

Fatal & non-fatal accidents in mining in Japan in 1999-2021

mining industry Code No.02

Type of accidents in mining in 1999-2021

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	2021
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	82
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	27
crash	40	33	25	33	19	18	23	24	23	6	11	18	11	6	14	8	12	10	8	17	10	7	9
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	9
collapse	22	21	20	18	14	10	15	9	15	7	4	7	6	7	2	5	7	3	8	5	6	6	1
crashed by	45	31	29	24	28	19	26	29	18	15	12	23	9	9	11	9	11	8	13	14	12	11	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	48
cut	8	10	13	16	3	8	3	6	7	5	5	1	1	5	4	5	3	3	8	6	5	6	1
injury to the sole of the foot	3	1	2	0	1	0	1	0	2	0	0	0	0	0	0	1	0	0	1	1	1	0	0
drown	0	1	0	0	1	2	0	1	0	0	0	0	1	0	1	1	0	1	0	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	2
contact to harmful substance	2	0	1	0	1	0	0	0	0	1	0	1	0	0	0	2	0	0	2	2	1	1	0
electric shock	0	2	2	0	0	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
explosion	3	0	4	0	2	0	0	0	0	0	0	1	1	2	0	0	0	0	1	2	0	0	0
burst	0	2	0	1	3	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	1	3
fire	0	1	0	0	5	0	1	0	0	0	0	0	0	0	0	1	1	0	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	5
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	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	17
others	2	5	0	2	2	1	2	1	3	1	2	2	2	0	1	0	4	1	2	1	0	0	1
unclassifiable	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	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	216

Causal agents (middle) of industrial accidents in mining in 1999-2021

machine, router, woodworking milling machine			0	0	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	0	1	0	1	0	0	0	0	0	0	1	0
other woodworking machines			0	0	0	0	1	0	0	1	2	0	0	1	0	0	0	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	14		
excavating machine			36	20	20	15	18	13	15	17	9	15	15	15	14	9	9	11	12	10	12		
foundation work machine			1	1	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
hardening machine			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
demolition machine			1	1	2	1	1	0	1	1	0	0	2	1	0	0	2	4	1	2	0		
vehicle for high lift work			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other construction machines			8	4	4	2	2	2	3	2	1	1	4	2	1	4	2	3	1	1	2		
lathe			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
drill press, milling			0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0

human power machine			1	0	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	3	
ladder			9	7	13	6	3	9	4	4	6	7	9	2	5	5	6	5	9	4	9	
slinging tool			5	4	4	2	4	3	4	0	1	1	1	1	1	2	2	5	2	2	1	
other tools			4	7	7	6	7	5	3	2	1	1	1	4	2	1	4	3	1	2	9	
other equipment, facilities			7	21	7	9	8	7	6	7	8	3	10	4	3	3	2	1	9	2	3	
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	1	
stairs, landing stage			7	9	11	8	8	6	11	3	3	6	6	6	5	3	5	5	6	5	6	
opening			3	2	0	4	3	1	1	1	2	0	0	1	1	0	1	0	1	0	1	
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	7	
passage			19	12	14	11	9	9	8	14	14	9	15	16	13	9	16	16	10	6	17	
building, establishment			11	10	9	10	14	7	2	7	10	4	6	8	5	4	3	7	8	6	3	

other temporary buildings, establishments			7		5		4	3	3	1	5	3	3	1	4	10	3	1	1	5	8	0	0
explosive substance			0		1		2	0	0	0	0	0	1	1	0	0	0	0	2	1	0	0	0
inflammable substance			1		1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
inflammable gas			0		0		0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
harmful substance			1		1		0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
radiation			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances			1		0		0	0	0	1	0	0	0	0	0	1	0	3	1	2	1	0	0
metal material			19		12		14	17	11	12	4	8	6	7	4	7	5	6	6	9	5	3	9
lumber, bamboo			6		2		0	1	2	1	1	2	1	0	0	0	1	1	0	0	1	0	0
stone, sand, substance			32		18		20	15	22	18	9	10	8	10	7	9	3	9	4	5	5	5	3
other materials			3		3		3	2	2	0	1	0	2	0	2	0	0	1	1	2	0	1	0
load			5		4		4	1	5	4	4	4	5	0	1	1	1	0	2	1	4	3	2
machine/equipment as load			3		1		0	1	1	0	1	1	0	0	1	0	1	0	0	0	0	0	1
natural ground,			26		23		15	19	12	12	12	12	13	11	10	13	14	3	10	5	8	14	5

