

MSHA (By the Numbers FY 1978-2016) - Includes Fatal and Injury Rates

All Mine Safety and Health	2010	2011	2012	2013	2014	2015	2016
Citations and Orders Issued ^{1,2}	172,088	157,627	144,934	121,979	119,839	112,342	96,908
Elevated Enforcement Actions	6,037	5,384	4,295	3,098	3,399	3,054	2,392
S&S Citations and Orders (%)	32%	29%	27%	25%	25%	24%	23%
Dollar Amount Assessed (Millions) ²	159.7	149.6	143.6	95.9	99.0	71.6	47.8
Fatal Injury Rate ^{3*}	.0219	.0112	.0133	.0106	.0154	.0126	.0094
NFDL Rate ^{3*}	1.91	1.80	1.77	1.67	1.69	1.63	1.45
Lost-Time Rate ^{3*}	1.93	1.81	1.79	1.68	1.71	1.64	1.46
All Injury Rate ^{3*}	2.86	2.77	2.65	2.48	2.46	2.39	2.14

All Mine Safety and Health	2003	2004	2005	2006	2007	2008	2009
Citations and Orders Issued ^{1,2}	104,622	119,716	124,756	139,758	136,865	171,842	173,725
Elevated Enforcement Actions	2,963	4,094	4,102	4,839	4,598	4,924	4,918
S&S Citations and Orders (%)	31%	33%	32%	32%	30%	27%	28%
Dollar Amount Assessed (Millions) ²	20.9	24.6	26.6	39.1	98.8	154.3	136.9
Fatal Injury Rate ^{3*}	.0229	.0169	.0182	.0225	.0200	.0152	.0140
NFDL Rate ^{3*}	2.92	2.69	2.64	2.47	2.36	2.18	2.06
Lost-Time Rate ^{3*}	2.94	2.71	2.66	2.49	2.38	2.20	2.07
All Injury Rate ^{3*}	4.17	3.98	3.93	3.72	3.50	3.27	3.06

All Mine Safety and Health	1996	1997	1998	1999	2000	2001	2002
Citations and Orders Issued ^{1,2}	108,489	113,883	119,006	113,611	118,966	124,250	113,285
Elevated Enforcement Actions	3,008	2,947	3,537	3,116	3,120	3,202	3,089
S&S Citations and Orders (%)	37%	36%	37%	36%	36%	34%	32%
Dollar Amount Assessed (Millions) ²	17.8	19.3	25.7	26.6	25.5	22.5	22.7
Fatal Injury Rate ^{3*}	.0289	.0302	.0244	.0255	.0279	.0229	.0242
NFDL Rate ^{3*}	3.86	3.66	3.75	3.50	3.46	3.29	3.20
Lost-Time Rate ^{3*}	3.89	3.69	3.78	3.53	3.49	3.31	3.23
All Injury Rate ^{3*}	5.83	5.57	5.57	5.17	5.07	4.86	4.63

All Mine Safety and Health	1989	1990	1991	1992	1993	1994	1995
Citations and Orders Issued ^{1,2}	158,543	159,222	157,882	148,385	138,127	136,841	127,637
Elevated Enforcement Actions	6,528	6,430	7,312	6,227	5,695	5,680	3,854
S&S Citations and Orders (%)	58%	57%	54%	50%	47%	45%	41%
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	22.9
Fatal Injury Rate ^{3*}	.0326	.0323	.0292	.0295	.0301	.0296	.0262
NFDL Rate ^{3*}	5.91	5.81	5.66	5.21	4.87	4.73	4.33
Lost-Time Rate ^{3*}	5.95	5.84	5.69	5.24	4.90	4.76	4.36
All Injury Rate ^{3*}	9.11	8.52	8.20	7.66	7.17	6.97	6.46

All Mine Safety and Health			1984	1985	1986	1987	1988
Citations and Orders Issued ^{1,2}			129,539	132,908	133,701	146,622	162,293
Elevated Enforcement Actions			5,732	6,849	6,390	6,775	7,766
S&S Citations and Orders (%)			43%	55%	60%	58%	59%
Dollar Amount Assessed (Millions) ²			N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}			.0422	.0462	.0386	.0358	.0288
NFDL Rate ^{3*}			4.17	3.93	4.21	5.19	5.94
Lost-Time Rate ^{3*}			4.22	3.97	4.24	5.22	5.96
All Injury Rate ^{3*}			5.72	5.47	5.86	7.56	8.93

All Mine Safety and Health		1978	1979	1980	1981	1982	1983
Citations and Orders Issued ^{1,2}		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
S&S Citations and Orders (%)		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
Fatal Injury Rate ^{3*}		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
Lost-Time Rate ^{3*}		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

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 1983-2016 are pulled by MSIS

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3-Reported injuries per 200,000 hours worked.

