

NIOSH / MSHA
Workshop
October 2020



MSHA: Dust Exposures in Mining

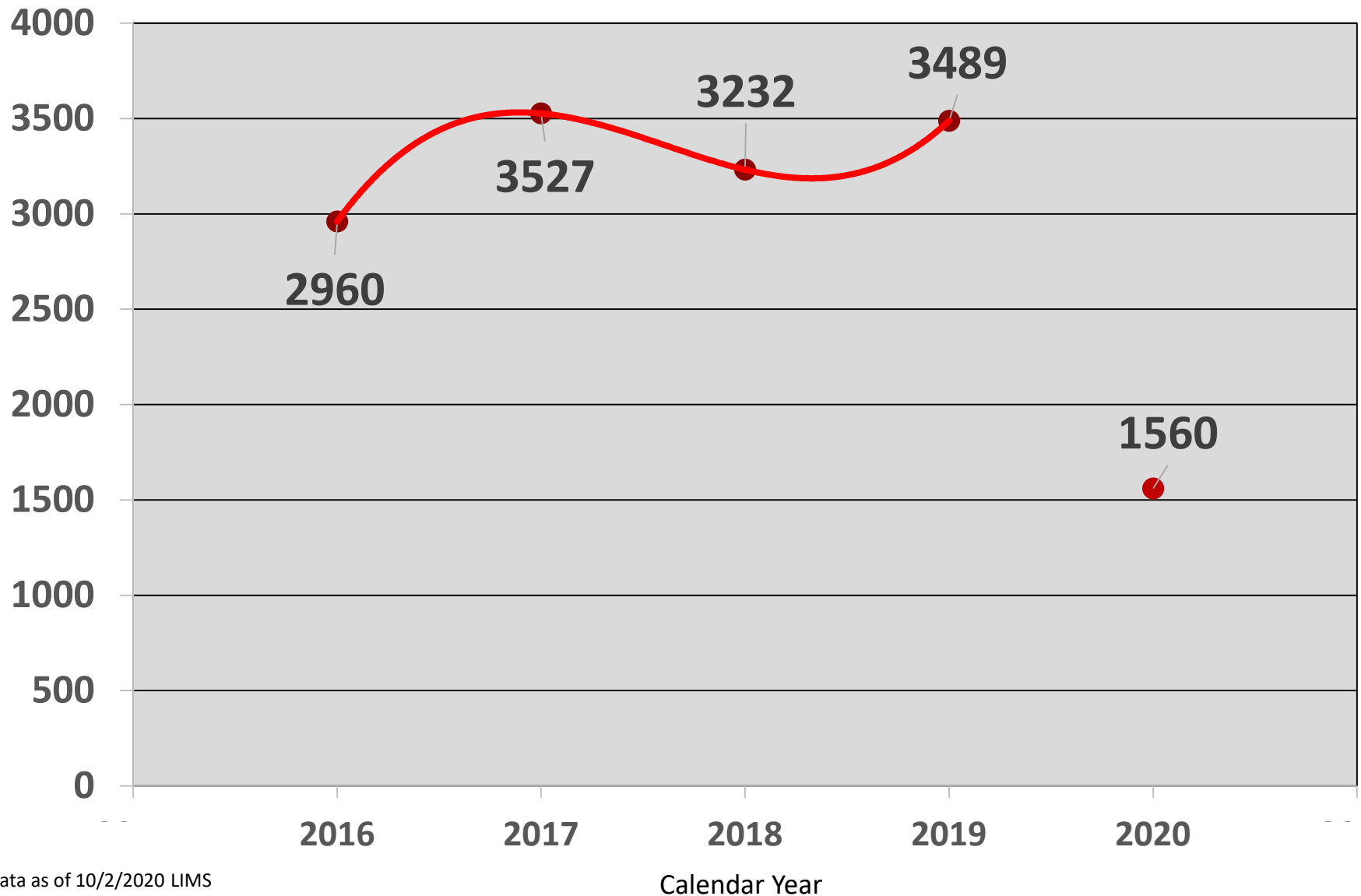
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