

MSHA BY THE NUMBERS (CY 1978-2017) - Includes Fatal and Injury Rates

All Mine Safety and Health	2011	2012	2013	2014	2015	2016	2017
Citations and Orders Issued ^{1, 2}	156,337	138,921	118,135	121,112	107,733	97,075	105,151
Elevated Enforcement Actions	5,152	3,885	3,009	3,428	2,640	2,240	2,627
S&S Citations and Orders (%)	29%	27%	25%	25%	24%	22%	22%
Dollar Amount Assessed (Millions) ²	161.1M	123.2M	94.6M	97.1M	65.2M	51.9M	49.4M
Fatal Injury Rate ^{3*}	.0110	.0110	.0132	.0148	.0099	.0095	.0104
NFDL Rate ^{3*}	1.80	1.72	1.69	1.70	1.57	1.50	1.49
Lost-Time Rate ^{3*}	1.81	1.74	1.70	1.72	1.58	1.51	1.50
All Injury Rate ^{3*}	2.75	2.59	2.50	2.47	2.31	2.19	2.15

All Mine Safety and Health	2004	2005	2006	2007	2008	2009	2010
Citations and Orders Issued ^{1, 2}	120,584	127,754	140,059	144,068	173,514	173,053	170,057
Elevated Enforcement Actions	4,114	4,094	4,880	4,752	4,825	5,242	6,145
S&S Citations and Orders (%)	33%	32%	32%	29%	28%	30%	32%
Dollar Amount Assessed (Millions) ²	24.8M	28.1M	42.8M	129.4M	142.1M	136.7M	162.3M
Fatal Injury Rate ^{3*}	.0184	.0183	.0220	.0199	.0156	.0118	.0237
NFDL Rate ^{3*}	2.69	2.63	2.43	2.31	2.18	2.03	1.87
Lost-Time Rate ^{3*}	2.71	2.64	2.45	2.33	2.19	2.04	1.90
All Injury Rate ^{3*}	3.99	3.91	3.64	3.43	3.26	3.02	2.83

All Mine Safety and Health	1997	1998	1999	2000	2001	2002	2003
Citations and Orders Issued ^{1, 2}	116,226	115,807	115,371	120,027	126,333	105,540	109,589
Elevated Enforcement Actions	3,091	3,391	3,097	3,220	3,189	2,924	3,291
S&S Citations and Orders (%)	36%	38%	36%	36%	35%	33%	32%
Dollar Amount Assessed (Millions) ²	20.3M	25.7M	27.1M	24.5M	23.3M	21.3M	22.0M
Fatal Injury Rate ^{3*}	.0274	.0244	.0282	.0272	.0232	.0240	.0197
NFDL Rate ^{3*}	3.64	3.72	3.46	3.49	3.22	3.22	2.79
Lost-Time Rate ^{3*}	3.66	3.75	3.48	3.51	3.24	3.25	2.81
All Injury Rate ^{3*}	5.52	5.51	5.08	5.13	4.75	4.61	4.02

All Mine Safety and Health	1990	1991	1992	1993	1994	1995	1996
Citations and Orders Issued ^{1, 2}	155,958	156,723	146,573	136,731	136,601	123,044	106,871
Elevated Enforcement Actions	6,632	7,216	5,851	5,857	5,332	3,527	2,943
S&S Citations and Orders (%)	58%	55%	50%	48%	45%	42%	38%
Dollar Amount Assessed (Millions) ²	1.4M	9.4M	5.4M	15.6M	28.2M	21.6M	17.7M
Fatal Injury Rate ^{3*}	.0329	.0325	.0288	.0303	.0255	.0303	.0261
NFDL Rate ^{3*}	5.77	5.62	5.09	4.79	4.76	4.19	3.79
Lost-Time Rate ^{3*}	5.80	5.65	5.11	4.82	4.78	4.22	3.82
All Injury Rate ^{3*}	8.37	8.17	7.48	7.10	6.96	6.30	5.73

