

Mine Safety and Health Conference Reno, Nevada October 23, 2018

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The MSHA Mission

"to prevent death, illness, and injury from mining and promote safe and healthful workplaces for U.S. miners"

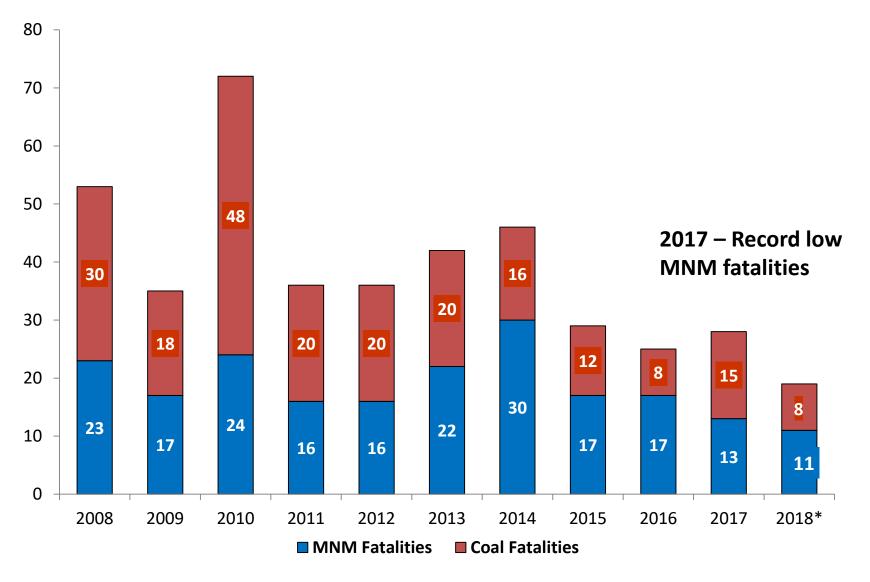


MSHA's Tools

- Fair and consistent enforcement, including mandated inspections
- Compliance and technical assistance
- Training and education
- Rulemaking and policy guidance



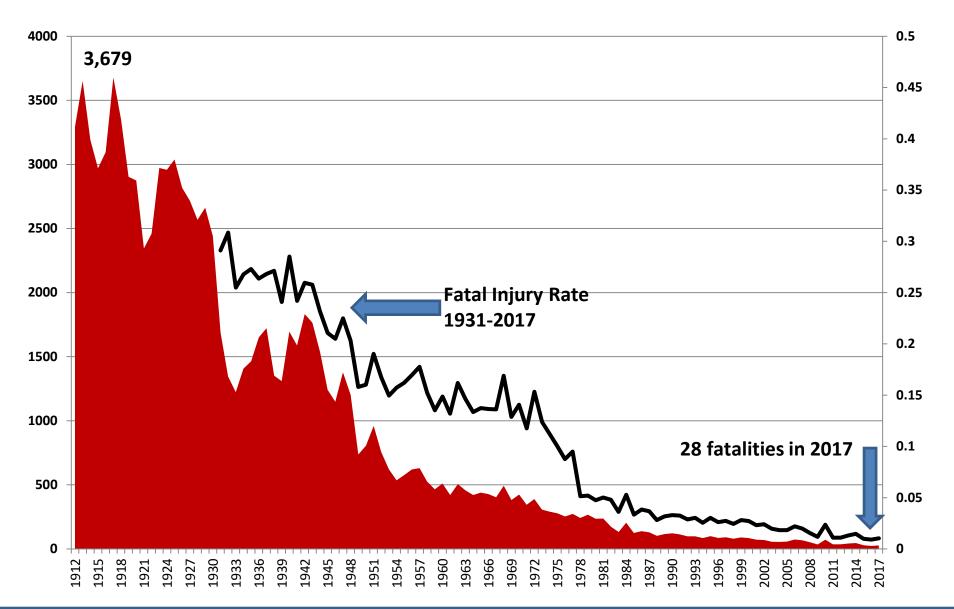
U.S. MINING FATALITIES COAL and METAL/NONMETAL 2008-2018*



*Data as of Oct. 12, 2018.

