

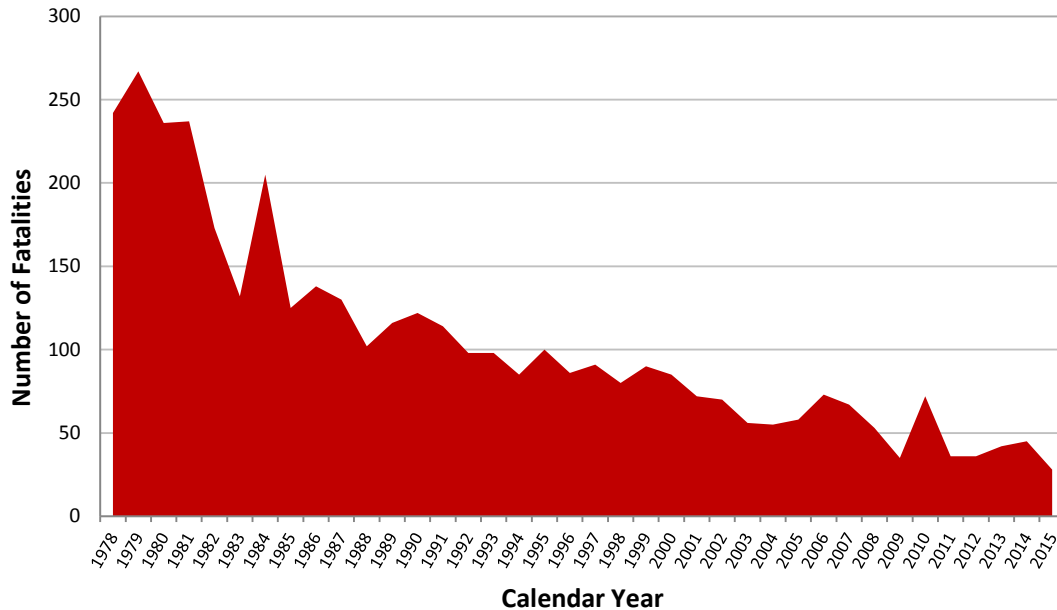
Mine Safety and Health At a Glance

10/11/2016

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

Safety and health in America's mining industry made significant strides during the 20th century and over the last 37 years in particular. In 1978, the first year the Mine Safety and Health Administration (MSHA) operated under the new Federal Mine Safety and Health Act of 1977, 242 miners died in mining accidents. MSHA continues to work to reduce injuries, illnesses and death through strong enforcement as well as active outreach, education and training, and technical support to the mining industry.

U.S. Mining Fatalities CY 1978-2015



All Mine Safety and Health

	<u>CY</u>						
	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Number of Mines	14,631	14,283	14,176	14,093	13,761	13,608	13,299
Number of Miners*	355,720	361,176	381,209	387,878	374,522	366,584	349,898
Fatalities*	35	72	36	36	42	46	29
Fatal Injury Rate ^{1*}	.0119	.0237	.0110	.0110	.0132	.0148	.0099
All Injury Rate ^{1*}	3.01	2.81	2.75	2.56	2.49	2.46	2.30
Total Mining Area Inspection Hours/Mine ²	59	63	62	61	59	58	56
Citations and Orders Issued ^{3, 4}	173,068	170,064	156,365	138,939	118,145	121,189	107,965
S&S Citations and Orders (%)	29%	32%	29%	26%	25%	24%	24%
Dollar Amount Assessed (Millions) ⁴	137.2	162.8	161.2	122.9	94.3	96.8	65.0

*Values are all inclusive of operator and contractor employees.

