

MSHA (By the Numbers FY 1978-2022) - Includes Fatal and Injury Rates

All Mine Safety and Health	2016	2017	2018	2019	2020	2021	2022
Citations and Orders Issued ^{1, 2}	96,528	103,425	99,597	99,542	82,783	77,014	85,965
Elevated Enforcement Actions	2,200	2,289	2,158	1,988	1,691	1,468	2,075
S&S Citations and Orders (%)	22%	21%	20%	20%	18%	19%	20%
Dollar Amount Assessed (Millions) ²	53.7	54.7	55.6	55.0	42.2	41.0	53.3
Fatal Injury Rate ^{3*}	.0089	.0097	.0078	.0119	.0090	.0152	.0120
NFDL Rate ^{3*}	1.47	1.52	1.42	1.41	1.33	1.38	1.31
Lost-Time Rate ^{3*}	1.48	1.53	1.43	1.42	1.34	1.39	1.32
All Injury Rate ^{3*}	2.17	2.19	2.08	2.06	1.90	1.90	1.86

All Mine Safety and Health	2009	2010	2011	2012	2013	2014	2015
Citations and Orders Issued ^{1, 2}	173,725	172,088	157,627	144,934	121,979	119,839	112,342
Elevated Enforcement Actions	4,918	6,037	5,384	4,295	3,098	3,399	3,054
S&S Citations and Orders (%)	28%	32%	29%	27%	25%	25%	24%
Dollar Amount Assessed (Millions) ²	136.9	159.7	149.6	143.6	95.9	99.0	71.6
Fatal Injury Rate ^{3*}	.0140	.0219	.0112	.0133	.0106	.0154	.0126
NFDL Rate ^{3*}	2.06	1.91	1.80	1.77	1.67	1.69	1.63
Lost-Time Rate ^{3*}	2.07	1.93	1.81	1.79	1.68	1.71	1.64
All Injury Rate ^{3*}	3.06	2.86	2.77	2.65	2.48	2.46	2.39

All Mine Safety and Health	2002	2003	2004	2005	2006	2007	2008
Citations and Orders Issued ^{1, 2}	113,285	104,622	119,716	124,756	139,758	136,865	171,842
Elevated Enforcement Actions	3,089	2,963	4,094	4,102	4,839	4,598	4,924
S&S Citations and Orders (%)	32%	31%	33%	32%	32%	30%	27%
Dollar Amount Assessed (Millions) ²	22.7	20.9	24.6	26.6	39.1	98.8	154.3
Fatal Injury Rate ^{3*}	.0242	.0229	.0169	.0182	.0225	.0200	.0152
NFDL Rate ^{3*}	3.20	2.92	2.69	2.64	2.47	2.36	2.18
Lost-Time Rate ^{3*}	3.23	2.94	2.71	2.66	2.49	2.38	2.20
All Injury Rate ^{3*}	4.63	4.17	3.98	3.93	3.72	3.50	3.27

All Mine Safety and Health	1995	1996	1997	1998	1999	2000	2001
Citations and Orders Issued ^{1, 2}	127,637	108,489	113,883	119,006	113,611	118,966	124,250
Elevated Enforcement Actions	3,854	3,008	2,947	3,537	3,116	3,120	3,202
S&S Citations and Orders (%)	41%	37%	36%	37%	36%	36%	34%
Dollar Amount Assessed (Millions) ²	22.9	17.8	19.3	25.7	26.6	25.5	22.5
Fatal Injury Rate ^{3*}	.0262	.0289	.0302	.0244	.0255	.0279	.0229
NFDL Rate ^{3*}	4.33	3.86	3.66	3.75	3.50	3.46	3.29
Lost-Time Rate ^{3*}	4.36	3.89	3.69	3.78	3.53	3.49	3.31
All Injury Rate ^{3*}	6.46	5.83	5.57	5.57	5.17	5.07	4.86

All Mine Safety and Health	1988	1989	1990	1991	1992	1993	1994
Citations and Orders Issued ^{1, 2}	162,293	158,543	159,222	157,882	148,385	138,127	136,841
Elevated Enforcement Actions	7,766	6,528	6,430	7,312	6,227	5,695	5,680
S&S Citations and Orders (%)	59%	58%	57%	54%	50%	47%	45%
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}	.0288	.0326	.0323	.0292	.0295	.0301	.0296
NFDL Rate ^{3*}	5.94	5.91	5.81	5.66	5.21	4.87	4.73
Lost-Time Rate ^{3*}	5.96	5.95	5.84	5.69	5.24	4.90	4.76
All Injury Rate ^{3*}	8.93	9.11	8.52	8.20	7.66	7.17	6.97