rock																							
standing tree			2		5		1	2	3	1	2	3	2	2	0	1	2	1	2	2	0	1	1
water			0		0		0	1	0	0	0	0	2	0	1	0	0	1	0	1	0	0	1
abnormal environment			0		0		0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
high/cold temperature environment			3		3		1	0	0	0	0	1	1	0	1	0	2	0	0	1	0	3	1
other environments			8		2		4	3	2	2	2	3	8	5	4	9	3	2	3	4	2	3	3
other causal agent			3		0		3	1	3	0	0	0	2	1	1	0	2	0	1	0	0	2	1
no causal agent			9		12		3	4	5	4	7	6	4	8	3	5	5	5	3	7	6	6	10
unclassifiable			1		0		0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
total			495		372		355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199	216

Workers age of industrial accidents in mining in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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	1
20-29	63	58	47	27	27	25	22	19	25	17	13	10	11	10	20	11	9	14	10	12	13	12	10
30-39	79	59	67	58	46	47	56	62	33	40	33	34	41	27	29	38	32	26	20	19	20	18	24

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
January	39	36	44	25	27	35	26	23	30	19	24	17	17	15	20	15	14	16	12	17	21	15	18
February	44	52	42	30	40	33	30	32	26	18	10	8	26	22	19	24	23	14	14	12	16	18	17
March	33	41	56	35	26	22	29	27	27	24	19	26	20	22	16	21	17	20	16	22	18	14	18
April	45	41	41	29	31	25	32	26	30	26	17	16	17	15	18	27	10	18	21	13	12	21	18
May	52	38	36	25	43	24	24	27	27	26	17	21	8	17	24	15	20	12	20	17	12	11	16
June	51	43	40	35	26	27	32	31	19	21	24	14	32	14	18	24	20	20	19	22	17	14	24
July	59	42	38	20	35	25	32	24	27	22	25	21	14	15	17	15	16	22	18	14	18	16	21
August	46	43	31	31	34	27	36	37	26	18	20	21	12	15	17	17	21	13	16	16	11	15	18
September	56	32	42	36	31	32	22	27	28	19	24	23	21	10	17	19	19	5	17	18	20	19	11
October	40	50	47	29	21	28	40	23	22	25	24	18	13	19	24	22	14	15	18	24	22	20	23
November	44	51	49	40	31	22	30	26	23	17	12	16	21	20	23	26	15	16	21	18	19	15	14
December	48	41	29	36	27	19	22	19	25	14	15	17	17	13	26	19	20	13	17	21	17	21	18
total	557	510	495	371	372	319	355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199	216

Prefecture of industrial accidents in mining in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Hokkaido	49	50	38		32		35	24	23	17	28	26	26	20	26	26	24	15	22	21	24	23	26
Aomori	8	5	11		10		5	5	3	4	6	5	4	4	2	3	1	3	2	2	4	3	5

Iwate	14	5	11		8		7	7	6	7	7	6	2	3	6	6	7	7	5	2	2	4	8
Miyagi	6	6	7		4		10	12	3	3	7	2	6	8	7	13	15	8	8	10	4	3	7
Akita	9	11	7		7		6	8	5	0	2	3	3	3	5	6	3	2	2	5	6	2	3
Yamagata	14	19	14		9		9	6	6	4	1	5	6	4	6	5	3	6	5	0	6	5	5
Fukushima	14	16	4		14		12	8	5	6	2	4	3	5	9	7	6	8	9	13	5	6	5
Ibaraki	13	13	9		11		11	6	9	9	5	8	6	8	5	4	7	5	5	7	6	10	6
Tochigi	12	11	13		13		13	18	15	16	8	7	13	8	13	7	4	7	4	8	11	7	9
Gunma	9	8	12		10		3	4	5	6	4	2	3	2	4	1	0	2	3	3	1	1	1
Saitama	6	11	5		3		3	1	6	2	1	4	2	1	1	2	0	2	7	9	6	0	2
Chiba	6	9	3		4		4	3	6	2	3	4	6	4	4	1	4	3	4	5	5	4	4
Tokyo	9	9	4		2		3	4	5	1	3	1	3	4	2	2	2	2	2	4	1	2	3
Kanagawa	6	4	8		5		1	4	3	4	1	2	1	1	2	5	2	1	2	1	1	4	2
Niigata	14	15	14		18		10	11	10	10	3	5	5	10	10	6	6	5	5	6	5	3	17
Toyama	10	6	10		2		9	1	1	4	6	4	4	1	4	4	3	1	3	3	1	1	3
Ishikawa	5	2	7		7		7	1	1	1	3	1	4	1	4	2	3	1	3	0	1	2	3
Fukui	7	11	1		2		2	0	4	0	0	1	2	2	3	1	4	3	4	2	0	3	0
Yamanashi	9	3	6		7		7	3	6	4	2	4	4	3	2	4	1	1	2	3	2	3	4
Nagano	18	9	15		11		9	4	10	9	10	6	5	2	6	5	4	3	5	8	10	8	8
Gifu	20	19	14		16		15	14	12	13	5	5	5	6	3	8	7	9	5	11	6	6	4

