

Industrial accidents in mining in Japan in 1999-2020

mining industry Code No.02

Type of accidents in mining in 1999-2020

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
fall from height	124	109	116	80	94	79	100	84	81	75	77	59	62	52	65	81	64	55	58	67	61	66
falling to same level	57	49	45	30	36	22	32	32	26	29	28	21	33	31	29	33	21	24	26	29	29	23
crash	40	33	25	33	19	18	23	24	23	6	11	18	11	6	14	8	12	10	8	17	10	7
struck by flying or falling object	68	67	64	50	40	25	29	45	28	32	23	26	20	17	23	23	16	16	14	14	14	18
collapse	22	21	20	18	14	10	15	9	15	7	4	7	6	7	2	5	7	3	8	5	6	6
crashed by	45	31	29	24	28	19	26	29	18	15	12	23	9	9	11	9	11	8	13	14	12	11
caught in/between	121	126	115	87	95	97	91	73	85	61	50	43	51	55	67	62	46	46	48	40	41	39
cut	8	10	13	16	3	8	3	6	7	5	5	1	1	5	4	5	3	3	8	6	5	6
injury to the sole of the foot	3	1	2	-	1	-	1	0	2	0	0	0	0	0	0	1	0	0	1	1	1	0
drown	0	1	0	-	1	2	0	1	0	0	0	0	1	0	1	1	0	1	0	0	0	0
contact to high/low-temperature	18	7	8	4	7	7	8	1	3	1	1	2	2	0	2	0	2	3	4	1	4	6
contact to harmful substance	2	0	1	-	1	-	0	0	0	1	0	1	0	0	0	2	0	0	2	2	1	1
electric shock	0	2	2	-	0	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
explosion	3	0	4	-	2	-	0	0	0	0	0	1	1	2	0	0	0	0	1	2	0	0
burst	0	2	0	1	3	-	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	1
fire	0	1	0	-	5	-	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
traffic accident (public road)	8	13	14	9	5	3	5	5	7	3	7	1	5	2	6	2	7	6	7	4	3	2
traffic accident (others)	1	0	1	2	0	1	0	1	0	0	0	1	0	1	1	1	2	0	0	0	0	0
reaction to motion/improper motion	35	30	35	15	16	25	18	10	11	13	11	12	14	10	11	9	13	8	9	11	16	13
others	2	5	0	2	2	1	2	1	3	1	2	2	2	0	1	0	4	1	2	1	0	0

unclassifiable	0	2	1	-	0	-	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
total	557	510	495	371	372	319	355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199

Causal agents (middle) of industrial accidents in mining in 1999-2020

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine	0	0	0	1	0	-	1	2	2	0	0	0	0	2	0	0	0	0	0	1	0	0
power transmission mechanism	11	9	10	7	6	5	8	6	7	6	1	1	5	3	6	5	7	7	4	4	3	6
woodworking machine	0	5	3	5	2	2	2	0	2	0	1	1	2	1	0	3	1	1	0	1	1	1
construction machine	69	48	80	35	42	36	56	36	35	24	30	33	22	24	32	27	23	18	25	29	22	28
metal manufacturing machine	2	2	2	5	2	5	0	3	2	3	1	0	2	2	5	2	1	1	1	1	0	1
general machine	36	37	44	28	20	23	25	24	33	15	13	16	8	10	16	10	10	10	17	12	7	16
mobile silviculture machine																	0	0	1	0	0	0
crane	7	9	12	12	3	2	3	6	9	5	2	5	7	3	2	8	5	5	5	1	6	8
conveying machine	111	125	100	97	104	94	90	91	72	73	84	50	52	61	75	65	65	60	65	58	58	54
vehicle	6	8	6	3	7	2	7	5	4	4	0	2	3	3	2	3	4	4	3	3	4	3
pressure vessel	0	0	0	-	0	-	1	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0
chemical facilities	0	0	0	-	0	-	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	6	1	1	1	1	-	2	1	0	0	1	0	1	0	1	1	0	0	0	0	0	2
kiln, caldron	1	0	0	-	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
electric equipment	0	4	1	-	0	4	1	0	1	0	0	1	0	2	0	1	0	0	1	0	0	0
human power machine, tools	30	17	18	14	9	7	8	13	7	7	5	5	6	3	7	8	6	6	5	4	7	2
tools	25	18	18	21	18	14	24	14	14	17	11	6	8	9	11	7	8	8	12	13	12	8
other equipments, facilities	10	19	7	7	21	8	7	9	8	7	6	7	8	3	10	4	3	3	2	1	9	2
temporary buildings,	91	68	70	41	49	44	49	45	45	32	33	38	39	24	36	53	35	29	32	45	41	26

