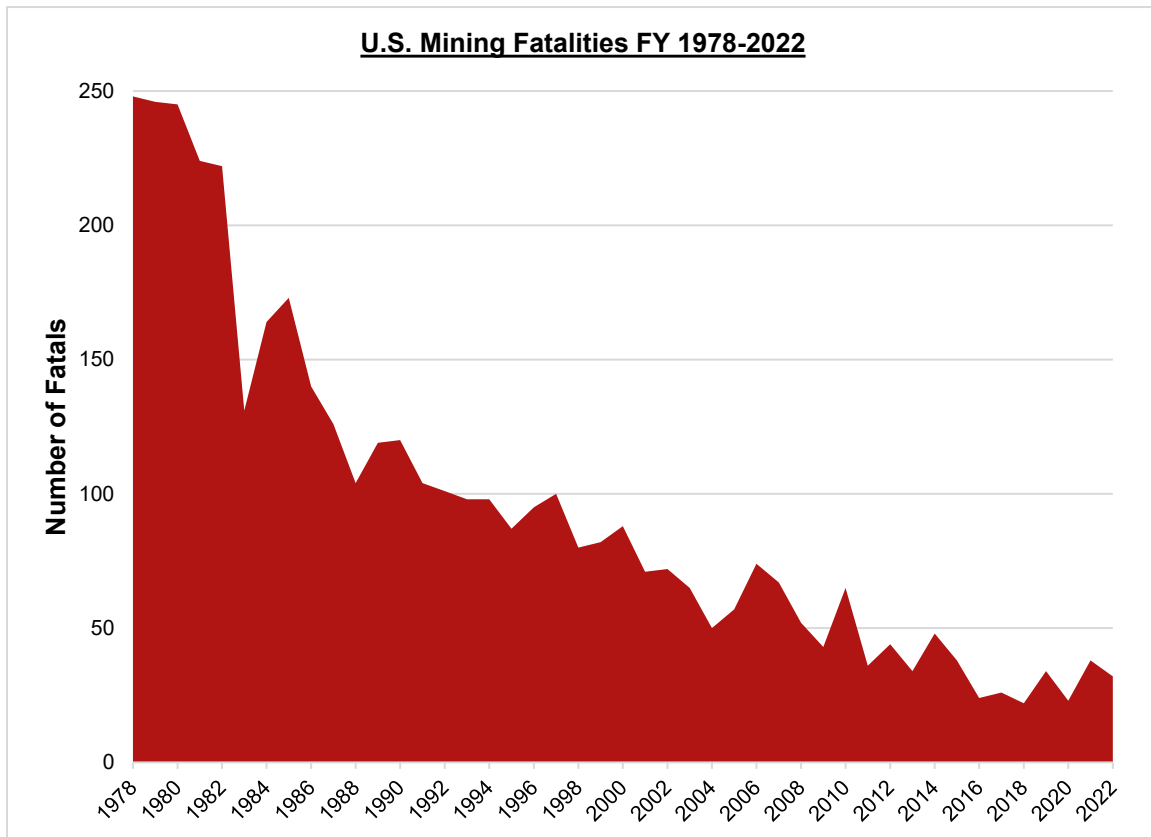


# Mine Safety and Health At a Glance

8/21/2023

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>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>
Number of Mines	13,267	13,190	13,164	13,105	12,917	12,684	12,697
Number of Miners*	327,257	322,321	332,546	336,312	305,882	298,543	313,290
Fatalities*	24	26	22	34	23	38	32
Fatal Injury Rate <sup>1*</sup>	.0089	.0097	.0078	.0119	.0090	.0152	.0119
All Injury Rate <sup>1*</sup>	2.17	2.19	2.08	2.06	1.90	1.91	1.88
Total Mining Area Inspection Hours/Mine <sup>2</sup>	52	53	50	48	42	39	40
Citations and Orders Issued <sup>3,4</sup>	96,528	103,425	99,597	99,542	82,781	76,994	85,763
S&S Citations and Orders (%)	22%	21%	20%	20%	18%	19%	19%
Dollar Amount Assessed (Millions) <sup>4</sup>	53.7	54.7	55.6	55.	42.2	40.9	54.5

\*Values are all inclusive of operator and contractor employees.

## Coal Mine Safety and Health

FY

	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>
Number of Coal Mines	1,328	1,225	1,188	1,160	1,057	964	991
Number of Miners*	85,656	83,478	83,023	83,281	68,366	60,706	65,825
Fatalities*	8	14	9	15	3	11	12
Fatal Injury Rate <sup>1*</sup>	.0110	.0189	.0118	.0194	.0051	.0207	.0201
All Injury Rate <sup>1*</sup>	2.80	3.12	2.96	2.94	2.81	2.85	2.80
Coal Production (Millions of Tons)	736	780	757	734	567	565	596
Total Mining Area Inspection Hours/Mine <sup>2</sup>	244	250	244	241	208	204	215
Citations and Orders Issued <sup>3, 4</sup>	40,259	46,745	46,170	45,637	31,176	29,037	34,595
S&S Citations and Orders (%)	21%	21%	20%	20%	17%	18%	20%
Dollar Amount Assessed (Millions) <sup>4</sup>	27.	27.3	30.3	29.8	18.7	16.3	24.6

\*Values are all inclusive of operator and contractor employees.

## Metal and Nonmetal Mine Safety and Health

FY

	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>
Number of Metal/Nonmetal Mines	11,939	11,965	11,976	11,945	11,860	11,720	11,706
Number of Miners*	241,601	238,843	249,523	253,031	237,516	237,837	247,465
Fatalities*	16	12	13	19	20	27	20
Fatal Injury Rate <sup>1*</sup>	.0082	.0062	.0063	.0091	.0102	.0138	.0096
All Injury Rate <sup>1*</sup>	1.94	1.83	1.75	1.74	1.63	1.65	1.61
Total Mining Area Inspection Hours/Mine <sup>2</sup>	21	22	22	22	21	20	20
Citations and Orders Issued <sup>3, 4</sup>	56,269	56,680	53,427	53,905	51,605	47,957	51,168
S&S Citations and Orders (%)	23%	22%	21%	20%	18%	19%	19%
Dollar Amount Assessed (Millions) <sup>4</sup>	26.7	27.5	25.4	25.2	23.4	24.6	29.9

\*Values are all inclusive of operator and contractor employees.

## Mine Contractors

FY

	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>
Coal Fatalities <sup>5</sup>	0	1	0	3	0	2	2
MNM Fatalities <sup>5</sup>	5	2	0	7	4	5	4
Total Fatalities <sup>5</sup>	5	3	0	10	4	7	6
Coal Fatal Injury Rate <sup>1</sup>	.0000	.0070	.0000	.0194	.0000	.0200	.0180
MNM Fatal Injury Rate <sup>1</sup>	.0145	.0060	.0000	.0186	.0120	.0144	.0099
Total Fatal Injury Rate <sup>1</sup>	.0103	.0063	.0000	.0188	.0090	.0157	.0117

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