COAL Only (By the Numbers FY 1978-2016) - Includes Fatal and Injury Rates

Coal Mine Safety and Health	2010	2011	2012	2013	2014	2015	2016
Citations and Orders Issued ^{1,2}	97,573	93,033	83,680	65,388	62,225	53,280	40,390
Elevated Enforcement Actions	2,794	2,776	2,087	1,200	1,252	873	575
S&S Citations and Orders (%)	31%	31%	28%	26%	25%	24%	22%
Dollar Amount Assessed (Millions) ²	107.3	108.4	107.5	67.4	64.3	43.5	23.7
Fatal Injury Rate ^{3*}	.0412	.0120	.0183	.0156	.0166	.0154	.0125
NFDL Rate ^{3*}	2.34	2.27	2.20	2.10	2.17	2.12	1.91
Lost-Time Rate ^{3*}	2.38	2.28	2.22	2.11	2.18	2.13	1.93
All Injury Rate ^{3*}	3.49	3.46	3.29	3.11	3.12	3.05	2.76

Coal Mine Safety and Health	2003	2004	2005	2006	2007	2008	2009
Citations and Orders Issued ^{1,2}	55,277	62,560	67,633	76,984	78,330	104,134	105,439
Elevated Enforcement Actions	1,425	1,864	1,957	2,490	2,471	2,850	2,619
S&S Citations and Orders (%)	38%	41%	39%	39%	36%	32%	30%
Dollar Amount Assessed (Millions) ²	12.8	15.3	16.2	26.7	73.2	120.6	99.6
Fatal Injury Rate ^{3*}	.0332	.0240	.0209	.0384	.0300	.0245	.0159
NFDL Rate ^{3*}	4.00	3.49	3.25	3.08	3.02	2.71	2.58
Lost-Time Rate ^{3*}	4.03	3.51	3.27	3.12	3.05	2.74	2.60
All Injury Rate ^{3*}	5.39	4.95	4.62	4.55	4.29	3.96	3.75

Coal Mine Safety and Health	1996	1997	1998	1999	2000	2001	2002
Citations and Orders Issued ^{1,2}	72,980	68,279	63,481	58,159	56,782	66,499	61,706
Elevated Enforcement Actions	2,090	1,626	1,438	1,429	1,231	1,672	1,573
S&S Citations and Orders (%)	42%	39%	41%	41%	41%	41%	38%
Dollar Amount Assessed (Millions) ²	12.6	11.2	12.9	14.1	11.5	12.5	14.0
Fatal Injury Rate ^{3*}	.0340	.0331	.0250	.0352	.0348	.0405	.0321
NFDL Rate ^{3*}	5.56	5.12	5.30	4.92	4.98	4.47	4.44
Lost-Time Rate ^{3*}	5.60	5.15	5.32	4.95	5.02	4.51	4.47
All Injury Rate ^{3*}	7.49	7.03	7.15	6.57	6.60	6.14	6.00

Coal Mine Safety and Health	1989	1990	1991	1992	1993	1994	1995
Citations and Orders Issued ^{1,2}	108,093	109,873	111,230	95,240	91,711	89,515	84,821
Elevated Enforcement Actions	5,303	5,018	5,766	4,593	4,405	4,397	2,751
S&S Citations and Orders (%)	69%	68%	62%	60%	56%	54%	49%
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	17.0
Fatal Injury Rate ^{3*}	.0459	.0436	.0381	.0373	.0395	.0411	.0356
NFDL Rate ^{3*}	7.96	7.94	7.85	7.41	6.99	6.78	6.32
Lost-Time Rate ^{3*}	8.01	7.98	7.89	7.44	7.03	6.82	6.35
All Injury Rate ^{3*}	10.67	10.31	10.14	9.63	9.13	8.90	8.33

Coal Mine Safety and Health			1984	1985	1986	1987	1988
Citations and Orders Issued ^{1,2}			109,664	108,873	104,542	110,220	116,646
Elevated Enforcement Actions			5,281	6,213	5,781	5,955	6,641
S&S Citations and Orders (%)			46%	59%	66%	65%	69%
Dollar Amount Assessed (Millions) ²			N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}			.0472	.0577	.0519	.0386	.0358
NFDL Rate ^{3*}			5.47	5.12	5.46	7.19	8.22
Lost-Time Rate ^{3*}			5.52	5.18	5.52	7.23	8.26
All Injury Rate ^{3*}			6.89	6.58	7.05	9.61	11.05

Coal Mine Safety and Health		1978	1979	1980	1981	1982	1983
Citations and Orders Issued ^{1,2}		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
S&S Citations and Orders (%)		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
Fatal Injury Rate ^{3*}		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
Lost-Time Rate ^{3*}		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

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3-Reported injuries per 200,000 hours worked.