establishments																						
hazards, harmful substances	4	3	3	-	3	5	2	0	0	1	0	1	1	3	0	1	0	3	4	3	2	1
materials	75	58	60	51	35	29	37	35	37	31	15	20	17	17	13	16	9	17	11	16	11	9
load	9	9	8	1	5	4	4	2	6	4	5	5	5	0	2	1	2	0	2	1	4	3
natural environment	49	56	39	32	33	30	21	25	17	16	16	19	26	18	17	23	21	7	15	13	10	21
other causal agent	6	2	3	3	0	1	3	1	3	0	0	0	2	1	1	0	2	0	1	0	0	2
no causal agent	8	11	9	6	12	3	3	4	5	4	7	6	4	8	3	5	5	5	3	7	6	6
unclassifiable	1	1	1	1	0	-	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
total	557	510	495	371	372	319	355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199

Causal agents (small) of industrial accidents in mining in 1999-2020

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine			0		0		1	2	2	0	0	0	0	2	0	0	0	0	0	1	0	0
power transmission mechanism			10		6		8	6	7	6	1	1	5	3	6	5	7	7	4	4	3	6
circular sawing machine			1		2		1	0	0	0	1	0	0	0	0	1	1	1	0	1	1	0
band sawing machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wood planer machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hollow chisel mortiser, wood borer			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chamfering machine, router, woodworking milling machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw			2		0		1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	1
other woodworking machines			0		0		0	0	1	0	0	1	2	0	0	1	0	0	0	0	0	0
leveling, transporting or loading machine			34		15		27	18	14	9	11	13	12	8	10	9	8	5	12	11	8	15
excavating machine			36		20		20	15	18	13	15	17	9	15	15	15	14	9	9	11	12	10

machine																0	0	0	0	0	0
other mobile silviculture machine																0	0	0	0	0	0
crane			3	3	1	4	2	3	0	2	3	2	1	2	1	2	3	1	3	4	
mobile crane			1	0	1	2	6	1	1	1	4	1	0	6	4	2	0	0	3	2	
derrick crane			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
elevator, lift			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
cargo lifting appliance			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
gondola			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
lumberyard equipment, logging cableway			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
simple skyline yarding equipment															0	0	0	0	0	0	
other powered crane			8	0	1	0	1	1	1	2	0	0	1	0	0	1	2	0	0	2	
truck			45	39	27	42	24	40	42	23	24	23	37	26	39	30	29	25	28	32	
forklift			2	4	2	1	2	1	3	0	1	1	1	0	3	0	2	1	1	1	
railway equipment			1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
conveyor			46	55	54	44	41	32	34	25	22	35	36	36	21	24	30	25	23	20	
loader			3	2	5	3	2	0	3	0	3	2	0	2	1	3	3	5	3	1	
straddle carrier			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
rough terrain hauler			0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
other powered conveying machines			3	2	1	1	3	0	2	2	2	0	1	1	1	3	0	1	2	0	
cars, bus, motorcycle			4	7	6	5	4	2	0	1	3	2	1	3	2	4	3	2	4	1	
railway vehicle			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other vehicles			2	0	1	0	0	2	0	1	0	1	1	0	2	0	0	1	0	2	
boiler			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
pressure vessel			0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	
other pressure vessels			0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
chemical facilities			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
gas welding			0	1	1	0	0	0	1	0	1	0	1	1	0	0	0	0	0	2	

