

MSHA AT A GLANCE (FY 1978-2016)

All Mine Safety and Health	2010	2011	2012	2013	2014	2015	2016
Number of Mines	14,493	14,370	14,273	14,006	13,768	13,510	13,185
Number of Miners*	358,826	380,022	393,966	378,652	372,716	359,565	326,023
Fatalities*	65	36	44	34	48	38	25
Fatal Injury Rate ^{1*}	.0219	.0112	.0133	.0106	.0154	.0126	.0094
All Injury Rate ^{1*}	2.86	2.77	2.65	2.48	2.46	2.39	2.14
Total Mining Area Inspection Hours/Mine ²	59	59	59	56	56	54	52
Citations and Orders Issued ^{3, 4}	172,088	157,627	144,934	121,979	119,839	112,342	96,908
S&S Citations and Orders (%)	32%	29%	27%	25%	25%	24%	23%
Dollar Amount Assessed (Millions) ⁴	159.7	149.6	143.6	96.0	99.0	71.6	47.8

All Mine Safety and Health	2003	2004	2005	2006	2007	2008	2009
Number of Mines	14,552	14,556	14,693	14,974	14,934	15,057	14,832
Number of Miners*	323,375	331,199	346,596	363,930	379,404	393,649	371,658
Fatalities*	65	50	57	74	67	52	43
Fatal Injury Rate ^{1*}	.0229	.0169	.0182	.0225	.0200	.0152	.0140
All Injury Rate ^{1*}	4.17	3.98	3.93	3.72	3.50	3.27	3.06
Total Mining Area Inspection Hours/Mine ²	47	49	45	41	40	51	55
Citations and Orders Issued ^{3, 4}	104,622	119,716	124,756	139,758	136,865	171,842	173,725
S&S Citations and Orders (%)	31%	33%	32%	32%	30%	27%	28%
Dollar Amount Assessed (Millions) ⁴	20.9	24.6	26.6	39.1	98.8	154.3	136.9

All Mine Safety and Health	1996	1997	1998	1999	2000	2001	2002
Number of Mines	13,714	13,749	13,946	14,189	14,527	14,685	14,690
Number of Miners*	359,270	363,809	362,420	357,016	353,422	350,575	338,791
Fatalities*	95	100	80	82	88	71	72
Fatal Injury Rate ^{1*}	.0289	.0302	.0244	.0255	.0279	.0229	.0242
All Injury Rate ^{1*}	5.83	5.57	5.57	5.17	5.07	4.86	4.63
Total Mining Area Inspection Hours/Mine ²	54	51	48	50	50	49	47
Citations and Orders Issued ^{3, 4}	108,489	113,883	119,006	113,611	118,966	124,250	113,285
S&S Citations and Orders (%)	37%	36%	37%	36%	36%	34%	32%
Dollar Amount Assessed (Millions) ⁴	17.8	19.3	25.7	26.6	25.5	22.5	22.7

All Mine Safety and Health	1989	1990	1991	1992	1993	1994	1995
Number of Mines	16,348	16,258	15,891	15,181	14,797	14,442	14,059
Number of Miners*	400,537	406,198	395,900	383,617	368,323	369,736	365,375
Fatalities*	119	120	104	101	98	98	87
Fatal Injury Rate ^{1*}	.0326	.0323	.0292	.0295	.0301	.0296	.0262
All Injury Rate ^{1*}	9.11	8.52	8.20	7.66	7.17	6.97	6.46
Total Mining Area Inspection Hours/Mine ²	53	53	52	55	54	55	54
Citations and Orders Issued ^{3, 4}	158,543	159,222	157,882	148,385	138,127	136,841	127,637
S&S Citations and Orders (%)	58%	57%	54%	50%	47%	45%	41%
Dollar Amount Assessed (Millions) ⁴	N/A	N/A	N/A	N/A	N/A	N/A	22.9

All Mine Safety and Health			1984	1985	1986	1987	1988
Number of Mines			17,187	17,277	16,889	16,675	16,699
Number of Miners*			432,928	422,542	403,445	390,708	395,436
Fatalities*			164	173	140	126	104
Fatal Injury Rate ^{1*}			.0422	.0462	.0386	.0358	.0288
All Injury Rate ^{1*}			5.72	5.47	5.86	7.56	8.93
Total Mining Area Inspection Hours/Mine ²			56	56	55	55	55
Citations and Orders Issued ^{3, 4}			129,539	132,908	133,701	146,622	162,293
S&S Citations and Orders (%)			43%	55%	60%	58%	59%
Dollar Amount Assessed (Millions) ⁴			N/A	N/A	N/A	N/A	N/A