Coal Mine Safety and Health

	<u>CY</u>						
	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Number of Coal Mines	2,076	1,944	1,973	1,871	1,701	1,632	1,460
Number of Miners*	134,089	135,500	143,437	137,650	123,259	116,010	102,804
Fatalities*	18	48	20	20	20	16	12
Fatal Injury Rate ¹	.0148	.0384	.0148	.0159	.0176	.0150	.0131
All Injury Rate ¹	3.69	3.43	3.43	3.16	3.11	3.11	2.91
States with Coal Mining	26	26	26	26	26	26	26
Coal Production (Millions of Tons)	1,075	1,086	1,095	1,018	984	1,000	897
Total Mining Area Inspection Hours/Mine ²	238	259	258	250	248	252	245
FY Inspection Completion Rate (%)	100	100	100	100	100	100	100
Citations and Orders Issued ^{3, 4}	101,904	96,351	93,067	78,853	63,186	62,514	49,417
S&S Citations and Orders (%)	30%	32%	31%	27%	26%	25%	23%
Dollar Amount Assessed (Millions) ⁴	96.4	110.6	120.1	89.4	65.0	63.1	37.1

*Values are all inclusive of operator and contractor employees.

Metal and Nonmetal Mine Safety and Health

	<u>CY</u>						
	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Number of Metal/Nonmetal Mines	12,555	12,339	12,203	12,222	12,060	11,976	11,839
Number of Miners*	221,631	225,676	237,772	250,228	251,263	250,574	247,094
Fatalities*	17	24	16	16	22	30	17
Fatal Injury Rate ¹	.0098	.0134	.0084	.0079	.0108	.0147	.0084
All Injury Rate ¹	2.54	2.37	2.28	2.19	2.13	2.10	2.02
States with M/NM Mining	50	50	50	50	50	50	50
Total Mining Area Inspection Hours/Mine ²	22	23	23	22	22	23	23
FY Inspection Completion Rate (%)	100	100	100	100	100	100	100**
Citations and Orders Issued ^{3, 4}	71,164	73,713	63,298	60,086	54,959	58,675	58,548
S&S Citations and Orders (%)	29%	31%	26%	25%	24%	24%	25%
Dollar Amount Assessed (Millions) ⁴	40.8	52.2	41.1	33.5	29.3	33.7	27.9

*Values are all inclusive of operator and contractor employees.

**MNM completed 16,602 regular inspections in 2015. Primarily because of the number of intermittent operations in MNM, its inspectors attempted but could not conduct another 703 regular inspections. MNM conducted 100% of mandatory inspections at mines available for inspection in 2015.

Mine Contractors

	<u>CY</u>						
	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>
Coal Fatalities ⁵	8	4	6	2	2	3	2
MNM Fatalities ⁵	6	10	4	3	2	9	6
Total Fatalities ⁵	14	14	10	5	4	12	8
Coal Fatal Injury Rate ¹	.0331	.0158	.0220	.0077	.0088	.0142	.0109
MNM Fatal Injury Rate ¹	.0211	.0326	.0108	.0072	.0046	.0222	.0159
Total Fatal Injury Rate ¹	.0266	.0250	.0155	.0074	.0061	.0195	.0143

1-Reported injuries per 200,000 hours worked.

2-Total Mining Area Time includes: On-site Inspection Time (M/NM), MMU Pit Time (Coal), Outby Area Time (Coal), Surface Area Time (Coal), Citation/Order writing On-Site. On-site inspection hours represent hours entered by Authorized Representatives of the Secretary (AR) for certain inspection activities and task codes.

3-Citations and orders are those not vacated.

4-Citations and Orders issued, and Dollar Amount Assessed, are based on issue date. Therefore, citation counts and dollars assessed can fluctuate, upwards or downwards, depending on the date information was pulled. For example, numbers tend to fluctuate downwards when an issued citation is either conferenced or contested and is subsequently vacated. Dollars assessed can fluctuate upwards when there is a lag time between the issuance date and the assessed date.

5-Contractor fatalities are not exclusive to those reported in the All Mine Safety and Health; Coal Mine Safety and Health; and, Metal and Nonmetal Mine Safety and Health sections of this report.

For more information:

www.msha.gov - MSHA Office of Program Education and Outreach Services, (202) 693-9400