equipment																					
arc welding equipment			1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other welding equipment			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron			0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
industrial dryer			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other kiln, caldron			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission			0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
electric power facilities			1	0	1	0	1	0	0	1	0	1	0	0	0	0	1	0	0	0	0
other electrical equipment			0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
human power cranes			1	3	0	1	2	0	0	0	0	0	3	2	0	3	0	1	0	0	0
human power hauling equipment			0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0
human power machine			1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0
hand tool			16	6	6	12	5	6	4	5	6	3	3	6	6	3	5	3	4	2	2
ladder			9	7	13	6	3	9	4	4	6	7	9	2	5	5	6	5	9	4	4
slinging tool			5	4	4	2	4	3	4	0	1	1	1	1	1	2	2	5	2	2	2
other tools			4	7	7	6	7	5	3	2	1	1	1	4	2	1	4	3	1	2	2
other equipment, facilities			7	21	7	9	8	7	6	7	8	3	10	4	3	3	2	1	9	2	2
scaffolding			4	2	2	3	4	3	0	3	3	2	0	3	2	2	0	1	2	2	2
timbering			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
stairs, landing stage			7	9	11	8	8	6	11	3	3	6	6	6	5	3	5	5	6	5	5
opening			3	2	0	4	3	1	1	1	2	0	0	1	1	0	1	0	1	0	0
roof, beam, haze, crossbeam, principal rafter			4	1	3	1	1	1	2	2	2	1	0	1	0	0	0	1	0	1	1
working platform, boot board			15	8	6	5	3	4	4	5	2	1	5	8	6	10	6	9	6	6	6
passage			19	12	14	11	9	9	8	14	14	9	15	16	13	9	16	16	10	6	6
building, establishment			11	10	9	10	14	7	2	7	10	4	6	8	5	4	3	7	8	6	6

19 years old or less	4	4	2	5	7	4	5	6	3	1	0	0	0	0	5	3	1	2	0	0	2	0
20-29	63	58	47	27	27	25	22	19	25	17	13	10	11	10	20	11	9	14	10	12	13	12
30-39	79	59	67	58	46	47	56	62	33	40	33	34	41	27	29	38	32	26	20	19	20	18
40-49	123	121	124	77	77	73	69	62	70	47	49	47	45	58	49	51	48	36	51	49	49	42
50-59	194	175	173	128	139	114	135	117	109	81	79	59	63	61	64	68	53	41	59	56	56	53
60 years old or more	94	93	82	76	76	56	68	56	70	63	57	68	58	41	72	73	66	65	69	78	63	74
total	557	510	495	371	372	319	355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199

Workers' number of workplace of industrial accidents in mining in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	197	166	145	145	146	128	142	119	124	92	94	89	93	78	85	90	84	62	70	58	45	65
10-29	234	216	231	160	177	142	158	167	146	127	118	95	95	91	112	122	94	91	110	117	108	100
30-49	61	64	54	49	34	29	38	29	33	23	12	21	25	21	32	24	26	23	15	28	34	25
50-99	20	27	19	12	10	12	12	5	2	4	5	7	4	5	8	4	5	6	11	8	10	4
100-299	19	12	13	5	5	7	2	2	3	2	2	4	1	1	2	2	0	2	2	3	6	4
300 workers or more	26	25	33	—	0	1	3	0	2	1	0	2	0	1	0	2	0	0	1	0	0	1
total	557	510	495	371	372	319	355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199

