

Fatal and 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	total	Type of accidents
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	1,791	fall from height
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	712	falling to same level
crash	40	33	25	33	19	18	23	24	23	6	11	18	11	6	14	8	12	10	8	17	10	7	9	385	crash
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	681	struck by flying or falling object
collapse	22	21	20	18	14	10	15	9	15	7	4	7	6	7	2	5	7	3	8	5	6	6	1	218	collapse
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	417	crashed by
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	1,587	caught in/between
cut	8	10	13	16	3	8	3	6	7	5	5	1	1	5	4	5	3	3	8	6	5	6	1	132	cut
injury to the sole of the foot	3	1	2		1		1		2							1			1	1	1			14	injury to the sole of the foot
drown		1			1	2		1					1		1	1		1						9	drown
contact to high/low-temperature	18	7	8	4	7	7	8	1	3	1	1	2	2		2		2	3	4	1	4	6	2	93	contact to high/low-temperature

contact to harmful substance	2		1		1					1		1				2			2	2	1	1		14	contact to harmful substance
electric shock		2	2			2	1		1															8	electric shock
explosion	3		4		2							1	1	2					1	2				16	explosion
burst		2		1	3			1							2							1	3	13	burst
fire		1			5		1									1	1							9	fire
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	129	traffic accident (public road)
traffic accident (others)	1		1	2		1		1				1		1	1	1	2							12	traffic accident (others)
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	362	reaction to motion/improper motion
others	2	5		2	2	1	2	1	3	1	2	2	2		1		4	1	2	1			1	35	others
unclassifiable		2	1													1								4	unclassifiable
total	557	510	495	371	372	319	355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199	216	6,641	total

Causal agents (large) of fatal and non-fatal accidents in mining in 1999-2021

[illegible]

tools	25	18	18	21	18	14	24	14	14	17	11	6	8	9	11	7	8	8	12	13	12	8	19	315	tools
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	3	164	other equipments, facilities
temporary buildings, establishments	91	68	70	41	49	44	49	45	45	32	33	38	39	24	36	53	35	29	32	45	41	26	38	1,003	temporary buildings, establishments
hazards, harmful substances	4	3	3		3	5	2			1		1	1	3		1		3	4	3	2	1		40	hazards, harmful substances
materials	75	58	60	51	35	29	37	35	37	31	15	20	17	17	13	16	9	17	11	16	11	9	12	631	materials
load	9	9	8	1	5	4	4	2	6	4	5	5	5		2	1	2		2	1	4	3	3	85	load
natural environment	49	56	39	32	33	30	21	25	17	16	16	19	26	18	17	23	21	7	15	13	10	21	11	535	natural environment
other causal agent	6	2	3	3		1	3	1	3				2	1	1		2		1			2	1	32	other causal agent
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	10	140	no causal agent
unclassifiable	1	1	1	1								1				1								6	unclassifiable
total	557	510	495	371	372	319	355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199	216	6,641	total

Causal agents (small) of fatal and non-fatal accidents in mining in 1999-2021

[illegible]

engine							1	2	2					2						1					8	engine
power transmission mechanism			10		6		8	6	7	6	1	1	5	3	6	5	7	7	4	4	3	6	3	98	power transmission mechanism	
circular sawing machine			1		2		1				1					1	1	1		1	1			10	circular sawing machine	
band sawing machine																									band sawing machine	
wood planer machine																									wood planer machine	
hollow chisel mortiser, wood borer																									hollow chisel mortiser, wood borer	
chamfering machine, router, woodworking milling machine																									chamfering machine, router, woodworking milling machine	
chain saw			2				1		1				1		1						1		7	chain saw		
other woodworking machines									1			1	2		1								5	other woodworking machines		
leveling, transporting or loading machine			34		15		27	18	14	9	11	13	12	8	10	9	8	5	12	11	8	15	14	253	leveling, transporting or loading machine	
excavating machine			36		20		20	15	18	13	15	17	9	15	15	15	14	9	9	11	12	10	12	285	excavating machine	
foundation work machine			1		1		3								1								1	7	foundation work machine	