All Mine Safety and Health	1983	1984	1985	1986	1987	1988	1989
Citations and Orders Issued ^{1, 2}	107,996	131,745	134,171	132,971	153,465	161,363	160,998
Elevated Enforcement Actions	3,784	6,298	6,951	6,009	7,400	7,573	6,322
S&S Citations and Orders (%)	31%	47%	58%	61%	60%	60%	59%
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}	.0361	.0529	.0334	.0385	.0367	.0282	.0317
NFDL Rate ^{3*}	4.10	4.15	3.90	4.29	5.59	5.96	5.89
Lost-Time Rate ^{3*}	4.14	4.21	3.93	4.32	5.62	5.98	5.92
All Injury Rate ^{3*}	5.66	5.68	5.45	6.01	8.19	8.99	9.08

All Mine Safety and Health			1978	1979	1980	1981	1982
Citations and Orders Issued ^{1, 2}			N/A	N/A	N/A	N/A	N/A
Elevated Enforcement Actions			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
Dollar Amount Assessed (Millions) ²			N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}			.0515	.0521	.0475	.0502	.0479
NFDL Rate ^{3*}			5.77	6.37	6.05	5.30	5.11
Lost-Time Rate ^{3*}			5.82	6.42	6.10	5.35	5.16
All Injury Rate ^{3*}			8.85	8.79	8.09	7.16	6.78

NOTE: 1978-1982 data not available in the MSIS

Data source (for 1978-1982):

All Coal: <http://arlweb.msha.gov/ACCINJ/BOTHCL.HTM>

All MNM: <http://arlweb.msha.gov/ACCINJ/ALLMETAL.HTM>

*Values are all inclusive of operator and contractor employees.

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3-Reported injuries per 200,000 hours worked.

COAL Only (By the Numbers CY 1978-2017) - Includes Fatal and Injury Rates

Coal Mine Safety and Health	2011	2012	2013	2014	2015	2016	2017
Citations and Orders Issued ^{1, 2}	93,057	78,848	63,182	62,483	49,338	40,541	46,896
Elevated Enforcement Actions	2,793	1,686	1,182	1,206	700	535	749
S&S Citations and Orders (%)	32%	28%	26%	25%	23%	21%	22%
Dollar Amount Assessed (Millions) ²	119.9M	89.6M	65.1M	63M	37.1M	25.8M	24M
Fatal Injury Rate ^{3*}	.0148	.0159	.0176	.0149	.0131	.0115	.0202
NFDL Rate ^{3*}	2.26	2.15	2.15	2.19	2.02	2.07	2.23
Lost-Time Rate ^{3*}	2.27	2.16	2.17	2.20	2.04	2.08	2.25
All Injury Rate ^{3*}	3.43	3.21	3.15	3.15	2.93	2.91	3.16

Coal Mine Safety and Health	2004	2005	2006	2007	2008	2009	2010
Citations and Orders Issued ^{1, 2}	64,348	69,012	77,631	84,138	106,787	101,900	96,347
Elevated Enforcement Actions	1,946	1,900	2,548	2,640	2,792	2,611	2,854
S&S Citations and Orders (%)	42%	39%	39%	35%	32%	30%	32%
Dollar Amount Assessed (Millions) ²	15.5M	17.4M	29.9M	98.9M	110.3M	96.3M	110.2M
Fatal Injury Rate ^{3*}	.0273	.0205	.0399	.0293	.0237	.0148	.0384
NFDL Rate ^{3*}	3.47	3.21	3.05	2.94	2.67	2.57	2.31
Lost-Time Rate ^{3*}	3.50	3.23	3.09	2.97	2.69	2.59	2.35
All Injury Rate ^{3*}	4.93	4.61	4.47	4.21	3.90	3.71	3.47

Coal Mine Safety and Health	1997	1998	1999	2000	2001	2002	2003
Citations and Orders Issued ^{1, 2}	66,752	62,597	57,501	58,292	68,142	57,192	56,674
Elevated Enforcement Actions	1,482	1,436	1,398	1,324	1,683	1,507	1,525
S&S Citations and Orders (%)	39%	42%	42%	42%	41%	39%	39%
Dollar Amount Assessed (Millions) ²	10.9M	13.3M	13.4M	11.7M	13.7M	13.1M	13.4M
Fatal Injury Rate ^{3*}	.0262	.0261	.0340	.0393	.0402	.0280	.0312
NFDL Rate ^{3*}	5.08	5.32	4.85	4.96	4.39	4.51	3.70
Lost-Time Rate ^{3*}	5.11	5.34	4.89	5.00	4.43	4.54	3.73
All Injury Rate ^{3*}	6.97	7.15	6.44	6.65	6.04	6.03	5.07