All Mine Safety and Health		1978	1979	1980	1981	1982	1983
Number of Mines		N/A	N/A	N/A	N/A	N/A	N/A
Number of Miners*		N/A	N/A	N/A	N/A	N/A	N/A
Fatalities*		N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{1*}		N/A	N/A	N/A	N/A	N/A	N/A
All Injury Rate ^{1*}		N/A	N/A	N/A	N/A	N/A	N/A
Total Mining Area Inspection Hours/Mine ²		N/A	N/A	N/A	N/A	N/A	N/A
Citations and Orders Issued ^{3, 4}		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) ⁴		N/A	N/A	N/A	N/A	N/A	N/A

NOTE:

Data for Fiscal Years 1978-1983 data not available in MSIS
 Assessment Data for Fiscal Years 1978-1994 not available in MSIS

*Values are all inclusive of operator and contractor employees.

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.

COAL Only (At A Glance Data FY 1978-2016)

Coal Mine Safety and Health	2010	2011	2012	2013	2014	2015	2016
Number of Coal Mines	1,974	1,996	1,933	1,750	1,652	1,515	1,325
Number of Miners*	133,793	143,553	143,646	126,388	118,294	108,679	85,397
Fatalities*	50	16	24	18	18	15	9
Fatal Injury Rate ^{1*}	.0412	.0120	.0183	.0156	.0166	.0154	.0125
All Injury Rate ^{1*}	3.49	3.46	3.29	3.11	3.12	3.05	2.76
States with Coal Mining	26	26	26	26	26	26	26
Coal Production (Millions of Tons)	1,070	1,089	1,051	994	986	943	736
Total Mining Area Inspection Hours/Mine ²	257	258	250	249	246	247	244
FY Inspection Completion Rate (%)	100	100	100	100	100	100	100
Citations and Orders Issued ^{3,4}	97,573	93,033	83,680	65,388	62,225	53,280	40,390
S&S Citations and Orders (%)	31%	31%	28%	26%	25%	24%	22%
Dollar Amount Assessed (Millions) ⁴	107.3	108.4	107.5	67.4	64.3	43.5	23.7

Coal Mine Safety and Health	2003	2004	2005	2006	2007	2008	2009
Number of Coal Mines	1,996	2,009	2,053	2,108	2,065	2,100	2,103
Number of Miners*	106,971	108,057	115,021	122,906	125,589	130,628	138,664
Fatalities*	32	24	23	45	35	30	20
Fatal Injury Rate ^{1*}	.0332	.0240	.0209	.0384	.0300	.0245	.0159
All Injury Rate ^{1*}	5.39	4.95	4.62	4.55	4.29	3.96	3.75
States with Coal Mining	26	26	26	26	26	26	26
Coal Production (Millions of Tons)	1,074	1,101	1,132	1,153	1,149	1,162	1,114
Total Mining Area Inspection Hours/Mine ²	170	172	163	162	154	219	236
FY Inspection Completion Rate (%)	N/A	N/A	N/A	N/A	N/A	N/A	100
Citations and Orders Issued ^{3,4}	55,277	62,560	67,633	76,984	78,330	104,134	105,439
S&S Citations and Orders (%)	38%	41%	39%	39%	36%	32%	30%
Dollar Amount Assessed (Millions) ⁴	12.8	15.3	16.2	26.7	73.2	120.6	99.6

Coal Mine Safety and Health	1996	1997	1998	1999	2000	2001	2002
Number of Coal Mines	2,782	2,618	2,542	2,366	2,190	2,148	2,105
Number of Miners*	127,350	127,769	124,212	117,548	110,186	112,683	114,745
Fatalities*	39	38	28	37	34	41	33
Fatal Injury Rate ^{1*}	.0340	.0331	.0250	.0352	.0348	.0405	.0321
All Injury Rate ^{1*}	7.49	7.03	7.15	6.57	6.60	6.14	6.00
States with Coal Mining	26	26	26	26	26	26	26
Coal Production (Millions of Tons)	1,054	1,086	1,109	1,106	1,085	1,112	1,104
Total Mining Area Inspection Hours/Mine ²	155	160	153	161	167	171	175
FY Inspection Completion Rate (%)	N/A						
Citations and Orders Issued ^{3,4}	72,980	68,279	63,481	58,159	56,782	66,499	61,706
S&S Citations and Orders (%)	42%	39%	41%	41%	41%	41%	38%
Dollar Amount Assessed (Millions) ⁴	12.6	11.2	12.9	14.1	11.5	12.5	14.0

