



September 14, 2018

Kentucky Engineers in Mining Seminar

MSHA: 2017 in Review and a Look Ahead

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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 - mandated inspections (2s and 4s) are core responsibility
- Education and Training
- Compliance and Technical Assistance
- Technological Innovation – working with operators, manufacturers and NIOSH



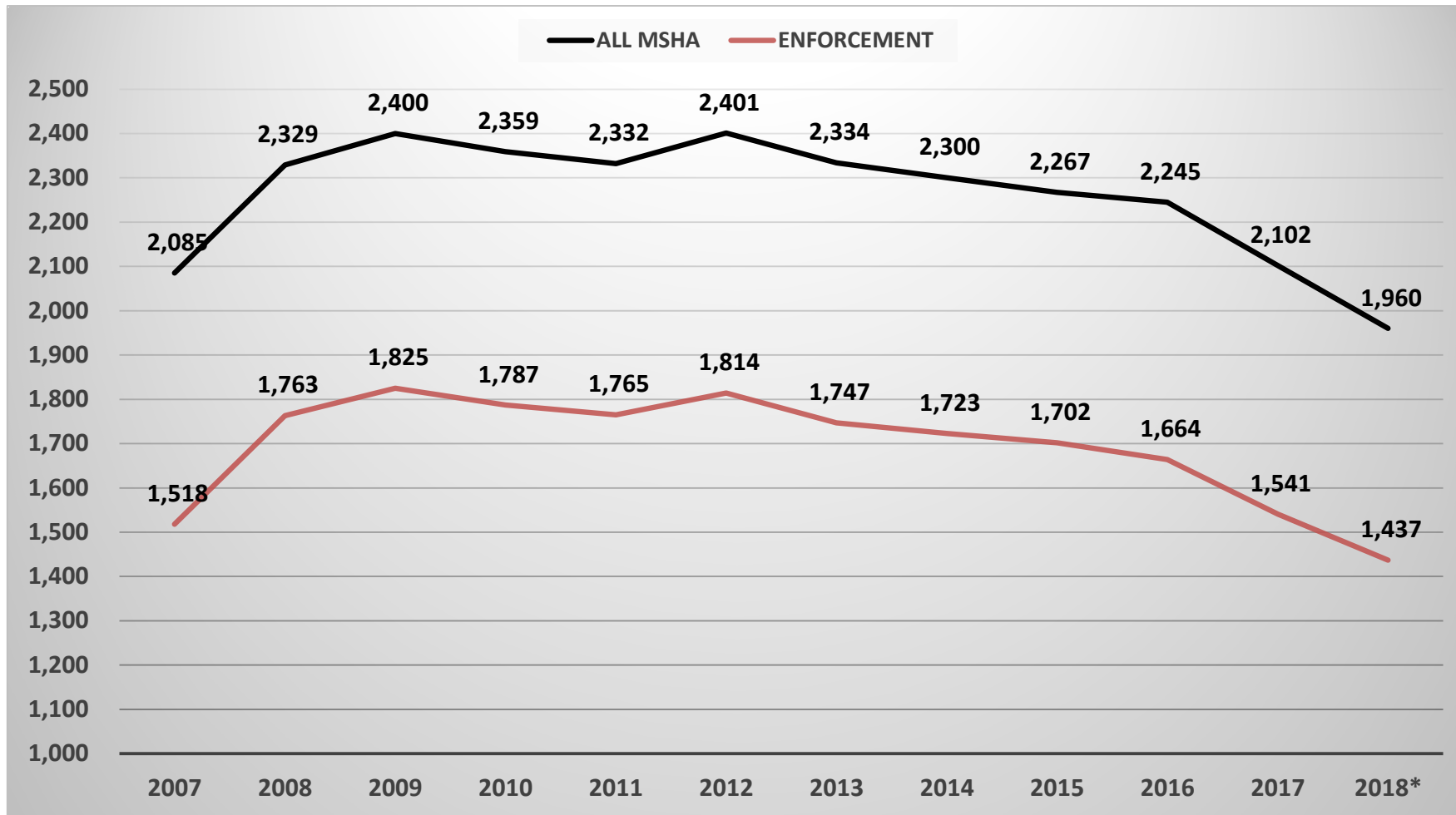
MSHA Information Data for 2017

	Nation
# of Mines Reporting Employment	13,102
- Coal Mines Only	1,216
- Metal/Nonmetal Mines Only	11,886
Total Employment	321,312
MSHA Inspections Completed*	39,689
Citations & Orders Issued	104,713
Proposed Dollars Assessed (Millions)	\$55.87