Month of industrial accidents in mining in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	39	36	44	25	27	35	26	23	30	19	24	17	17	15	20	15	14	16	12	17	21	15
February	44	52	42	30	40	33	30	32	26	18	10	8	26	22	19	24	23	14	14	12	16	18
March	33	41	56	35	26	22	29	27	27	24	19	26	20	22	16	21	17	20	16	22	18	14
April	45	41	41	29	31	25	32	26	30	26	17	16	17	15	18	27	10	18	21	13	12	21
May	52	38	36	25	43	24	24	27	27	26	17	21	8	17	24	15	20	12	20	17	12	11
June	51	43	40	35	26	27	32	31	19	21	24	14	32	14	18	24	20	20	19	22	17	14
July	59	42	38	20	35	25	32	24	27	22	25	21	14	15	17	15	16	22	18	14	18	16
August	46	43	31	31	34	27	36	37	26	18	20	21	12	15	17	17	21	13	16	16	11	15
September	56	32	42	36	31	32	22	27	28	19	24	23	21	10	17	19	19	5	17	18	20	19
October	40	50	47	29	21	28	40	23	22	25	24	18	13	19	24	22	14	15	18	24	22	20
November	44	51	49	40	31	22	30	26	23	17	12	16	21	20	23	26	15	16	21	18	19	15
December	48	41	29	36	27	19	22	19	25	14	15	17	17	13	26	19	20	13	17	21	17	21

total	557	510	495	371	372	319	355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199
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Prefecture of industrial accidents in mining in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	49	50	38		32		35	24	23	17	28	26	26	20	26	24	15	22	21	24	23	
Aomori	8	5	11		10		5	5	3	4	6	5	4	4	2	3	1	3	2	2	4	3
Iwate	14	5	11		8		7	7	6	7	7	6	2	3	6	6	7	7	5	2	2	4
Miyagi	6	6	7		4		10	12	3	3	7	2	6	8	7	13	15	8	8	10	4	3
Akita	9	11	7		7		6	8	5	0	2	3	3	3	5	6	3	2	2	5	6	2
Yamagata	14	19	14		9		9	6	6	4	1	5	6	4	6	5	3	6	5	0	6	5
Fukushima	14	16	4		14		12	8	5	6	2	4	3	5	9	7	6	8	9	13	5	6
Ibaraki	13	13	9		11		11	6	9	9	5	8	6	8	5	4	7	5	5	7	6	10
Tochigi	12	11	13		13		13	18	15	16	8	7	13	8	13	7	4	7	4	8	11	7
Gunma	9	8	12		10		3	4	5	6	4	2	3	2	4	1	0	2	3	3	1	1
Saitama	6	11	5		3		3	1	6	2	1	4	2	1	1	2	0	2	7	9	6	0
Chiba	6	9	3		4		4	3	6	2	3	4	6	4	4	1	4	3	4	5	5	4
Tokyo	9	9	4		2		3	4	5	1	3	1	3	4	2	2	2	2	2	4	1	2
Kanagawa	6	4	8		5		1	4	3	4	1	2	1	1	2	5	2	1	2	1	1	4
Niigata	14	15	14		18		10	11	10	10	3	5	5	10	10	6	6	5	5	6	5	3
Toyama	10	6	10		2		9	1	1	4	6	4	4	1	4	4	3	1	3	3	1	1
Ishikawa	5	2	7		7		7	1	1	1	3	1	4	1	4	2	3	1	3	0	1	2
Fukui	7	11	1		2		2	0	4	0	0	1	2	2	3	1	4	3	4	2	0	3
Yamanashi	9	3	6		7		7	3	6	4	2	4	4	3	2	4	1	1	2	3	2	3
Nagano	18	9	15		11		9	4	10	9	10	6	5	2	6	5	4	3	5	8	10	8
Gifu	20	19	14		16		15	14	12	13	5	5	5	6	3	8	7	9	5	11	6	6
Shizuoka	16	8	8		15		8	12	14	16	16	4	6	11	5	9	4	3	10	7	6	3
Aichi	12	15	18		13		7	7	6	9	6	9	8	14	8	9	2	5	4	8	7	10
Mie	12	31	27		17		12	8	4	8	5	6	5	6	13	10	9	6	4	7	7	6
Shiga	4	4	5		6		2	3	2	1	2	3	3	0	3	0	2	3	1	1	1	2
Kyoto	8	4	8		12		11	4	5	6	2	1	3	3	7	6	5	3	8	2	1	6
Osaka	5	4	7		2		3	0	4	4	1	3	3	3	1	0	6	3	6	3	2	3
Hyogo	21	16	21		6		13	10	12	7	10	13	9	11	7	11	6	3	5	3	8	11
Nara	1	1	0		2		2	4	3	1	1	0	2	2	2	1	4	3	0	0	4	1
Wakayama	4	4	4		2		2	2	2	1	1	0	2	1	2	1	2	3	1	1	1	2
Tottori	3	4	2		5		4	1	2	1	1	2	1	0	1	1	0	2	1	2	0	1