Coal Mine Safety and Health	1989	1990	1991	1992	1993	1994	1995
Number of Coal Mines	4,493	4,344	4,124	3,785	3,529	3,309	3,051
Number of Miners*	165,953	168,958	162,142	156,314	146,038	143,795	135,751
Fatalities*	69	68	56	52	50	52	43
Fatal Injury Rate ^{1*}	.0459	.0436	.0381	.0373	.0395	.0411	.0356
All Injury Rate ^{1*}	10.67	10.31	10.14	9.63	9.13	8.90	8.33
States with Coal Mining	26	26	29	26	26	26	26
Coal Production (Millions of Tons)	959	1,017	989	988	946	1,011	1,029
Total Mining Area Inspection Hours/Mine ²	128	128	130	141	145	155	151
FY Inspection Completion Rate (%)	N/A						
Citations and Orders Issued ^{3,4}	108,093	109,873	111,230	95,240	91,711	89,515	84,821
S&S Citations and Orders (%)	69%	68%	62%	60%	56%	54%	49%
Dollar Amount Assessed (Millions) ⁴	N/A	N/A	N/A	N/A	N/A	N/A	17

Coal Mine Safety and Health			1984	1985	1986	1987	1988
Number of Coal Mines			5,612	5,352	5,212	4,993	4,808
Number of Miners*			210,856	201,462	190,777	175,947	169,130
Fatalities*			90	103	89	61	55
Fatal Injury Rate ^{1*}			.0472	.0577	.0519	.0386	.0358
All Injury Rate ^{1*}			6.89	6.58	7.05	9.61	11.05
States with Coal Mining			26	26	26	26	26
Coal Production (Millions of Tons)			876	843	866	878	936
Total Mining Area Inspection Hours/Mine ²			114	120	126	129	129
FY Inspection Completion Rate (%)			N/A	N/A	N/A	N/A	N/A
Citations and Orders Issued ^{3,4}			109,664	108,873	104,542	110,220	116,646
S&S Citations and Orders (%)			46%	59%	66%	65%	69%
Dollar Amount Assessed (Millions) ⁴			N/A	N/A	N/A	N/A	N/A

Coal Mine Safety and Health		1978	1979	1980	1981	1982	1983
Number of Coal Mines		N/A	N/A	N/A	N/A	N/A	N/A
Number of Miners*		N/A	N/A	N/A	N/A	N/A	N/A
Fatalities*		N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{1*}		N/A	N/A	N/A	N/A	N/A	N/A
All Injury Rate ^{1*}		N/A	N/A	N/A	N/A	N/A	N/A
States with Coal Mining		N/A	N/A	N/A	N/A	N/A	N/A
Coal Production (Millions of Tons)		N/A	N/A	N/A	N/A	N/A	N/A
Total Mining Area Inspection Hours/Mine ²		N/A	N/A	N/A	N/A	N/A	N/A
FY Inspection Completion Rate (%)		N/A	N/A	N/A	N/A	N/A	N/A
Citations and Orders Issued ^{3,4}		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) ⁴		N/A	N/A	N/A	N/A	N/A	N/A

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*Values are all inclusive of operator and contractor employees.

1-Reported injuries per 200,000 hours worked.

2-Total Mining Area Time includes: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.

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METAL/NONMETAL Only (At A Glance Data FY 1978-2016)

Metal and Nonmetal Mine Safety and Health	2010	2011	2012	2013	2014	2015	2016
Number of Metal/Nonmetal Mines	12,519	12,374	12,340	12,256	12,116	11,995	11,860
Number of Miners*	225,033	236,469	250,320	252,264	254,422	250,886	240,626
Fatalities*	15	20	20	16	30	23	16
Fatal Injury Rate ^{1*}	.0085	.0106	.0100	.0078	.0147	.0113	.0082
All Injury Rate ^{1*}	2.43	2.29	2.23	2.13	2.11	2.07	1.91
States with M/NM Mining	50	50	50	50	50	50	50
Total Mining Area Inspection Hours/Mine ²	22	21	22	21	22	22	21
FY Inspection Completion Rate (%)	100	100	100	100	100	100	100
Citations and Orders Issued ^{3, 4}	74,515	64,594	61,254	56,591	57,614	59,062	56,518
S&S Citations and Orders (%)	32%	27%	25%	24%	24%	24%	24%
Dollar Amount Assessed (Millions) ⁴	52.4	41.2	36.1	28.6	34.7	28.1	24.1