All Mine Safety and Health	1981	1982	1983	1984	1985	1986	1987
Citations and Orders Issued ^{1, 2}	N/A	N/A	N/A	129,539	132,908	133,701	146,622
Elevated Enforcement Actions	N/A	N/A	N/A	5,732	6,849	6,390	6,775
S&S Citations and Orders (%)	N/A	N/A	N/A	43%	55%	60%	58%
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}	N/A	N/A	N/A	.0422	.0462	.0386	.0358
NFDL Rate ^{3*}	N/A	N/A	N/A	4.17	3.93	4.21	5.19
Lost-Time Rate ^{3*}	N/A	N/A	N/A	4.22	3.97	4.24	5.22
All Injury Rate ^{3*}	N/A	N/A	N/A	5.72	5.47	5.86	7.56

All Mine Safety and Health	N/A	N/A	N/A	N/A	1978	1979	1980
Citations and Orders Issued ^{1, 2}	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Elevated Enforcement Actions	N/A	N/A	N/A	N/A	N/A	N/A	N/A
S&S Citations and Orders (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NFDL Rate ^{3*}	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lost-Time Rate ^{3*}	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Injury Rate ^{3*}	N/A	N/A	N/A	N/A	N/A	N/A	N/A

NOTE: Fiscal Year 1978-1983 data not available in the MSIS

NOTE: The following metrics - Citations and Orders Issued; Fatal Injury Rate; and, All Injury Rate - are all reported in the MSHA At A Glance Report. All other metrics reported between 1983-2022 are pulled by MSIS.

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3-Reported injuries per 200,000 hours worked.

COAL Only (By the Numbers FY 1978-2022) - Includes Fatal and Injury Rates

Coal Mine Safety and Health	2016	2017	2018	2019	2020	2021	2022
Citations and Orders Issued ^{1, 2}	40,259	46,745	46,170	45,637	31,178	29,041	34,656
Elevated Enforcement Actions	512	613	661	620	424	396	750
S&S Citations and Orders (%)	21%	21%	20%	20%	17%	18%	20%
Dollar Amount Assessed (Millions) ²	27.0	27.3	30.3	29.8	18.7	16.4	23.9
Fatal Injury Rate ^{3*}	.0110	.0189	.0118	.0194	.0051	.0207	.0202
NFDL Rate ^{3*}	1.96	2.20	2.05	2.01	2.03	2.14	2.00
Lost-Time Rate ^{3*}	1.97	2.22	2.06	2.02	2.04	2.16	2.02
All Injury Rate ^{3*}	2.80	3.12	2.96	2.94	2.81	2.84	2.77

Coal Mine Safety and Health	2009	2010	2011	2012	2013	2014	2015
Citations and Orders Issued ^{1, 2}	105,439	97,573	93,033	83,680	65,388	62,225	53,280
Elevated Enforcement Actions	2,619	2,794	2,776	2,087	1,200	1,252	873
S&S Citations and Orders (%)	30%	31%	31%	28%	26%	25%	24%
Dollar Amount Assessed (Millions) ²	99.6	107.3	108.4	107.5	67.4	64.3	43.5
Fatal Injury Rate ^{3*}	.0159	.0412	.0120	.0183	.0156	.0166	.0154
NFDL Rate ^{3*}	2.58	2.34	2.27	2.20	2.10	2.17	2.12
Lost-Time Rate ^{3*}	2.60	2.38	2.28	2.22	2.11	2.18	2.13
All Injury Rate ^{3*}	3.75	3.49	3.46	3.29	3.11	3.12	3.05

Coal Mine Safety and Health	2002	2003	2004	2005	2006	2007	2008
Citations and Orders Issued ^{1, 2}	61,706	55,277	62,560	67,633	76,984	78,330	104,134
Elevated Enforcement Actions	1,573	1,425	1,864	1,957	2,490	2,471	2,850
S&S Citations and Orders (%)	38%	38%	41%	39%	39%	36%	32%
Dollar Amount Assessed (Millions) ²	14.0	12.8	15.3	16.2	26.7	73.2	120.6
Fatal Injury Rate ^{3*}	.0321	.0332	.0240	.0209	.0384	.0300	.0245
NFDL Rate ^{3*}	4.44	4.00	3.49	3.25	3.08	3.02	2.71
Lost-Time Rate ^{3*}	4.47	4.03	3.51	3.27	3.12	3.05	2.74
All Injury Rate ^{3*}	6.00	5.39	4.95	4.62	4.55	4.29	3.96