**Excludes compliance assistance visits*



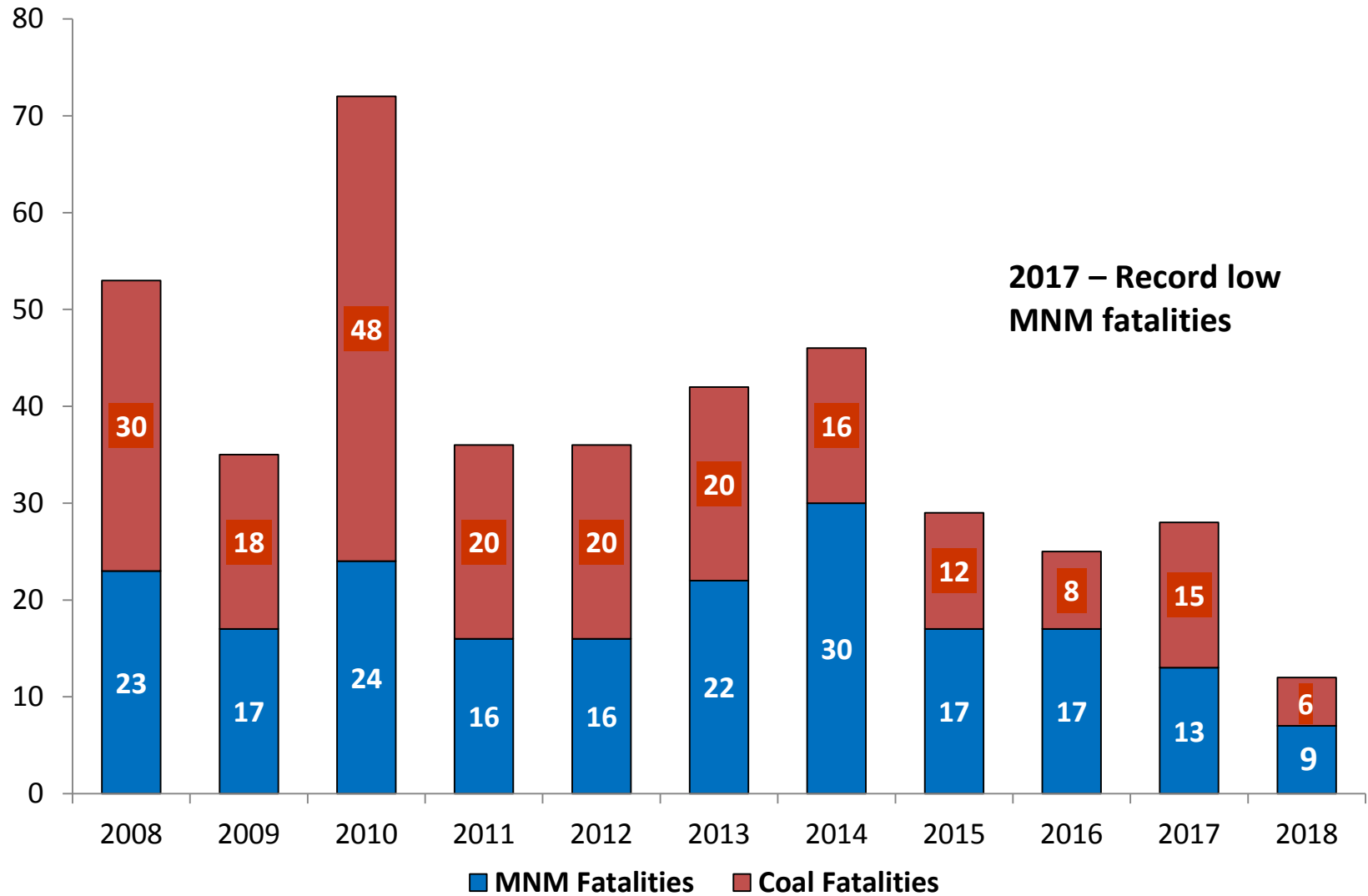
MSHA Employment