Metal and Nonmetal Mine Safety and Health	2003	2004	2005	2006	2007	2008	2009
Number of Metal/Nonmetal Mines	12,556	12,547	12,640	12,866	12,869	12,957	12,729
Number of Miners*	216,404	223,142	231,575	241,024	253,815	263,021	232,994
Fatalities*	33	26	34	29	32	22	23
Fatal Injury Rate ^{1*}	.0176	.0133	.0167	.0137	.0146	.0100	.0127
All Injury Rate ^{1*}	3.54	3.47	3.55	3.26	3.07	2.89	2.58
States with M/NM Mining	50	50	50	50	50	50	50
Total Mining Area Inspection Hours/Mine ²	23	25	21	18	17	20	21
FY Inspection Completion Rate (%)	N/A	N/A	N/A	N/A	N/A	N/A	100
Citations and Orders Issued ^{3, 4}	49,345	57,156	57,123	62,774	58,535	67,708	68,286
S&S Citations and Orders (%)	24%	24%	23%	23%	22%	21%	26%
Dollar Amount Assessed (Millions) ⁴	8.1	9.4	10.4	12.4	25.6	33.7	37.3

Metal and Nonmetal Mine Safety and Health	1996	1997	1998	1999	2000	2001	2002
Number of Metal/Nonmetal Mines	10,932	11,131	11,404	11,823	12,337	12,537	12,585
Number of Miners*	231,920	236,040	238,208	239,468	243,236	237,892	224,046
Fatalities*	56	62	52	45	54	30	39
Fatal Injury Rate ^{1*}	.0261	.0286	.0240	.0208	.0248	.0144	.0201
All Injury Rate ^{1*}	4.94	4.79	4.75	4.48	4.38	4.23	3.91
States with M/NM Mining	50	50	50	50	50	50	50
Total Mining Area Inspection Hours/Mine ²	23	20	22	24	24	23	21
FY Inspection Completion Rate (%)	N/A						
Citations and Orders Issued ^{3, 4}	35,509	45,604	55,525	55,452	62,184	57,751	51,579
S&S Citations and Orders (%)	27%	31%	32%	30%	30%	27%	25%
Dollar Amount Assessed (Millions) ⁴	5.2	8.0	12.8	12.5	14.0	10.0	8.7

Metal and Nonmetal Mine Safety and Health	1989	1990	1991	1992	1993	1994	1995
Number of Metal/Nonmetal Mines	11,855	11,914	11,767	11,396	11,268	11,133	11,008
Number of Miners*	234,584	237,240	233,758	227,303	222,285	225,941	229,624
Fatalities*	50	52	48	49	48	46	44
Fatal Injury Rate ^{1*}	.0233	.0241	.0230	.0242	.0241	.0225	.0208
All Injury Rate ^{1*}	8.01	7.23	6.83	6.3	5.93	5.78	5.39
States with M/NM Mining	50	50	50	50	50	50	50
Total Mining Area Inspection Hours/Mine ²	22	23	23	24	23	23	23
FY Inspection Completion Rate (%)	N/A						
Citations and Orders Issued ^{3, 4}	50,450	49,349	46,652	53,145	46,416	47,326	42,816
S&S Citations and Orders (%)	34%	33%	35%	32%	30%	27%	27%
Dollar Amount Assessed (Millions) ⁴	N/A	N/A	N/A	N/A	N/A	N/A	5.9

Metal and Nonmetal Mine Safety and Health			1984	1985	1986	1987	1988
Number of Metal/Nonmetal Mines			11,575	11,925	11,677	11,682	11,891
Number of Miners*			222,072	221,080	212,668	214,761	226,306
Fatalities*			74	70	51	65	49
Fatal Injury Rate ^{1*}			.0374	.0357	.0266	.0336	.0237
All Injury Rate ^{1*}			4.59	4.46	4.79	5.89	7.36
States with M/NM Mining			50	50	50	50	50
Total Mining Area Inspection Hours/Mine ²			19	19	20	21	22
FY Inspection Completion Rate (%)			N/A	N/A	N/A	N/A	N/A
Citations and Orders Issued ^{3, 4}			19,875	24,035	29,159	36,402	45,647
S&S Citations and Orders (%)			26%	35%	38%	35%	35%
Dollar Amount Assessed (Millions) ⁴			N/A	N/A	N/A	N/A	N/A