Coal Mine Safety and Health	1995	1996	1997	1998	1999	2000	2001
Citations and Orders Issued ^{1, 2}	84,821	72,980	68,279	63,481	58,159	56,782	66,499
Elevated Enforcement Actions	2,751	2,090	1,626	1,438	1,429	1,231	1,672
S&S Citations and Orders (%)	49%	42%	39%	41%	41%	41%	41%
Dollar Amount Assessed (Millions) ²	17.0	12.6	11.2	12.9	14.1	11.5	12.5
Fatal Injury Rate ^{3*}	.0356	.0340	.0331	.0250	.0352	.0348	.0405
NFDL Rate ^{3*}	6.32	5.56	5.12	5.30	4.92	4.98	4.47
Lost-Time Rate ^{3*}	6.35	5.60	5.15	5.32	4.95	5.02	4.51
All Injury Rate ^{3*}	8.33	7.49	7.03	7.15	6.57	6.60	6.14

Coal Mine Safety and Health	1988	1989	1990	1991	1992	1993	1994
Citations and Orders Issued ^{1, 2}	116,646	108,093	109,873	111,230	95,240	91,711	89,515
Elevated Enforcement Actions	6,641	5,303	5,018	5,766	4,593	4,405	4,397
S&S Citations and Orders (%)	69%	69%	68%	62%	60%	56%	54%
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}	.0358	.0459	.0436	.0381	.0373	.0395	.0411
NFDL Rate ^{3*}	8.22	7.96	7.94	7.85	7.41	6.99	6.78
Lost-Time Rate ^{3*}	8.26	8.01	7.98	7.89	7.44	7.03	6.82
All Injury Rate ^{3*}	11.05	10.67	10.31	10.14	9.63	9.13	8.90

Coal Mine Safety and Health	1981	1982	1983	1984	1985	1986	1987
Citations and Orders Issued ^{1, 2}	N/A	N/A	N/A	109,664	108,873	104,542	110,220
Elevated Enforcement Actions	N/A	N/A	N/A	5,281	6,213	5,781	5,955
S&S Citations and Orders (%)	N/A	N/A	N/A	46%	59%	66%	65%
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}	N/A	N/A	N/A	.0472	.0577	.0519	.0386
NFDL Rate ^{3*}	N/A	N/A	N/A	5.47	5.12	5.46	7.19
Lost-Time Rate ^{3*}	N/A	N/A	N/A	5.52	5.18	5.52	7.23
All Injury Rate ^{3*}	N/A	N/A	N/A	6.89	6.58	7.05	9.61

Coal Mine Safety and Health	N/A	N/A	N/A	N/A	1978	1979	1980
Citations and Orders Issued ^{1, 2}	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Elevated Enforcement Actions	N/A	N/A	N/A	N/A	N/A	N/A	N/A
S&S Citations and Orders (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NFDL Rate ^{3*}	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lost-Time Rate ^{3*}	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Injury Rate ^{3*}	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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3-Reported injuries per 200,000 hours worked.

MNM Only (By the Numbers FY 1978-2022) - Includes Fatal and Injury Rates

MNM Mine Safety and Health	2016	2017	2018	2019	2020	2021	2022
Citations and Orders Issued ^{1, 2}	56,269	56,680	53,427	53,905	51,605	47,973	51,309
Elevated Enforcement Actions	1,688	1,676	1,497	1,368	1,267	1,072	1,325
S&S Citations and Orders (%)	23%	22%	21%	20%	18%	19%	19%
Dollar Amount Assessed (Millions) ²	26.7	27.5	25.4	25.2	23.4	24.6	29.4
Fatal Injury Rate ^{3*}	.0082	.0062	.0063	.0091	.0102	.0138	.0097
NFDL Rate ^{3*}	1.29	1.26	1.19	1.19	1.12	1.17	1.11
Lost-Time Rate ^{3*}	1.30	1.26	1.19	1.20	1.13	1.18	1.12
All Injury Rate ^{3*}	1.94	1.83	1.75	1.74	1.63	1.65	1.60