*As of July 31, 2018



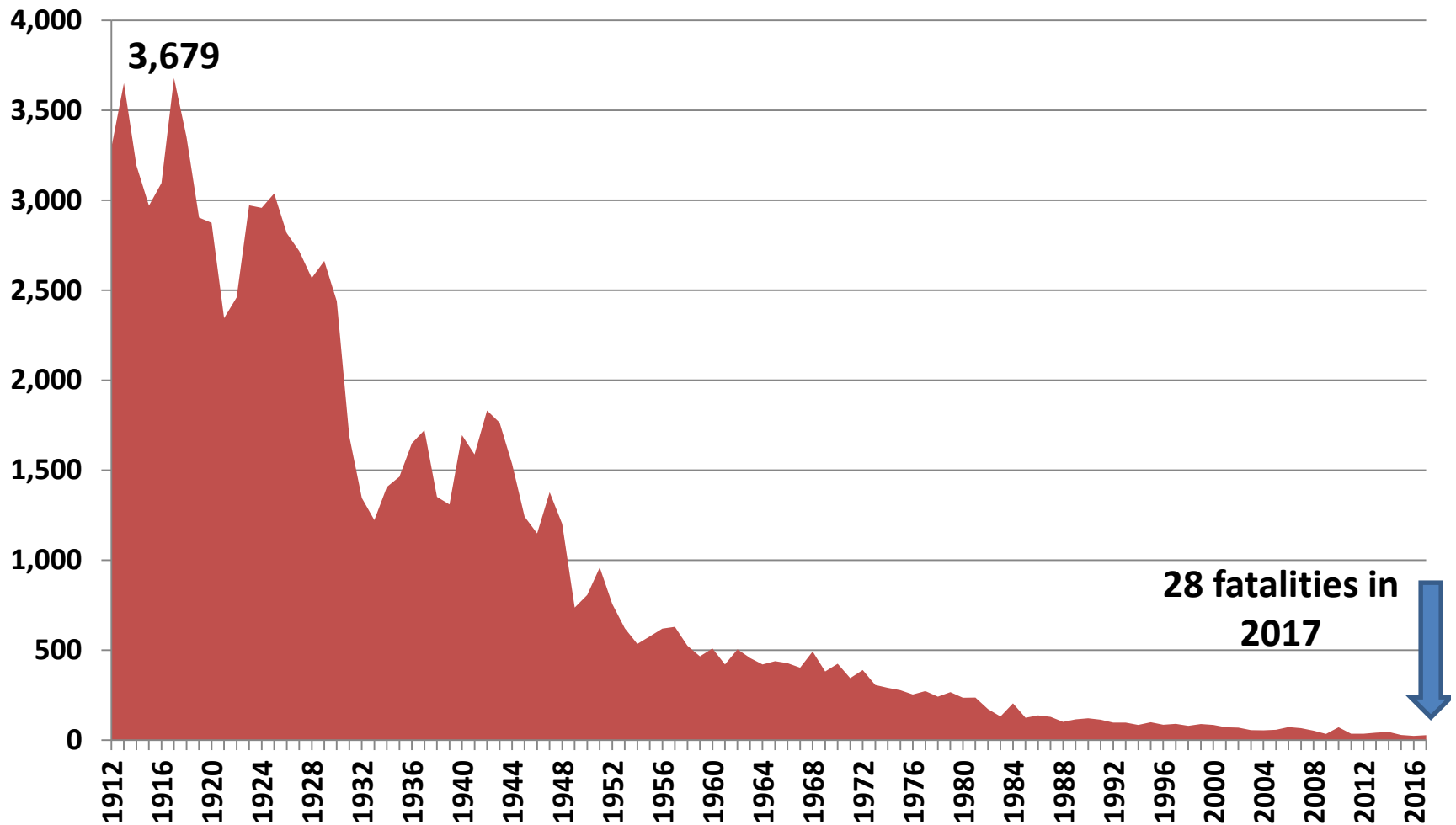
U.S. MINING FATALITIES COAL and METAL/NONMETAL 2008-2018