Coal Mine Safety and Health	1990	1991	1992	1993	1994	1995	1996
Citations and Orders Issued ^{1, 2}	107,508	109,196	93,306	90,401	89,780	82,130	71,396
Elevated Enforcement Actions	5,137	5,688	4,200	4,598	4,080	2,505	2,054
S&S Citations and Orders (%)	69%	63%	60%	58%	54%	48%	42%
Dollar Amount Assessed (Millions) ²	1.2M	9.1M	4.6M	13.4M	20.4M	16.0M	12.5M
Fatal Injury Rate ^{3*}	.0425	.0423	.0399	.0382	.0354	.0398	.0340
NFDL Rate ^{3*}	7.88	7.86	7.29	6.82	6.86	6.22	5.33
Lost-Time Rate ^{3*}	7.92	7.90	7.33	6.86	6.89	6.26	5.36
All Injury Rate ^{3*}	10.18	10.18	9.47	8.95	8.95	8.22	7.24

Coal Mine Safety and Health	1983	1984	1985	1986	1987	1988	1989
Citations and Orders Issued ^{1, 2}	92,704	110,901	108,916	103,156	115,045	113,902	110,245
Elevated Enforcement Actions	3,487	5,766	6,325	5,414	6,484	6,340	5,141
S&S Citations and Orders (%)	33%	50%	62%	68%	68%	71%	71%
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}	.0400	.0664	.0379	.0529	.0400	.0349	.0450
NFDL Rate ^{3*}	5.46	5.45	5.06	5.60	7.84	8.20	7.95
Lost-Time Rate ^{3*}	5.50	5.51	5.09	5.65	7.88	8.24	7.99
All Injury Rate ^{3*}	6.95	6.87	6.50	7.29	10.53	10.94	10.65

Coal Mine Safety and Health			1978	1979	1980	1981	1982
Citations and Orders Issued ^{1, 2}			N/A	N/A	N/A	N/A	N/A
Elevated Enforcement Actions			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
Dollar Amount Assessed (Millions) ²			N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}			0.0527	0.0627	0.0587	0.0725	0.0582
NFDL Rate ^{3*}			7.35	8.29	8.27	7.35	6.79
Lost-Time Rate ^{3*}			7.41	8.35	8.32	7.43	6.85
All Injury Rate ^{3*}			10.05	10.31	10.03	8.92	8.35

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3-Reported injuries per 200,000 hours worked.

MNM Only (By the Numbers CY 1978-2017) - Includes Fatal and Injury Rates

MNM Mine Safety and Health	2011	2012	2013	2014	2015	2016	2017
Citations and Orders Issued ^{1, 2}	63,280	60,073	54,953	58,629	58,395	56,534	58,255
Elevated Enforcement Actions	2,359	2,199	1,827	2,222	1,940	1,705	1,878
S&S Citations and Orders (%)	26%	25%	24%	24%	25%	23%	23%
Dollar Amount Assessed (Millions) ²	41.2M	33.6M	29.5M	33.8M	28.1M	26.1M	25.4M
Fatal Injury Rate ^{3*}	.0083	.0079	.0108	.0147	.0084	.0088	.0067
NFDL Rate ^{3*}	1.48	1.46	1.44	1.45	1.36	1.30	1.21
Lost-Time Rate ^{3*}	1.49	1.47	1.45	1.46	1.37	1.31	1.22
All Injury Rate ^{3*}	2.28	2.20	2.14	2.11	2.03	1.94	1.76