MNM Mine Safety and Health	2009	2010	2011	2012	2013	2014	2015
Citations and Orders Issued ^{1, 2}	68,286	74,515	64,594	61,254	56,591	57,614	59,062
Elevated Enforcement Actions	2,299	3,243	2,608	2,208	1,898	2,147	2,181
S&S Citations and Orders (%)	26%	32%	27%	25%	24%	24%	25%
Dollar Amount Assessed (Millions) ²	37.3	52.4	41.2	36.1	28.5	34.7	28.1
Fatal Injury Rate ^{3*}	.0127	.0085	.0106	.0100	.0078	.0147	.0113
NFDL Rate ^{3*}	1.69	1.61	1.47	1.49	1.42	1.44	1.39
Lost-Time Rate ^{3*}	1.70	1.62	1.48	1.50	1.43	1.46	1.41
All Injury Rate ^{3*}	2.58	2.43	2.29	2.23	2.13	2.11	2.07

MNM Mine Safety and Health	2002	2003	2004	2005	2006	2007	2008
Citations and Orders Issued ^{1, 2}	51,579	49,345	57,156	57,123	62,774	58,535	67,708
Elevated Enforcement Actions	1,516	1,538	2,230	2,145	2,349	2,127	2,074
S&S Citations and Orders (%)	25%	24%	24%	23%	23%	22%	21%
Dollar Amount Assessed (Millions) ²	8.7	8.1	9.4	10.4	12.4	25.6	33.7
Fatal Injury Rate ^{3*}	.0201	.0176	.0133	.0167	.0137	.0146	.0100
NFDL Rate ^{3*}	2.55	2.37	2.28	2.31	2.13	2.01	1.89
Lost-Time Rate ^{3*}	2.57	2.39	2.30	2.33	2.15	2.03	1.90
All Injury Rate ^{3*}	3.91	3.54	3.47	3.55	3.26	3.07	2.89

MNM Mine Safety and Health	1995	1996	1997	1998	1999	2000	2001
Citations and Orders Issued ^{1, 2}	42,816	35,509	45,604	55,525	55,452	62,184	57,751
Elevated Enforcement Actions	1,103	918	1,321	2,099	1,687	1,889	1,530
S&S Citations and Orders (%)	27%	27%	31%	32%	30%	30%	27%
Dollar Amount Assessed (Millions) ²	5.9	5.2	8.0	12.8	12.5	14.0	10.0
Fatal Injury Rate ^{3*}	.0208	.0261	.0286	.0240	.0208	.0248	.0144
NFDL Rate ^{3*}	3.20	2.94	2.89	2.96	2.82	2.77	2.71
Lost-Time Rate ^{3*}	3.22	2.97	2.92	2.98	2.84	2.80	2.72
All Injury Rate ^{3*}	5.39	4.94	4.79	4.75	4.48	4.38	4.23

MNM Mine Safety and Health	1988	1989	1990	1991	1992	1993	1994
Citations and Orders Issued ^{1, 2}	45,647	50,450	49,349	46,652	53,145	46,416	47,326
Elevated Enforcement Actions	1,125	1,225	1,412	1,546	1,634	1,290	1,283
S&S Citations and Orders (%)	35%	34%	33%	35%	32%	30%	27%
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}	.0237	.0233	.0241	.0230	.0242	.0241	.0225
NFDL Rate ^{3*}	4.24	4.48	4.27	4.11	3.70	3.52	3.46
Lost-Time Rate ^{3*}	4.26	4.50	4.29	4.14	3.73	3.54	3.48
All Injury Rate ^{3*}	7.36	8.01	7.23	6.83	6.30	5.93	5.78

MNM Mine Safety and Health	1981	1982	1983	1984	1985	1986	1987
Citations and Orders Issued ^{1, 2}	N/A	N/A	N/A	19,875	24,035	29,159	36,402
Elevated Enforcement Actions	N/A	N/A	N/A	451	636	609	820
S&S Citations and Orders (%)	N/A	N/A	N/A	26%	35%	38%	35%
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}	N/A	N/A	N/A	.0374	.0357	.0266	.0336
NFDL Rate ^{3*}	N/A	N/A	N/A	2.92	2.84	3.08	3.56
Lost-Time Rate ^{3*}	N/A	N/A	N/A	2.96	2.88	3.11	3.59
All Injury Rate ^{3*}	N/A	N/A	N/A	4.59	4.46	4.79	5.89

MNM Mine Safety and Health	N/A	N/A	N/A	N/A	1978	1979	1980
Citations and Orders Issued ^{1, 2}	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Elevated Enforcement Actions	N/A	N/A	N/A	N/A	N/A	N/A	N/A
S&S Citations and Orders (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NFDL Rate ^{3*}	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lost-Time Rate ^{3*}	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Injury Rate ^{3*}	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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