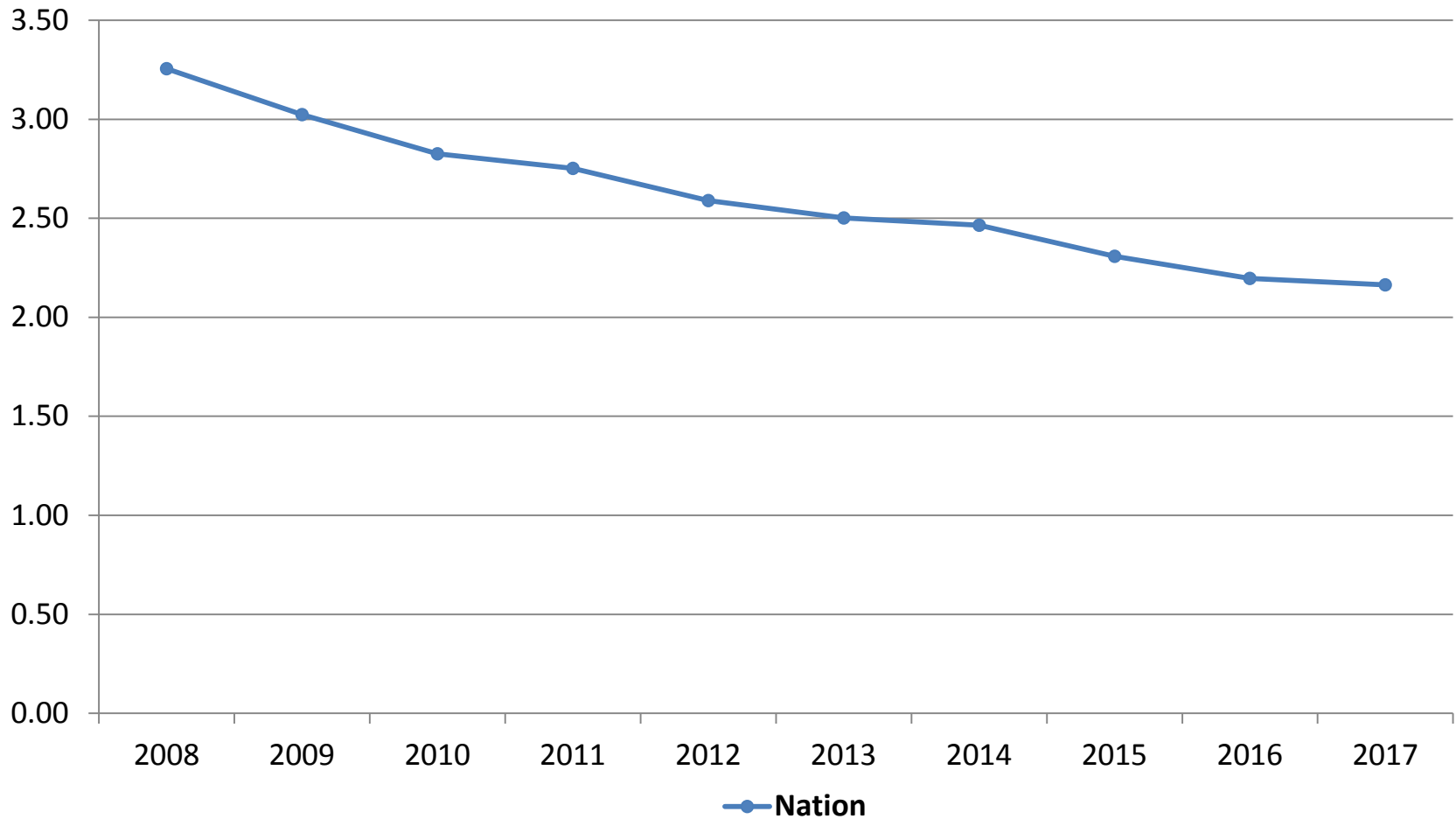
Data as of Sept 3, 2018.



ALL MINING FATALITIES 1912-2017



MINING REPORTABLE INJURY RATES 2008-2017



*The all injury rate represents the number of reportable injuries per 200,000 exposure hours.

NOTE: State employment data reflects operator employment only (contractors do not report employment by state). Therefore, state data only includes operators, while National data includes both operators and contractors.

Data as of April 30, 2018.



Powered Haulage Safety Initiative

- Powered Haulage classification: 50% of fatalities in 2017; more than 50% of fatalities so far in 2018
- New MSHA initiative to reduce powered haulage accidents
- Focus on large equipment and belt conveyors
- Outreach, training, collaboration with operators and miners
- Seeking input from all stakeholders



Seeking Your Input

- Request for Information (RFI) open until December 24 – Mobile Equipment and Belt Conveyors
- Submit comments to www.regulations.gov
- Stakeholder meetings were held in four locations: Birmingham, Dallas, Reno and most recently at the Mine Academy in Beckley
- Held a webinar on August 16
- Additional meetings later this month in Albany and MSHA HQ in Arlington



Large Vehicles Striking Smaller Vehicles

2017 Nationwide: 4 fatalities from large equipment hitting smaller vehicles

Since 2003: 23 such fatalities – Unacceptable!

Proximity detection for surface mines?



