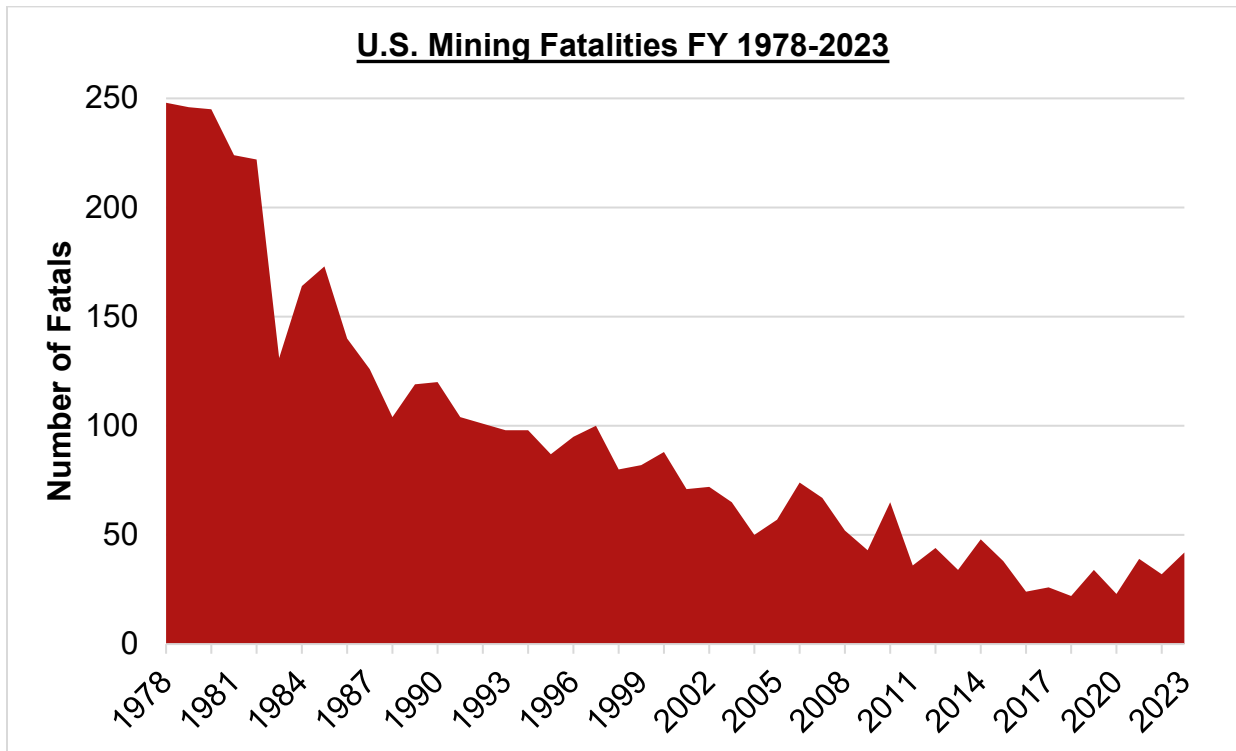


Mine Safety and Health At a Glance

12/04/2023

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 44 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.



All Mine Safety and Health

FY

	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Number of Mines	13,190	13,164	13,105	12,919	12,686	12,701	12,671
Number of Miners*	322,321	332,546	336,312	305,897	298,574	313,504	322,365
Fatalities*	26	22	34	23	39	32	42
Fatal Injury Rate ^{1*}	.0097	.0078	.0119	.0090	.0156	.0119	.0151
All Injury Rate ^{1*}	2.19	2.08	2.06	1.90	1.91	1.88	1.84
Total Mining Area Inspection Hours/Mine ²	53	50	48	42	39	40	41
Citations and Orders Issued ^{3, 4}	103,425	99,597	99,542	82,781	76,994	85,736	94,445
S&S Citations and Orders (%)	21%	20%	20%	18%	19%	19%	19%
Dollar Amount Assessed (Millions) ⁴	54.7	55.6	55.0	42.2	40.9	54.6	67.1

*Values are all inclusive of operator and contractor employees.

Coal Mine Safety and Health

FY

	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Number of Coal Mines	1,225	1,188	1,160	1,057	964	991	1,005
Number of Miners*	83,478	83,023	83,281	68,370	60,716	65,832	68,193
Fatalities*	14	9	15	3	12	12	10
Fatal Injury Rate ^{1*}	.0189	.0118	.0194	.0051	.0225	.0201	.0155
All Injury Rate ^{1*}	3.12	2.96	2.94	2.82	2.85	2.83	2.72
Coal Production (Millions of Tons)	780	757	734	567	565	596	583
Total Mining Area Inspection Hours/Mine ²	250	244	241	208	204	215	220
Citations and Orders Issued ^{3, 4}	46,745	46,170	45,637	31,176	29,037	34,591	39,657
S&S Citations and Orders (%)	21%	20%	20%	17%	18%	19%	20%
Dollar Amount Assessed (Millions) ⁴	27.3	30.3	29.8	18.7	16.3	24.6	30.5

*Values are all inclusive of operator and contractor employees.

Metal and Nonmetal Mine Safety and Health

FY

	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Number of Metal/Nonmetal Mines	11,965	11,976	11,945	11,862	11,722	11,710	11,666
Number of Miners*	238,843	249,523	253,031	237,527	237,858	247,672	254,172
Fatalities*	12	13	19	20	27	20	32
Fatal Injury Rate ^{1*}	.0062	.0063	.0091	.0102	.0138	.0096	.0149
All Injury Rate ^{1*}	1.83	1.75	1.74	1.63	1.65	1.61	1.58
Total Mining Area Inspection Hours/Mine ²	22	22	22	21	20	20	20
Citations and Orders Issued ^{3, 4}	56,680	53,427	53,905	51,605	47,957	51,145	54,788
S&S Citations and Orders (%)	22%	21%	20%	18%	19%	19%	19%
Dollar Amount Assessed (Millions) ⁴	27.5	25.4	25.2	23.4	24.6	29.9	36.7

*Values are all inclusive of operator and contractor employees.

Mine Contractors

FY

	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>
Coal Fatalities ⁵	1	0	3	0	3	2	4
MNM Fatalities ⁵	2	0	7	4	5	4	6
Total Fatalities ⁵	3	0	10	4	8	6	10
Coal Fatal Injury Rate ¹	.0070	.0000	.0194	.0000	.0299	.0180	.0328
MNM Fatal Injury Rate ¹	.0060	.0000	.0186	.0120	.0144	.0099	.0142
Total Fatal Injury Rate ¹	.0063	.0000	.0188	.0090	.0179	.0117	.0184

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