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machine																									machine
food manufacturing machine																						1		1	food manufacturing machine
printing machine																									printing machine
industrial robot												1												1	industrial robot
other general power machines			26		9		14	14	21	10	4	11	5	5	7	8	5	5	10	10	3	10	6	183	other general power machines
felling machine																			1					1	felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
crane			3		3		1	4	2	3		2	3	2	1	2	1	2	3	1	3	4	1	41	crane
mobile crane			1				1	2	6	1	1	1	4	1		6	4	2			3	2	1	36	mobile crane
derrick crane																									derrick crane
elevator, lift																									elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																							1	1	lumberyard equipment, logging cableway

simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane			8				1		1	1	1	2			1			1	2			2	2	22	other powered crane
truck			45		39		27	42	24	40	42	23	24	23	37	26	39	30	29	25	28	32	43	618	truck
forklift			2		4		2	1	2	1	3		1	1	1		3		2	1	1	1	1	27	forklift
railway equipment			1		2		1														1			5	railway equipment
conveyor			46		55		54	44	41	32	34	25	22	35	36	36	21	24	30	25	23	20	17	620	conveyor
loader			3		2		5	3	2		3		3	2		2	1	3	3	5	3	1	1	42	loader
straddle carrier																									straddle carrier
rough terrain hauler																			1	1				2	rough terrain hauler
other powered conveying machines			3		2		1	1	3		2	2	2		1	1	1	3		1	2			25	other powered conveying machines
cars, bus, motorcycle			4		7		6	5	4	2		1	3	2	1	3	2	4	3	2	4	1	6	60	cars, bus, motorcycle
railway vehicle																									railway vehicle
other vehicles			2				1			2		1		1	1		2			1		2	1	14	other vehicles
boiler																									boiler
pressure vessel							1									1				1				3	pressure vessel
other pressure vessels												1												1	other pressure vessels
chemical facilities							1																	1	chemical facilities
gas welding					1		1				1		1		1	1						2		8	gas welding

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facilities			7		21		7	9	8	7	6	7	8	3	10	4	3	3	2	1	9	2	3	120	facilities
scaffolding			4		2		2	3	4	3		3	3	2		3	2	2		1	2	2	2	40	scaffolding
timbering																				1			1	2	timbering
stairs, landing stage			7		9		11	8	8	6	11	3	3	6	6	6	5	3	5	5	6	5	6	119	stairs, landing stage
opening			3		2			4	3	1	1	1	2			1	1		1		1		1	22	opening
roof, beam, haze, crossbeam, principal rafter			4		1		3	1	1	1	2	2	2	1		1				1		1	1	22	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			15		8		6	5	3	4	4	5	2	1	5	8	6	10	6	9	6	6	7	116	working platform, boot board
passage			19		12		14	11	9	9	8	14	14	9	15	16	13	9	16	16	10	6	17	237	passage
building, establishment			11		10		9	10	14	7	2	7	10	4	6	8	5	4	3	7	8	6	3	134	building, establishment
other temporary buildings, establishments			7		5		4	3	3	1	5	3	3	1	4	10	3	1	1	5	8			67	other temporary buildings, establishments
explosive substance					1		2						1	1					2	1				8	explosive substance
inflammable substance			1		1																1	1		4	inflammable substance
inflammable gas														2										2	inflammable gas
harmful substance			1		1							1							1					4	harmful substance
radiation																									radiation
other hazards, harmful substances			1							1						1		3	1	2	1			10	other hazards, harmful substances

metal material			19		12		14	17	11	12	4	8	6	7	4	7	5	6	6	9	5	3	9	164	metal material
lumber, bamboo			6		2			1	2	1	1	2	1				1	1			1			19	lumber, bamboo
stone, sand, substance			32		18		20	15	22	18	9	10	8	10	7	9	3	9	4	5	5	5	3	212	stone, sand, substance
other materials			3		3		3	2	2		1		2		2			1	1	2		1		23	other materials
load			5		4		4	1	5	4	4	4	5		1	1	1		2	1	4	3	2	51	load
machine/equipment as load			3		1			1	1		1	1			1		1						1	11	machine/equipment as load
natural ground, rock			26		23		15	19	12	12	12	12	13	11	10	13	14	3	10	5	8	14	5	237	natural ground, rock
standing tree			2		5		1	2	3	1	2	3	2	2		1	2	1	2	2		1	1	33	standing tree
water								1					2		1			1		1			1	7	water
abnormal environment										1					1									2	abnormal environment
high/cold temperature environment			3		3		1					1	1		1		2			1		3	1	17	high/cold temperature environment
other environments			8		2		4	3	2	2	2	3	8	5	4	9	3	2	3	4	2	3	3	72	other environments
other causal agent			3				3	1	3				2	1	1		2		1			2	1	20	other causal agent
no causal agent			9		12		3	4	5	4	7	6	4	8	3	5	5	5	3	7	6	6	10	112	no causal agent
unclassifiable			1									1				1								3	unclassifiable
total			495		372		355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199	216	4,884	total