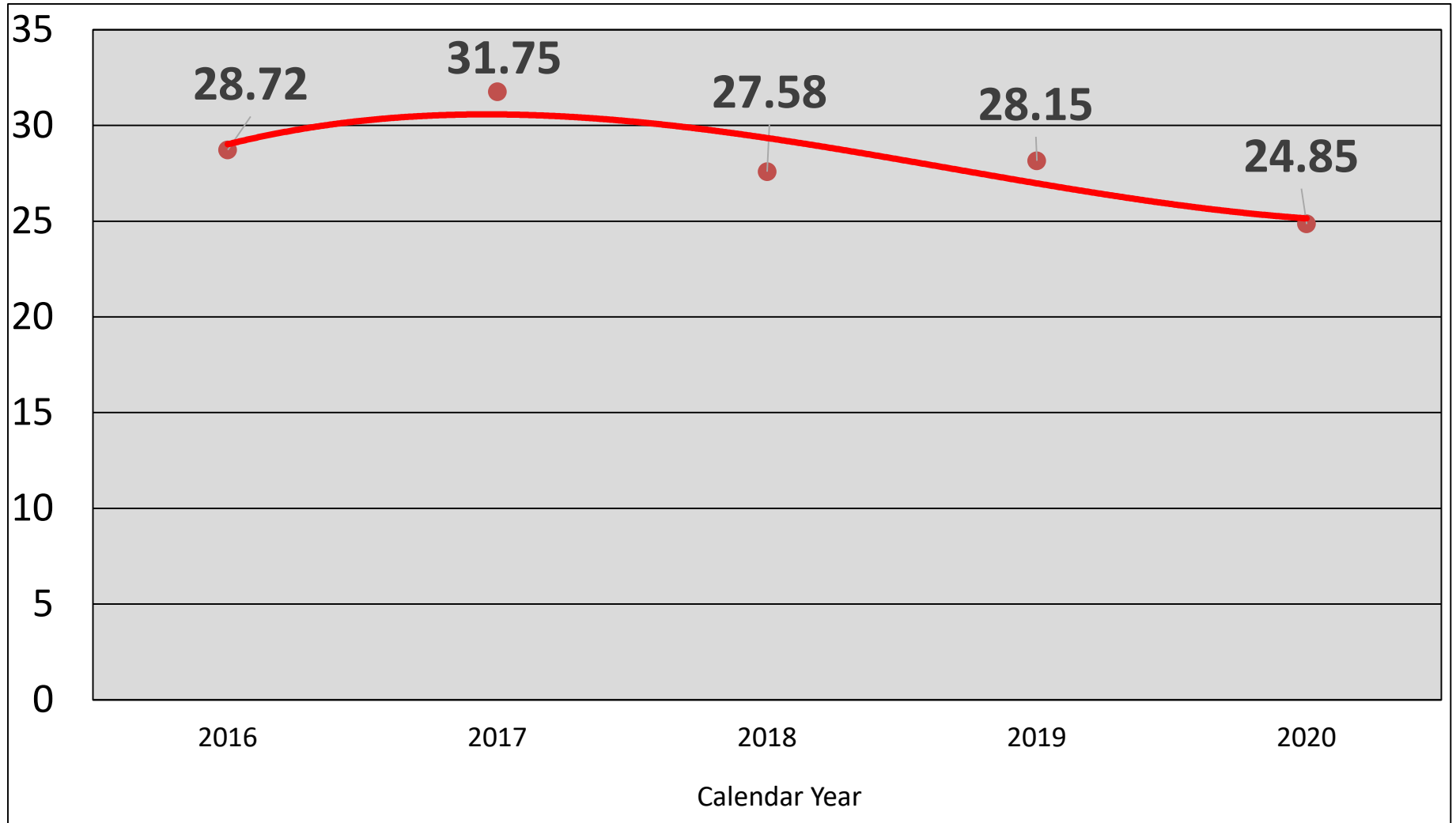
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MNM - Number of Valid MSHA Quartz Samples