Large Vehicles Striking Small Vehicles



Seat Belt Safety

- Three fatalities in 2017, and 35 fatalities since 2007, involved miners not wearing seat belts
- 6000+ MSHA citations issued for failure to wear seatbelts since 2007 (most in MNM mines)



Loader operator saved by wearing seat belt

Belt Conveyor Safety

- Six miners killed working around conveyor belts since January 2017: four in coal, two in MNM
- Since 2008, total of 19 conveyor-related fatalities and 41 conveyor-related permanent injuries
- Guarding, lock-out tag-out, properly using crossovers, all essential for safety

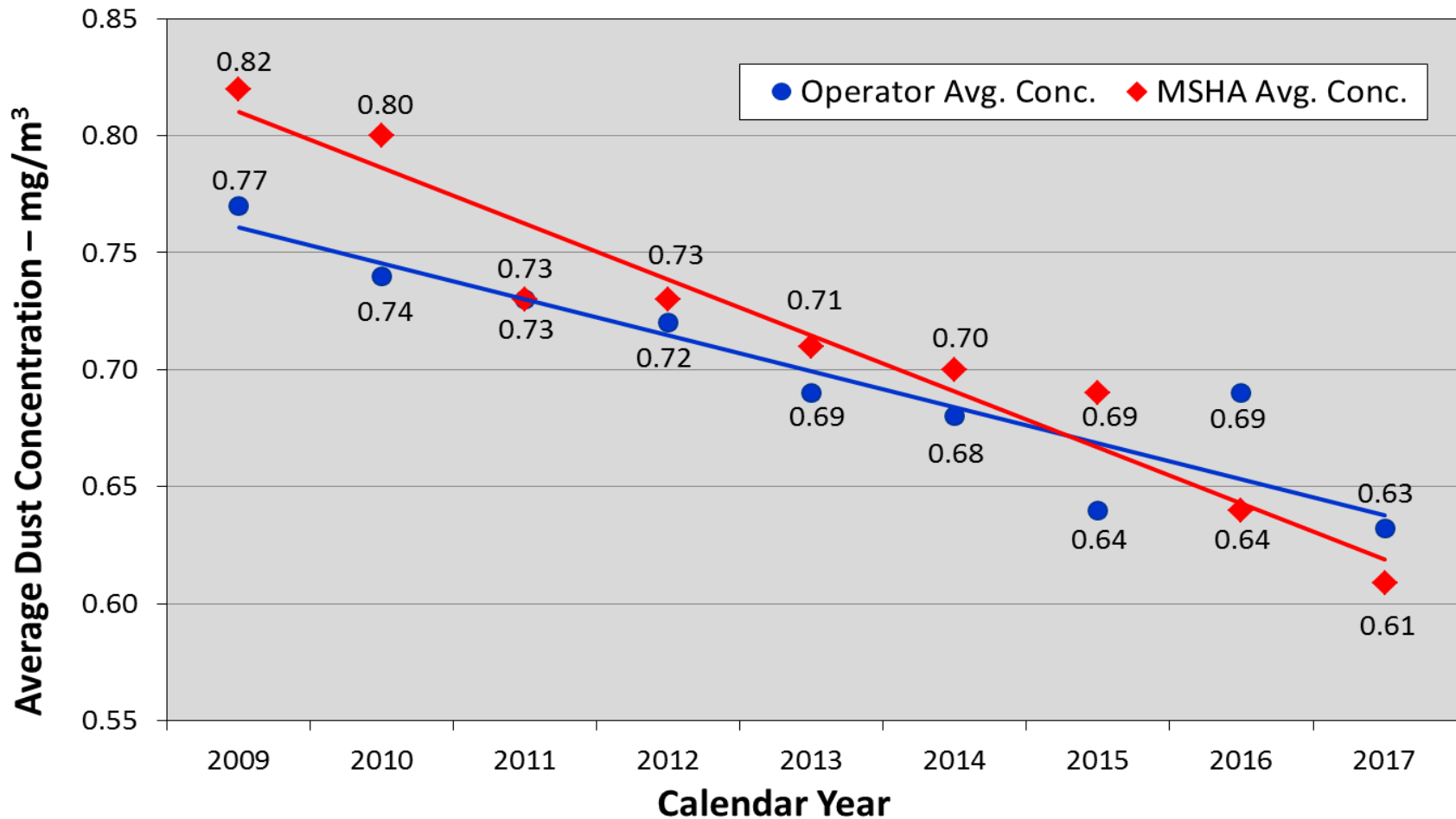


Refuge Alternatives

- Pre-fabricated refuge alternatives in service after December 31, 2018 must have MSHA part 7 approvals for structural components as well as breathable air, harmful gas removal and air monitoring components
- Pre-fabricated refuge alternative structures with only State approvals will no longer be accepted
- Emergency Response Plans (ERPs) may need to be updated to reflect the refuge alternative structural component approval
- Mine operators must provide training on the refuge alternative in the approved ERP



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





Questions?

*"Daddy
© Way*