Workers age of fatal and non-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	total	Age
19 years old or less	4	4	2	5	7	4	5	6	3	1					5	3	1	2			2		1	55	19 years old or less
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	485	20-29
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	908	30-39
40-49	123	121	124	77	77	73	69	62	70	47	49	47	45	58	49	51	48	36	51	49	49	42	29	1,446	40-49
50-59	194	175	173	128	139	114	135	117	109	81	79	59	63	61	64	68	53	41	59	56	56	53	73	2,150	50-59
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	79	1,597	60 years old or more
total	557	510	495	371	372	319	355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199	216	6,641	total

Workers' number of workplace of fatal and non-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	total	Workers scale
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	69	2,386	9 workers or less
10-29	234	216	231	160	177	142	158	167	146	127	118	95	95	91	112	122	94	91	110	117	108	100	104	3,115	10-29
30-49	61	64	54	49	34	29	38	29	33	23	12	21	25	21	32	24	26	23	15	28	34	25	25	725	30-49
50-99	20	27	19	12	10	12	12	5	2	4	5	7	4	5	8	4	5	6	11	8	10	4	14	214	50-99
100-299	19	12	13	5	5	7	2	2	3	2	2	4	1	1	2	2		2	2	3	6	4	4	103	100-299
300 workers or more	26	25	33			1	3		2	1		2		1		2			1			1		98	300 workers or more
total	557	510	495	371	372	319	355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199	216	6,641	total

Month of fatal and non-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	total	Month
January	39	36	44	25	27	35	26	23	30	19	24	17	17	15	20	15	14	16	12	17	21	15	18	525	January
February	44	52	42	30	40	33	30	32	26	18	10	8	26	22	19	24	23	14	14	12	16	18	17	570	February
March	33	41	56	35	26	22	29	27	27	24	19	26	20	22	16	21	17	20	16	22	18	14	18	569	March
April	45	41	41	29	31	25	32	26	30	26	17	16	17	15	18	27	10	18	21	13	12	21	18	549	April
May	52	38	36	25	43	24	24	27	27	26	17	21	8	17	24	15	20	12	20	17	12	11	16	532	May
June	51	43	40	35	26	27	32	31	19	21	24	14	32	14	18	24	20	20	19	22	17	14	24	587	June
July	59	42	38	20	35	25	32	24	27	22	25	21	14	15	17	15	16	22	18	14	18	16	21	556	July
August	46	43	31	31	34	27	36	37	26	18	20	21	12	15	17	17	21	13	16	16	11	15	18	541	August
September	56	32	42	36	31	32	22	27	28	19	24	23	21	10	17	19	19	5	17	18	20	19	11	548	September
October	40	50	47	29	21	28	40	23	22	25	24	18	13	19	24	22	14	15	18	24	22	20	23	581	October
November	44	51	49	40	31	22	30	26	23	17	12	16	21	20	23	26	15	16	21	18	19	15	14	569	November
December	48	41	29	36	27	19	22	19	25	14	15	17	17	13	26	19	20	13	17	21	17	21	18	514	December
total	557	510	495	371	372	319	355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199	216	6,641	total

Prefecture of fatal and non-fatal 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	total	Prefecture
Hokkaido	49	50	38		32		35	24	23	17	28	26	26	20	26	26	24	15	22	21	24	23	26	575	Hokkaido
Aomori	8	5	11		10		5	5	3	4	6	5	4	4	2	3	1	3	2	2	4	3	5	95	Aomori
Iwate	14	5	11		8		7	7	6	7	7	6	2	3	6	6	7	7	5	2	2	4	8	130	Iwate