MNM Only (By the Numbers FY 1978-2016) - Includes Fatal and Injury Rates

MNM Mine Safety and Health	2010	2011	2012	2013	2014	2015	2016
Citations and Orders Issued ^{1,2}	74,515	64,594	61,254	56,591	57,614	59,062	56,518
Elevated Enforcement Actions	3,243	2,608	2,208	1,898	2,147	2,181	1,817
S&S Citations and Orders (%)	32%	27%	25%	24%	24%	25%	24%
Dollar Amount Assessed (Millions) ²	52.4	41.2	36.1	28.5	34.7	28.1	24.1
Fatal Injury Rate ^{3*}	.0085	.0106	.0100	.0078	.0147	.0113	.0082
NFDL Rate ^{3*}	1.61	1.47	1.49	1.42	1.44	1.39	1.28
Lost-Time Rate ^{3*}	1.62	1.48	1.50	1.43	1.46	1.41	1.29
All Injury Rate ^{3*}	2.43	2.29	2.23	2.13	2.11	2.07	1.91

MNM Mine Safety and Health	2003	2004	2005	2006	2007	2008	2009
Citations and Orders Issued ^{1,2}	49,345	57,156	57,123	62,774	58,535	67,708	68,286
Elevated Enforcement Actions	1,538	2,230	2,145	2,349	2,127	2,074	2,299
S&S Citations and Orders (%)	24%	24%	23%	23%	22%	21%	26%
Dollar Amount Assessed (Millions) ²	8.1	9.4	10.4	12.4	25.6	33.7	37.3
Fatal Injury Rate ^{3*}	.0176	.0133	.0167	.0137	.0146	.0100	.0127
NFDL Rate ^{3*}	2.37	2.28	2.31	2.13	2.01	1.89	1.69
Lost-Time Rate ^{3*}	2.39	2.30	2.33	2.15	2.03	1.90	1.70
All Injury Rate ^{3*}	3.54	3.47	3.55	3.26	3.07	2.89	2.58

MNM Mine Safety and Health	1996	1997	1998	1999	2000	2001	2002
Citations and Orders Issued ^{1,2}	35,509	45,604	55,525	55,452	62,184	57,751	51,579
Elevated Enforcement Actions	918	1,321	2,099	1,687	1,889	1,530	1,516
S&S Citations and Orders (%)	27%	31%	32%	30%	30%	27%	25%
Dollar Amount Assessed (Millions) ²	5.2	8.0	12.8	12.5	14.0	10.0	8.7
Fatal Injury Rate ^{3*}	.0261	.0286	.0240	.0208	.0248	.0144	.0201
NFDL Rate ^{3*}	2.94	2.89	2.96	2.82	2.77	2.71	2.55
Lost-Time Rate ^{3*}	2.97	2.92	2.98	2.84	2.80	2.72	2.57
All Injury Rate ^{3*}	4.94	4.79	4.75	4.48	4.38	4.23	3.91

MNM Mine Safety and Health	1989	1990	1991	1992	1993	1994	1995
Citations and Orders Issued ^{1,2}	50,450	49,349	46,652	53,145	46,416	47,326	42,816
Elevated Enforcement Actions	1,225	1,412	1,546	1,634	1,290	1,283	1,103
S&S Citations and Orders (%)	34%	33%	35%	32%	30%	27%	27%
Dollar Amount Assessed (Millions) ²	N/A	N/A	N/A	N/A	N/A	N/A	5.9
Fatal Injury Rate ^{3*}	.0233	.0241	.0230	.0242	.0241	.0225	.0208
NFDL Rate ^{3*}	4.48	4.27	4.11	3.70	3.52	3.46	3.20
Lost-Time Rate ^{3*}	4.50	4.29	4.14	3.73	3.54	3.48	3.22
All Injury Rate ^{3*}	8.01	7.23	6.83	6.30	5.93	5.78	5.39

MNM Mine Safety and Health			1984	1985	1986	1987	1988
Citations and Orders Issued ^{1,2}			19,875	24,035	29,159	36,402	45,647
Elevated Enforcement Actions			451	636	609	820	1,125
S&S Citations and Orders (%)			26%	35%	38%	35%	35%
Dollar Amount Assessed (Millions) ²			N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{3*}			.0374	.0357	.0266	.0336	.0237
NFDL Rate ^{3*}			2.92	2.84	3.08	3.56	4.24
Lost-Time Rate ^{3*}			2.96	2.88	3.11	3.59	4.26
All Injury Rate ^{3*}			4.59	4.46	4.79	5.89	7.36

MNM Mine Safety and Health		1978	1979	1980	1981	1982	1983
Citations and Orders Issued ^{1,2}		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
S&S Citations and Orders (%)		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
Fatal Injury Rate ^{3*}		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
Lost-Time Rate ^{3*}		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

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