Saga	6	3	7		3		1	6	2	4	2	4	1	2	1	3	4	1	1	5	2	2	4
Nagasaki	61	47	50		3		7	6	7	5	5	2	5	1	4	6	2	2	4	2	7	5	2
Kumamoto	21	24	12		10		13	18	8	8	10	10	5	8	5	5	6	7	7	5	12	7	3
Oita	10	9	5		5		9	9	6	6	2	3	3	1	3	6	4	6	1	2	2	3	2
Miyazaki	6	4	14		2		4	7	4	3	4	6	2	1	3	3	4	1	4	1	3	2	5
Kagoshima	7	8	7		8		10	11	15	4	3	6	5	4	5	4	3	5	6	5	2	3	2
Okinawa	0	0	2		0		2	1	2	0	0	1	0	0	1	1	0	0	1	1	0	0	1
total	557	510	495		372		355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199	216

Industrial accidents mean fatal and non-fatal injuries and occupational diseases 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)

Return to https://www.jisha.or.jp/english/statistics/2021em_industry.html

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Fatal accidents in mining in Japan in 1999-2021

mining industry Code No.02

Type of fatal accidents in mining in 1999-2021

kiln, caldron	0	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	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	0
tools	0	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	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	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	1
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	0
materials	2	2	1	0	1	0	1	2	1	0	0	1	0	0	0	0	0	2	0	0	0	2	0
load	0	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	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	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	0
unclassifiable	0	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	11

truck	2	2	2	2	2	1	3	2	4	2	4	2	2	1	0	1	3	1	1	0	3	0	2
forklift	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0
railway equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveyor	2	5	1	2	1	2	1	4	2	1	1	1	0	1	2	1	1	1	2	0	2	2	1
loader	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
straddle carrier	0	0	0	0	0	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	0	0	0	0	1	0	0	0	0
other powered conveying machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cars, bus, motorcycle	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
railway vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other vehicles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
boiler	0	0	0	0	0	0	0	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	0
other pressure vessels	0	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	0
gas welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

environment																							
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	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	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	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	0
unclassifiable	0	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	11

Workers age of fatal accidents in mining in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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	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	0
30-39	3	2	2	2	0	4	2	2	1	1	2	0	0	0	0	1	0	1	0	1	1	0	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	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	3
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	6

total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8	11
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Workers' number of workplace of fatal accidents in mining in 1999-2021

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
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	1
10-29	17	10	13	9	8	8	10	12	7	7	6	2	7	2	5	6	5	2	3	1	6	3	6
30-49	2	1	5	3	3	0	1	0	1	0	1	0	1	1	0	1	1	1	0	0	1	0	1
50-99	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	3
100-299	0	2	1	0	0	2	0	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	0
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8	11

Month of fatal accidents in mining in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
January	3	4	3	1	0	2	2	2	0	0	1	1	0	0	2	0	0	1	1	0	1	0	1
February	0	3	4	2	3	1	3	0	0	0	0	0	1	0	1	1	2	1	2	0	1	1	0
March	0	1	3	2	0	1	0	0	0	1	1	0	2	1	1	2	1	0	0	0	2	0	0

Miyazaki	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0
Kagoshima	0	1	0	2	0	1	0	1	2	0	0	1	0	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	0
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8	11

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

Return to https://www.jisha.or.jp/english/statistics/2021em_industry.html