Miyagi	6	6	7		4		10	12	3	3	7	2	6	8	7	13	15	8	8	10	4	3	7	149	Miyagi
Akita	9	11	7		7		6	8	5		2	3	3	3	5	6	3	2	2	5	6	2	3	98	Akita
Yamagata	14	19	14		9		9	6	6	4	1	5	6	4	6	5	3	6	5		6	5	5	138	Yamagata
Fukushima	14	16	4		14		12	8	5	6	2	4	3	5	9	7	6	8	9	13	5	6	5	161	Fukushima
Ibaraki	13	13	9		11		11	6	9	9	5	8	6	8	5	4	7	5	5	7	6	10	6	163	Ibaraki
Tochigi	12	11	13		13		13	18	15	16	8	7	13	8	13	7	4	7	4	8	11	7	9	217	Tochigi
Gunma	9	8	12		10		3	4	5	6	4	2	3	2	4	1		2	3	3	1	1	1	84	Gunma
Saitama	6	11	5		3		3	1	6	2	1	4	2	1	1	2		2	7	9	6		2	74	Saitama
Chiba	6	9	3		4		4	3	6	2	3	4	6	4	4	1	4	3	4	5	5	4	4	88	Chiba
Tokyo	9	9	4		2		3	4	5	1	3	1	3	4	2	2	2	2	2	4	1	2	3	68	Tokyo
Kanagawa	6	4	8		5		1	4	3	4	1	2	1	1	2	5	2	1	2	1	1	4	2	60	Kanagawa
Niigata	14	15	14		18		10	11	10	10	3	5	5	10	10	6	6	5	5	6	5	3	17	188	Niigata
Toyama	10	6	10		2		9	1	1	4	6	4	4	1	4	4	3	1	3	3	1	1	3	81	Toyama
Ishikawa	5	2	7		7		7	1	1	1	3	1	4	1	4	2	3	1	3		1	2	3	59	Ishikawa
Fukui	7	11	1		2		2		4			1	2	2	3	1	4	3	4	2		3		52	Fukui
Yamanashi	9	3	6		7		7	3	6	4	2	4	4	3	2	4	1	1	2	3	2	3	4	80	Yamanashi
Nagano	18	9	15		11		9	4	10	9	10	6	5	2	6	5	4	3	5	8	10	8	8	165	Nagano
Gifu	20	19	14		16		15	14	12	13	5	5	5	6	3	8	7	9	5	11	6	6	4	203	Gifu
Shizuoka	16	8	8		15		8	12	14	16	16	4	6	11	5	9	4	3	10	7	6	3	7	188	Shizuoka
Aichi	12	15	18		13		7	7	6	9	6	9	8	14	8	9	2	5	4	8	7	10	5	182	Aichi
Mie	12	31	27		17		12	8	4	8	5	6	5	6	13	10	9	6	4	7	7	6	10	213	Mie
Shiga	4	4	5		6		2	3	2	1	2	3	3		3		2	3	1	1	1	2	1	49	Shiga
Kyoto	8	4	8		12		11	4	5	6	2	1	3	3	7	6	5	3	8	2	1	6	3	108	Kyoto