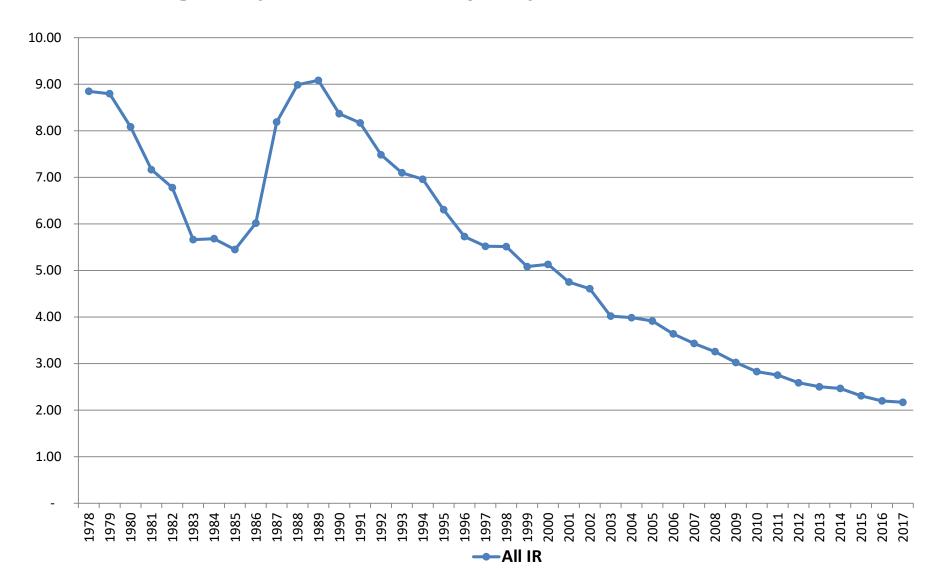


All Mining Fatalities 1912-2017





Mining Reportable Injury Rates 1978-2017





Mines and Employment: Coal, M/NM

Total # of Mines	13,102	12,257*
-Coal Mines Only	1,216	1,099*
-Metal/Nonmetal Mines Only	11,886	11,158*
Total Mine Employment	312,372	321,414*
-Coal Mines Only	82,920	79,769*
-Metal/Nonmetal Mines Only	238,452	241,645*

^{*} Q1-Q2 only, employment data for Q3 not available until late October

Cross training inspectors and updating systems to blur the distinction between Coal and Metal/Nonmetal Enforcement where it makes sense; expertise still required for certain mines

