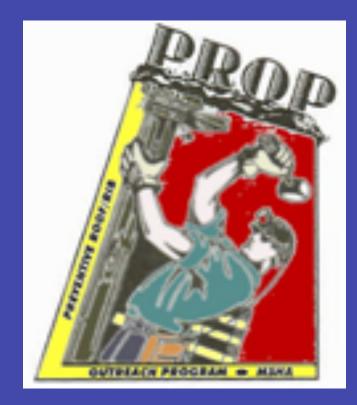






SUPPORTED ROOF: 1960

PROP 2013



Focus On Roof Bolter Safety

PROP 2013: TOPIC 1

Focus On Roof Bolter Safety: "Roof Bolter Roof Fall Injuries"





2012 ACCIDENT STATISTICS:

> 145 ROOF BOLTER OPERATORS INJURED BY ROOF FALLS

20 ADDITIONAL ROOF BOLTER OPERATORS INJURED BY RIB ROLLS



Over 95% of the 145 roof fall injuries to roof bolter operators in 2012 occurred after the ATRS system had been set.

Remember, just because it's supported doesn't necessarily mean it's safe!

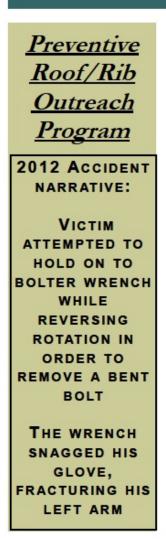
- Examine your workplace— look and sound for drummy roof
- Scale both the roof and ribs
- Maximize the canopy protection— use swing out extensions where available
- Don't place hands on the drill boom
 — they seem to be a magnet for falling roof!



PROP 2013: TOPIC 2

Focus On Roof Bolter Safety: *"Hands-off Drilling and Bolting"*







 In 2012, there were over 30 reported "hands-on" accidents involving a rotating steel or bolt If one hand is on the steel or bolt, <u>Remove your other hand from the controls!</u>

If one hand is on the controls, <u>Remove vour other hand from the steel or bolt!</u>

- There were also over 70 "hands-on" accidents involving machine pinchpoints
- An additional 36 operators were injured by "stuck" drill steels free falling



QUESTIONS?