Osaka	5	4	7		2		3		4	4	1	3	3	3	1		6	3	6	3	2	3	1	64	Osaka
Hyogo	21	16	21		6		13	10	12	7	10	13	9	11	7	11	6	3	5	3	8	11	9	212	Hyogo
Nara	1	1			2		2	4	3	1	1		2	2	2	1	4	3			4	1		34	Nara
Wakayama	4	4	4		2		2	2	2	1	1		2	1	2	1	2	3	1	1	1	2	2	40	Wakayama
Tottori	3	4	2		5		4	1	2	1	1	2	1		1	1		2	1	2		1		34	Tottori
Shimane	9	7	4		5		7	3	7	5	5	4	5	2	2	1	3	3	1	4	2	2	3	84	Shimane
Okayama	10	12	11		9		10	10	12	7	6	4	7	6	10	9	6	7	10	5	4	6	8	169	Okayama
Hiroshima	15	17	14		8		8	6	12	3	6	3	5	3	8	7	6	2	7	8	6	5	5	154	Hiroshima
Yamaguchi	5	7	7		7		3	8	4	1	4	5	2	4	3	6	5	3	1	2	1	3	3	84	Yamaguchi
Tokushima	4	8	4		3		1	5	2	1	4	1	1	2	1	3	2	2	5	2	3	3	2	59	Tokushima
Kagawa	18	7	9		9		11	7	7	7	5	3		1	2	4	2	6	4	3	4	3	1	113	Kagawa
Ehime	14	11	15		16		17	15	14	8	11	11	13	6	13	13	9	4	4	6	3	4	4	211	Ehime
Kochi	9	1	7		2		3	2	4	3	3	3	1	1		1	1	1	2	1	3	3	1	52	Kochi
Fukuoka	18	12	14		7		4	13	6	8	9	6	8	4	5	6	6	6	4	5	5	3	7	156	Fukuoka
Saga	6	3	7		3		1	6	2	4	2	4	1	2	1	3	4	1	1	5	2	2	4	64	Saga
Nagasaki	61	47	50		3		7	6	7	5	5	2	5	1	4	6	2	2	4	2	7	5	2	233	Nagasaki
Kumamoto	21	24	12		10		13	18	8	8	10	10	5	8	5	5	6	7	7	5	12	7	3	204	Kumamoto
Oita	10	9	5		5		9	9	6	6	2	3	3	1	3	6	4	6	1	2	2	3	2	97	Oita
Miyazaki	6	4	14		2		4	7	4	3	4	6	2	1	3	3	4	1	4	1	3	2	5	83	Miyazaki
Kagoshima	7	8	7		8		10	11	15	4	3	6	5	4	5	4	3	5	6	5	2	3	2	123	Kagoshima
Okinawa			2				2	1	2			1			1	1			1	1			1	13	Okinawa
total	557	510	495		372		355	322	310	249	231	218	218	197	239	244	209	184	209	214	203	199	216	5,951	total

[illegible]

injury to the sole of the foot																										injury to the sole of the foot
drown		1			1	2		1				1		1	1		1								9	drown
contact to high/low- temperature		1														1									2	contact to high/low- temperature
contact to harmful substance										1															1	contact to harmful substance
electric shock		1	1			1																			3	electric shock
explosion	1				1								1						1						4	explosion
burst																										burst
fire					3										1										4	fire
traffic accident (public road)	1	1		1	1	1			1			1				2				1					10	traffic accident (public road)
traffic accident (others)																										traffic accident (others)
reaction to motion/improper motion																										reaction to motion/improper motion
others		1							1				1				1								4	others
unclassifiable																										unclassifiable
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8	11	289	total	

Causal agents (large) of fatal accidents in mining in 1999-2021

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (L) agents
machine	8	6	10	6	2	5	4	4	4	3	3	1	6	1	3	6	2	1	3		2	2	5	87	machine
crane, conveying machine	5	7	3	5	4	4	4	7	7	3	5	3	2	2	2	2	4	2	5		5	3	5	89	crane, conveying machine
other equipment		4	4		5	2										1	1							17	other equipment
temporary buildings, establishments	1	1	1	1		1	2						2	1	1	2	1		2		1		1	18	temporary buildings, establishments
substance, material	3	2	1		1		2	2	1	1		1		1				2	1	1		2		21	substance, material
load																									load
environment	7	6	5	5	2	4	4	3		1	1		3	1	2	2	2	1	2	1	2	1		55	environment
others									1									1						2	others
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8	11	289	total

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

[illegible]

engine																									engine
power transmission mechanism																									power transmission mechanism
woodworking machine																									woodworking machine
construction machine	7	2	7	6	1	5	4	2	4	3	3	1	6	1	2	5	2	1	3		2	2	4	73	construction machine
metal manufacturing machine																									metal manufacturing machine
general machine	1	4	3		1			2							1	1							1	14	general machine
mobile silviculture machine																									mobile silviculture machine
crane				1																				1	crane
conveying machine	4	7	3	4	3	3	4	7	7	3	5	3	2	2	2	2	4	2	5		5	3	3	83	conveying machine
vehicle	1				1	1																	2	5	vehicle
pressure vessel																									pressure vessel
chemical facilities																									chemical facilities
welding equipment			1													1								2	welding equipment

[illegible]

total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8	11	289	total
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Causal agents (small) of fatal accidents in mining in 1999-2021