Shimane	9	7	4	5	7	3	7	5	5	4	5	2	2	1	3	3	1	4	2	2
Okayama	10	12	11	9	10	10	12	7	6	4	7	6	10	9	6	7	10	5	4	6
Hiroshima	15	17	14	8	8	6	12	3	6	3	5	3	8	7	6	2	7	8	6	5
Yamaguchi	5	7	7	7	3	8	4	1	4	5	2	4	3	6	5	3	1	2	1	3
Tokushima	4	8	4	3	1	5	2	1	4	1	1	2	1	3	2	2	5	2	3	3
Kagawa	18	7	9	9	11	7	7	7	5	3	0	1	2	4	2	6	4	3	4	3
Ehime	14	11	15	16	17	15	14	8	11	11	13	6	13	13	9	4	4	6	3	4
Kochi	9	1	7	2	3	2	4	3	3	3	1	1	0	1	1	1	2	1	3	3
Fukuoka	18	12	14	7	4	13	6	8	9	6	8	4	5	6	6	6	4	5	5	3
Saga	6	3	7	3	1	6	2	4	2	4	1	2	1	3	4	1	1	5	2	2
Nagasaki	61	47	50	3	7	6	7	5	5	2	5	1	4	6	2	2	4	2	7	5
Kumamoto	21	24	12	10	13	18	8	8	10	10	5	8	5	5	6	7	7	5	12	7
Oita	10	9	5	5	9	9	6	6	2	3	3	1	3	6	4	6	1	2	2	3
Miyazaki	6	4	14	2	4	7	4	3	4	6	2	1	3	3	4	1	4	1	3	2
Kagoshima	7	8	7	8	10	11	15	4	3	6	5	4	5	4	3	5	6	5	2	3
Okinawa	0	0	2	0	2	1	2	0	0	1	0	0	1	1	0	0	1	1	0	0
total	557	510	495	372	355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199

Industrial accidents mean fatal and non-fatal injuries with work absence of 4 days and more. Data of 2011 year include Industrial accidents caused by Great East Japan Earthquake in 2011.

Data sources: <https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm> (MHLW, Japan)

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 Fatal accidents in mining in Japan in 1999-2020

mining industry Code No.02

Type of fatal accidents in mining in 1999-2020

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
fall from height	7	3	12	6	2	5	4	3	5	3	7	2	7	2	2	4	3	1	5	1	2	1
falling to same level	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	1
crash	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
struck by flying or	4	2	2	1	0	0	2	0	0	1	0	0	0	0	0	0	0	0	2	0	0	1

construction machine	7	2	7	6	1	5	4	2	4	3	3	1	6	1	2	5	2	1	3	0	2	2
metal manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
general machine	1	4	3	0	1	0	0	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0
mobile silviculture machine																	0	0	0	0	0	0
crane	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveying machine	4	7	3	4	3	3	4	7	7	3	5	3	2	2	2	2	4	2	5	0	5	3
vehicle	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pressure vessel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric equipment	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power machine, tools	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tools	0	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
other equipments, facilities	0	1	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
temporary buildings, establishments	1	1	1	1	0	1	2	0	0	0	0	0	2	1	1	2	1	0	2	0	1	0
hazards, harmful substances	1	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	1	1	0	0
materials	2	2	1	0	1	0	1	2	1	0	0	1	0	0	0	0	0	2	0	0	0	2
load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural environment	7	6	5	5	2	4	4	3	0	1	1	0	3	1	2	2	2	1	2	1	2	1
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8

