Coal - Number of All Valid MSHA & Operator Respirable Dust Samples

Calendar Year

1.5 mg/m³ standard in effect 8/1/16
CPDM required 2/1/16

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Average Designated Occupation* Dust Concentration Underground Coal Mines - MSHA & Operator Samples

* Designated occupations (DO) exposed to the highest levels of respirable coal mine dust.
Coal – All MSHA & Operator Respirable Dust Samples % > Standard

Calendar Year


0.00% 1.00% 2.00% 3.00% 4.00% 5.00% 6.00% 7.00% 8.00% 9.00% 10.00%

9.08% 9.08% 7.98% 7.29% 7.58% 6.40% 6.49% 5.45% 4.47% 3.50% 3.06% 2.36% 0.79% 0.88% 0.91% 0.82% 0.00%

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Coal - Number of All Valid MSHA Quartz Samples

Calendar Year


Number of All Valid MSHA Quartz Samples

0  2,000  4,000  6,000  8,000  10,000  12,000  14,000  16,000

5,294  5,461  6,873  7,280  9,970  11,720  14,000  14,100  14,300  14,634  14,854

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Coal - MSHA Average Designated Occupation* Quartz Concentration by Calendar Year

* Designated occupations (DO) exposed to the highest levels of respirable coal mine dust.
Coal – All MSHA Quartz Samples % >100 µg/m³

Calendar Year