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

hand tool																									hand tool
ladder		1														1								2	ladder
slinging tool		1	2																					3	slinging tool
other tools						1																		1	other tools
other equipment, facilities		1	1		5																			7	other equipment, facilities
scaffolding																									scaffolding
timbering																									timbering
stairs, landing stage																			1					1	stairs, landing stage
opening						1										1								2	opening
roof, beam, haze, crossbeam, principal rafter																									roof, beam, haze, crossbeam, principal rafter
working platform, boot board							1								1	1								3	working platform, boot board
passage	1			1											1								1	4	passage
building, establishment		1	1										2	1					1		1			7	building, establishment
other temporary buildings, establishments							1																	1	other temporary buildings, establishments
explosive substance	1						1												1	1				4	explosive substance
inflammable substance																									inflammable substance

[illegible]

no causal agent									1									1						2	no causal agent
unclassifiable																									unclassifiable
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8	11	289	total

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	total	Age
19 years old or less								2																2	19 years old or less
20-29	1	2	2		3	1		2	1				2	1	1	2						1		19	20-29
30-39	3	2	2	2		4	2	2	1	1	2					1		1		1	1			25	30-39
40-49	2	6	3	8	5		4	1	1	2	3		4	1	1		1	1	2		1	2	2	50	40-49
50-59	11	11	9	4	4	7	7	8	7	3	1	2	2	2	1	4	5	3	4		3	1	3	102	50-59
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	91	60 years old or more
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8	11	289	total

Workers' number of workplace of fatal accidents in mining in 1999-2021

[illegible]

100-299		2	1			2																		5	100-299
300 workers or more		1																						1	300 workers or more
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8	11	289	total

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	total	Month
January	3	4	3	1		2	2	2			1	1			2			1	1		1		1	25	January
February		3	4	2	3	1	3						1		1	1	2	1	2		1	1		26	February
March		1	3	2		1				1	1		2	1	1	2	1				2			18	March
April	2	3	1	1	1	2	2	4	2			1		1		2	1	1	2			1	1	28	April
May	2			1	3	2	2		2	2		1	1	1		1			1			1		20	May
June	5	2	1		1		1	1	1	2	4		3	1			1	1	2			1	2	29	June
July	1		2	1	2		2	3	2	1	1	1	1	1	1	1	2		1		1			24	July
August	3	2	1	2	1	4		1	1	1			1			1	1	1		1			2	23	August
September	2	1	2	2		2	2	1	1				1				2		1	1	2	1		21	September
October	1	2	4	1	1	1	1	3	1			1			2	1			2		3		2	26	October
November	3	4	2	3	1	1	1		1				3			3		2	1			2	2	29	November
December	2	4	1	1	1			1	2	1	2			1	1	1						1	1	20	December
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8	11	289	total

Prefecture of fatal accidents in mining in 1999-2021

[illegible]

Shizuoka		2		1		1	1			1								1		1	1		9	Shizuoka	
Aichi	1		1	1			1			1		1	1		1						1		10	Aichi	
Mie	1		1									1	1		1	2							7	Mie	
Shiga	1	1																					2	Shiga	
Kyoto					2		1	1	1		1					2						1	1	10	Kyoto
Osaka												1	1			1		1						4	Osaka
Hyogo			2			1			1		1	1					1							7	Hyogo
Nara							1																	1	Nara
Wakayama							1																	1	Wakayama
Tottori					1		1																	2	Tottori
Shimane		1			1					1					1									4	Shimane
Okayama	1		2															3						6	Okayama
Hiroshima	3			1				2			1				1						1	1		10	Hiroshima
Yamaguchi		1											1				1	1				1		5	Yamaguchi
Tokushima				1			1																	2	Tokushima
Kagawa						1		1						1										3	Kagawa
Ehime			1	1			1								1	1					1			6	Ehime
Kochi			2			2	1				1										1			7	Kochi
Fukuoka			4	1		1		2															1	9	Fukuoka
Saga		1	1																				1	3	Saga
Nagasaki		2						1					1					1	1	1				7	Nagasaki
Kumamoto	1	2		1		1				1	1									1				8	Kumamoto
Oita	3			1												1				1				6	Oita

Miyazaki	1		1			1		1							1						1		6	Miyazaki	
Kagoshima		1		2		1		1	2			1											8	Kagoshima	
Okinawa																								Okinawa	
total	24	26	24	17	14	16	16	16	13	8	9	5	13	6	8	13	10	7	13	2	10	8	11	289	total

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

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