stone, sand, substance	1	2	1	0	1	0	1	1	1	0	0	0	0	0	0	0	0	2	0	0	0	2
other materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
machine/equipment as load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural ground, rock	7	5	5	5	2	2	4	2	0	1	1	0	1	1	0	2	0	0	1	1	2	1
standing tree	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
water	0	0	0	0	0	1	0	1	0	0	0	0	2	0	1	0	0	1	0	0	0	0
abnormal environment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
high/cold temperature environment	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
other environments	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8

Workers age of fatal accidents in mining in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
19 years old or less	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-29	1	2	2	0	3	1	0	2	1	0	0	0	2	1	1	2	0	0	0	0	0	1
30-39	3	2	2	2	0	4	2	2	1	1	2	0	0	0	0	1	0	1	0	1	1	0
40-49	2	6	3	8	5	0	4	1	1	2	3	0	4	1	1	0	1	1	2	0	1	2
50-59	11	11	9	4	4	7	7	8	7	3	1	2	2	2	1	4	5	3	4	0	3	1
60 years old or more	7	5	8	3	2	4	3	1	3	2	3	3	5	2	5	6	4	2	7	1	5	4
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8

Workers' number of workplace of fatal accidents in mining in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	5	12	5	5	3	6	5	3	4	1	2	3	4	3	3	6	4	4	9	1	3	5

10-29	17	10	13	9	8	8	10	12	7	7	6	2	7	2	5	6	5	2	3	1	6	3
30-49	2	1	5	3	3	0	1	0	1	0	1	0	1	1	0	1	1	1	0	0	1	0
50-99	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0
100-299	0	2	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
300 workers or more	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8

Month of fatal accidents in mining in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	3	4	3	1	0	2	2	2	0	0	1	1	0	0	2	0	0	1	1	0	1	0
February	0	3	4	2	3	1	3	0	0	0	0	0	1	0	1	1	2	1	2	0	1	1
March	0	1	3	2	0	1	0	0	0	1	1	0	2	1	1	2	1	0	0	0	2	0
April	2	3	1	1	1	2	2	4	2	0	0	1	0	1	0	2	1	1	2	0	0	1
May	2	0	0	1	3	2	2	0	2	2	0	1	1	1	0	1	0	0	1	0	0	1
June	5	2	1	0	1	0	1	1	1	2	4	0	3	1	0	0	1	1	2	0	0	1
July	1	0	2	1	2	0	2	3	2	1	1	1	1	1	1	1	2	0	1	0	1	0
August	3	2	1	2	1	4	0	1	1	1	0	0	1	0	0	1	1	1	0	1	0	0
September	2	1	2	2	0	2	2	1	1	0	0	0	1	0	0	0	2	0	1	1	2	1
October	1	2	4	1	1	1	1	3	1	0	0	1	0	0	2	1	0	0	2	0	3	0
November	3	4	2	3	1	1	1	0	1	0	0	0	3	0	0	3	0	2	1	0	0	2
December	2	4	1	1	1	0	0	1	2	1	2	0	0	1	1	1	0	0	0	0	0	1
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8

Prefecture of fatal accidents in mining in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	2	4	3	1	1	2	1	1	1	1	0	0	3	0	1	1	2	1	2	0	0	1
Aomori	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Iwate	0	1	0	1	0	0	0	1	1	0	1	0	1	0	1	1	0	0	0	0	0	0
Miyagi	1	0	0	0	0	0	2	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0
Akita	3	1	0	1	0	0	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	0
Yamagata	0	1	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Fukushima	1	1	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0	0	2	0	0	0
Ibaraki	0	2	0	0	1	2	2	0	0	0	0	1	1	0	0	1	0	0	1	1	0	0

Oita	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
Miyazaki	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1
Kagoshima	0	1	0	2	0	1	0	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0
Okinawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8

Data sources: <https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm> (MHLW, Japan)

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