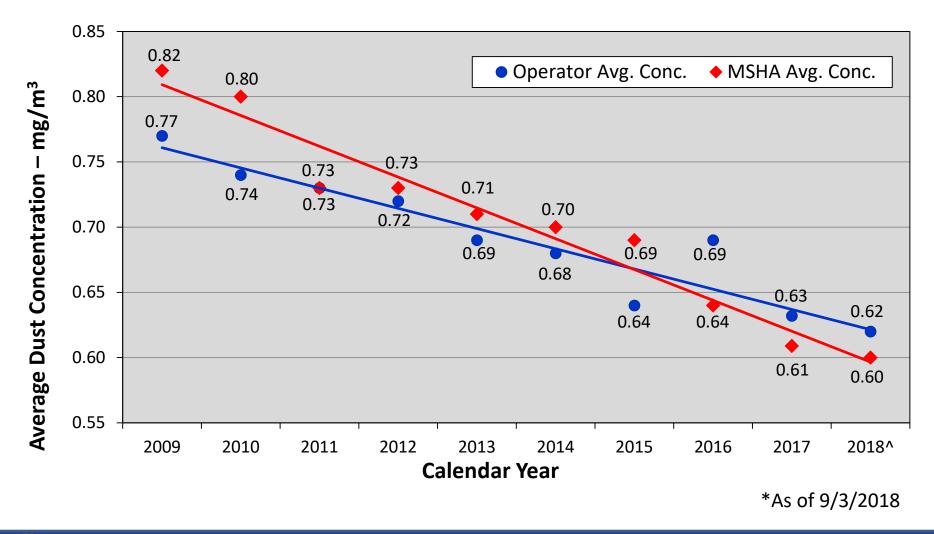


Policy Updates

- ➤ Refuge chambers
- ➤ Diesel particulate matter
- > Dust and silica standards

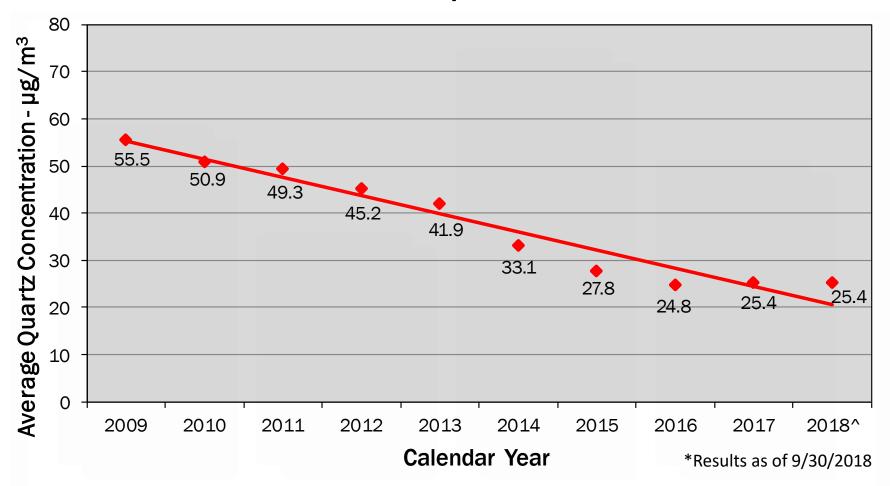


Average Dust Concentration in Underground Coal Mines, by MSHA and Operator Samples





Underground Coal Mines MSHA Average Designated Occupation* Quartz Concentration by Calendar Year





Fire Suppression Failures

- Four mobile equipment fires in past month (two rock trucks, one hydraulic shovel, one excavator)
- Fire suppression systems failed in all
- · One miner killed, another injured
- Fire suppression equipment must be properly installed
- Miners should have a means to escape



Powered Haulage Safety

Powered Haulage accidents are low-frequency, high-consequence events

- 50% of fatalities in 2017
- More than 50% of fatalities (9 of 17) so far in
 2018

Preventing these accidents is a priority for MSHA! Focus on mobile equipment, seatbelts and conveyor systems



Mobile Equipment

Large vehicles striking other vehicles or pedestrians have killed 4 miners since January 2017; at least 24 since 2003









Seatbelt Usage

- Three fatalities in 2017, 35 since 2007, involved miners not wearing seat belts
- 6000+ MSHA
 citations issued for
 failure to wear
 seatbelts since
 2007; enforcement
 alone appears to be
 insufficient



Loader operator saved by wearing seat belt



Belt Conveyors

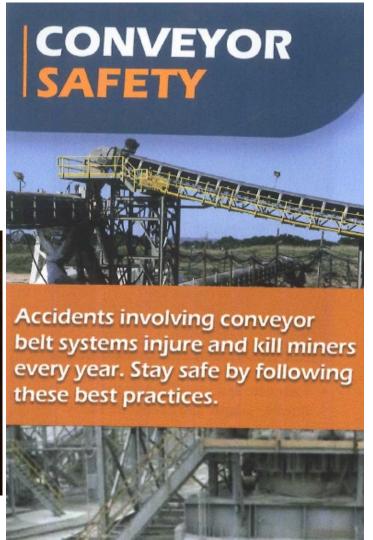
- Seven miners killed working around belt conveyors since January 2017: four in coal, three in MNM
- Total of 19 conveyor-related fatalities and 41 conveyor-related permanent injuries since 2008
- Guarding, lock-out tag-out, properly using crossovers, all essential for safety



Powered Haulage Safety Outreach

MSHA is distributing stickers, brochures and more to spread the word







Powered Haulage Safety Ideas

- Seeking your ideas to prevent these accidents from occurring
- Formal Request for Information open for comments until December 24, 2018, see www.msha.gov/poweredhaulage

A powered haulage safety plan?



Scofflaw Initiative

- Small share of operators are chronically delinquent and have poor safety records
- Monthly batches of letters to worst violators
- Payment plans proposed/established with total commitment of \$4.1 million
- 11 mines paid in full for \$1.1 million
- 33 104(a) citations issued; 12 104(b) orders issued; all but two operations now open