MNM Mine Safety and Health	2004	2005	2006	2007	2008	2009	2010
Citations and Orders Issued ^{1, 2}	56,236	58,742	62,428	59,930	66,727	71,153	73,710
Elevated Enforcement Actions	2,168	2,194	2,332	2,112	2,033	2,631	3,291
S&S Citations and Orders (%)	24%	23%	23%	22%	21%	29%	32%
Dollar Amount Assessed (Millions) ²	9.3M	10.7M	12.9M	30.5M	31.7M	40.4M	52.1M
Fatal Injury Rate ^{3*}	.0137	.0170	.0121	.0149	.0107	.0098	.0134
NFDL Rate ^{3*}	2.28	2.31	2.08	1.98	1.89	1.65	1.57
Lost-Time Rate ^{3*}	2.30	2.32	2.09	1.99	1.90	1.66	1.58
All Injury Rate ^{3*}	3.49	3.53	3.18	3.02	2.88	2.54	2.38

MNM Mine Safety and Health	1997	1998	1999	2000	2001	2002	2003
Citations and Orders Issued ^{1, 2}	49,474	53,210	57,870	61,735	58,191	48,348	52,915
Elevated Enforcement Actions	1,609	1,955	1,699	1,896	1,506	1,417	1,766
S&S Citations and Orders (%)	32%	33%	31%	31%	28%	26%	24%
Dollar Amount Assessed (Millions) ²	9.4M	12.4M	13.7M	12.9M	9.6M	8.3M	8.7M
Fatal Injury Rate ^{3*}	.0281	.0235	.0254	.0218	.0146	.0220	.0138
NFDL Rate ^{3*}	2.88	2.90	2.79	2.83	2.62	2.55	2.33
Lost-Time Rate ^{3*}	2.90	2.93	2.82	2.85	2.64	2.57	2.34
All Injury Rate ^{3*}	4.75	4.67	4.44	4.45	4.10	3.86	3.49

MNM Mine Safety and Health	1990	1991	1992	1993	1994	1995	1996
Citations and Orders Issued ^{1, 2}	48,450	47,527	53,267	46,330	46,821	40,914	35,475
Elevated Enforcement Actions	1,495	1,528	1,651	1,259	1,252	1,022	889
S&S Citations and Orders (%)	35%	36%	32%	30%	29%	28%	29%
Dollar Amount Assessed (Millions) ²	136K	350K	780K	2.2M	7.8M	5.5M	5.1M
Fatal Injury Rate ^{3*}	.0261	.0256	.0213	.0255	.0194	.0250	.0218
NFDL Rate ^{3*}	4.24	4.06	3.58	3.54	3.46	3.07	2.97
Lost-Time Rate ^{3*}	4.27	4.08	3.60	3.56	3.48	3.09	2.99
All Injury Rate ^{3*}	7.05	6.76	6.13	5.96	5.73	5.24	4.92

MNM Mine Safety and Health	1983	1984	1985	1986	1987	1988	1989
Citations and Orders Issued ^{1, 2}	15,292	20,844	25,255	29,815	38,420	47,461	50,753
Elevated Enforcement Actions	297	532	626	595	916	1,233	1,181
S&S Citations and Orders (%)	20%	30%	37%	39%	36%	36%	34%
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}	.0326	.0401	.0293	.0257	.0340	.0234	.0223
NFDL Rate ^{3*}	2.85	2.93	2.83	3.13	3.78	4.33	4.44
Lost-Time Rate ^{3*}	2.88	2.97	2.86	3.15	3.82	4.35	4.47
All Injury Rate ^{3*}	4.48	4.56	4.48	4.89	6.31	7.57	7.98

MNM Mine Safety and Health			1978	1979	1980	1981	1982
Citations and Orders Issued ^{1, 2}			N/A	N/A	N/A	N/A	N/A
Elevated Enforcement Actions			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
Dollar Amount Assessed (Millions) ²			N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}			0.0505	0.0435	0.0381	0.0321	0.0336
NFDL Rate ^{3*}			4.58	4.81	4.19	3.65	2.80
Lost-Time Rate ^{3*}			4.63	4.85	4.23	3.68	2.83
All Injury Rate ^{3*}			7.95	7.57	6.46	5.75	4.62

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