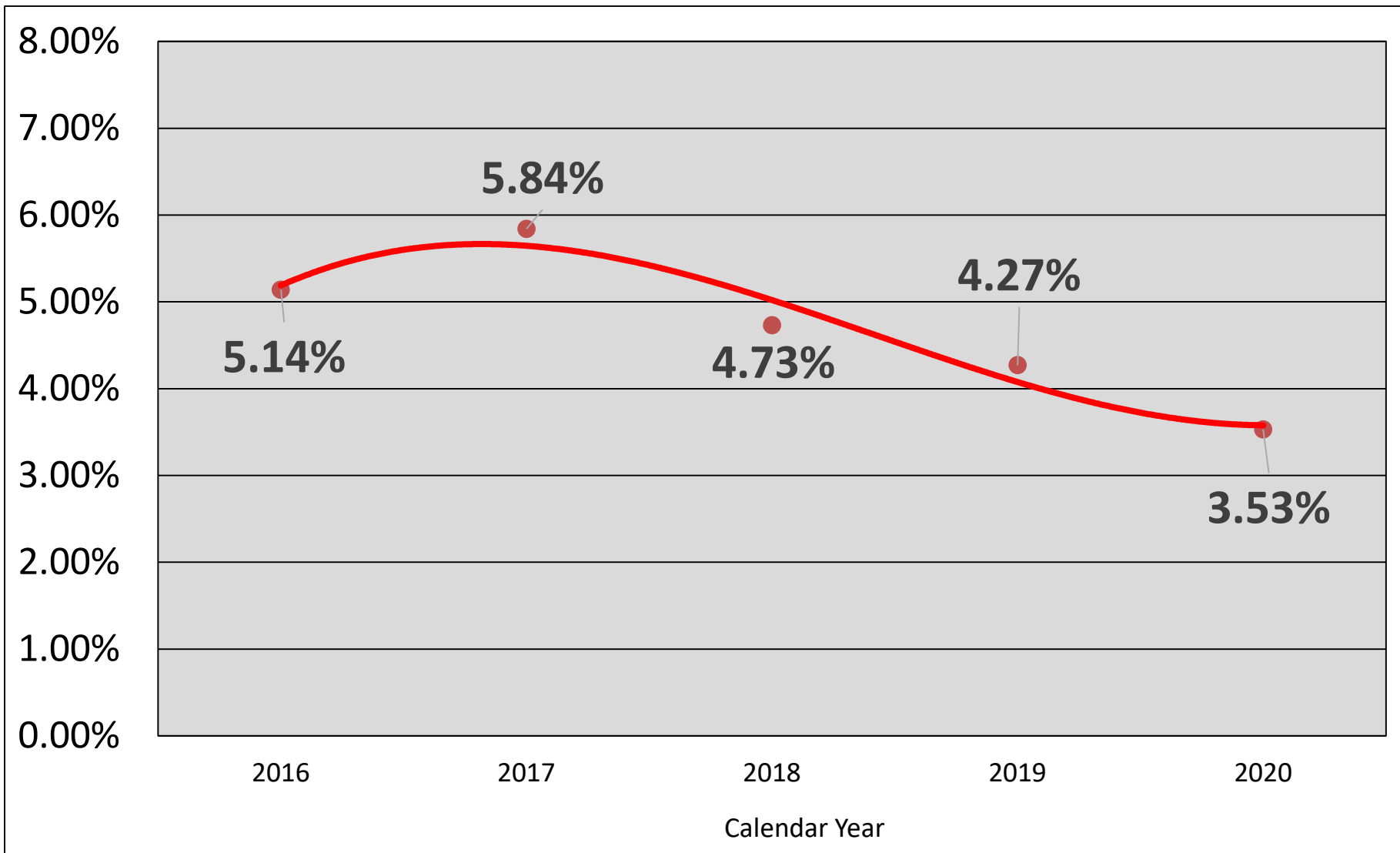
Data as of 10/2/2020 LIMS

MNM – MSHA Quartz Samples Average Quartz Concentration



Data as of 10/2/2020 LIMS

MNM – MSHA Quartz Samples % > 100 $\mu\text{g}/\text{m}^3$



Data as of 10/2/2020 LIMS

Occupations Being Overexposed

- Past Five Years (2016-2020)
- Coal - 833 Quartz Samples Exceeded $100 \mu\text{g}/\text{m}^3$
 - Continuous Mining Machine Operator (170 or 20.4%)
 - Roof Bolting Machine Operator (161 or 19.3%)
 - Longwall Operators (150 or 18.0%)
 - Bulldozer Operator (117 or 14.1%)
 - Highwall Drill Operators (100 or 12%)
 - Face Haulage Equipment Operators (81 or 9.7%)

Occupations Being Overexposed

- Past Five Years (2016-2020)
- MNM - 936 Quartz Samples Exceeding Allowable Limits
 - Crusher Operator (159 or 17.0%)
 - Laborer (115 or 12.3%)
 - Stone Polisher/Cutter (107 or 11.4%)
 - Cleanup Person (68 or 7.3%)
 - Bagging Operator (57 or 6.1%)
 - Utility Person (56 or 6.0%)
 - Front-End Loader Operator (54 or 5.8%)
 - Dry Screen Plant Operator (42 or 4.5%)

Enforcement Practices

- Staff Meetings
- 104(b) Orders
- 103(i) Spot Inspections for Hazardous Conditions



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Thank You

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