Metal and Nonmetal Mine Safety and Health		1978	1979	1980	1981	1982	1983
Number of Metal/Nonmetal Mines		N/A	N/A	N/A	N/A	N/A	N/A
Number of Miners*		N/A	N/A	N/A	N/A	N/A	N/A
Fatalities*		N/A	N/A	N/A	N/A	N/A	N/A
Fatal Injury Rate ^{1*}		N/A	N/A	N/A	N/A	N/A	N/A
All Injury Rate ^{1*}		N/A	N/A	N/A	N/A	N/A	N/A
States with M/NM Mining		N/A	N/A	N/A	N/A	N/A	N/A
Total Mining Area Inspection Hours/Mine ²		N/A	N/A	N/A	N/A	N/A	N/A
FY Inspection Completion Rate (%)		N/A	N/A	N/A	N/A	N/A	N/A
Citations and Orders Issued ^{3, 4}		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) ⁴		N/A	N/A	N/A	N/A	N/A	N/A

NOTE:

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Assessment Data for Fiscal Years 1978-1994 not available in MSIS

*Values are all inclusive of operator and contractor employees.

1-Reported injuries per 200,000 hours worked.

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CONTRACTORS (At A Glance Data FY 1978-2016)

Mine Contractors	2010	2011	2012	2013	2014	2015	2016
Coal Fatalities ²	6	5	4	2	2	3	13185
MNM Fatalities ²	6	6	4	2	6	9	3E+05
Total Fatalities ²	12	11	8	4	8	12	25
Coal Fatal Injury Rate ¹	.0249	.0182	.0148	.0086	.0094	.0152	.0094
MNM Fatal Injury Rate ¹	.0204	.0168	.0096	.0046	.0145	.0232	#####
Total Fatal Injury Rate ¹	.0224	.0174	.0117	.0060	.0127	.0205	#####

2E+05 2E+05 1E+05 1E+05 1E+05 1E+05 96908

Mine Contractors	0.318	0.294	0.269	0.248	0.249	0.241	0.229
Coal Fatalities ²	159.7	149.6	143.5	96.04	98.97	71.62	47.78
MNM Fatalities ²	5	5	5	6	10	8	7
Total Fatalities ²	13	10	10	13	15	18	15
Coal Fatal Injury Rate ¹	.0458	.0266	.0238	.0304	.0219	.0394	.0315
MNM Fatal Injury Rate ¹	.0253	.0219	.0192	.0197	.0274	.0195	.0227
Total Fatal Injury Rate ¹	.0349	.0241	.0212	.0243	.0253	.0271	.0267

Mine Contractors	1996	1997	1998	1999	2000	2001	2002
Coal Fatalities ²	4	6	5	4	10	7	7
MNM Fatalities ²	11	24	15	17	13	9	9
Total Fatalities ²	15	30	20	21	23	16	16
Coal Fatal Injury Rate ¹	.0251	.0345	.0272	.0224	.0558	.0361	.0364
MNM Fatal Injury Rate ¹	.0546	.1130	.0704	.0744	.0475	.0352	.0443
Total Fatal Injury Rate ¹	.0416	.0777	.0504	.0516	.0508	.0356	.0404

Mine Contractors	1989	1990	1991	1992	1993	1994	1995
Coal Fatalities ²	5	9	4	12	13	9	9
MNM Fatalities ²	12	10	10	15	10	10	12
Total Fatalities ²	17	19	14	27	23	19	21
Coal Fatal Injury Rate ¹	.0493	.0798	.0325	.0852	.0857	.0553	.0579
MNM Fatal Injury Rate ¹	.0770	.0703	.0630	.1001	.0723	.0599	.0616
Total Fatal Injury Rate ¹	.0661	.0745	.0497	.0929	.0793	.0577	.0600

Mine Contractors			1984	1985	1986	1987	1988
Coal Fatalities ²			6	6	3	5	8
MNM Fatalities ²			12	9	7	11	15
Total Fatalities ²			18	15	10	16	23
Coal Fatal Injury Rate ¹			.0861	.0780	.0397	.0685	.0993
MNM Fatal Injury Rate ¹			.1754	.1120	.0815	.1138	.1198
Total Fatal Injury Rate ¹			.1304	.0954	.0619	.0943	.1118

Mine Contractors		1978	1979	1980	1981	1982	1983
Coal Fatalities ²		N/A	N/A	N/A	N/A	N/A	N/A
MNM Fatalities ²		N/A	N/A	N/A	N/A	N/A	N/A
Total Fatalities ²		N/A	N/A	N/A	N/A	N/A	N/A
Coal Fatal Injury Rate ¹		N/A	N/A	N/A	N/A	N/A	N/A
MNM Fatal Injury Rate ¹		N/A	N/A	N/A	N/A	N/A	N/A
Total Fatal Injury Rate ¹		N/A	N/A	N/A	N/A	N/A	N/A

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

1-Reported injuries per 200,000 hours worked.

2-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.