Fatal and non-fatal accidents in other quarrying in Japan in 1999-2021

other quarrying industry Code No.020209

Type of accidents in other quarrying 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	10	7	10	10	8	11	8	8	4	10	5	8	4	5	3	7	5	6	4	4	6	5	12	160	fall from height
falling to same level	1	6	4	1	3		2	2	3	1	2	4	4	4		2		1	4	3	2		2	51	falling to same level
crash	3	6		4	1	2	1	1	1			2			3		2	1	2	2	1		2	34	crash
struck by flying or falling object	2	8	5	3	3	3	1	4	6	6	4		2	2	2		1	1		1	1		2	57	struck by flying or falling object
collapse	4	1	2	1			1	2	2	2		1		1			1			2	1			21	collapse
crashed by	3			3	1	4	1	4	2	2		4				1			1	1			3	30	crashed by
caught in/between	8	10	8	8	8	7	13	9	5	3	3	4	5	2	2	6	8	5	2	3	1		3	123	caught in/between
cut		2	3	2	1	3			1	1						1			1	2		3		20	cut
injury to the sole of the foot																									injury to the sole
drown																									drown
contact to high/low- temperature			1	1					1			1										1		5	contact to high/low- temperature

contact to harmful substance	2															1								3	contact to harmful substance
electric shock																									electric shock
explosion																									explosion
burst																									burst
fire																									fire
traffic accident (public road)	1	4	1	1	1	1	2	3	1								2	1	1		1			20	traffic accident (public road)
traffic accident (others)	1																							1	traffic accident (others)
reaction to motion/improper motion	4		1	3	1		2		1	1	1		3	2	1			1	3		1		1	26	reaction to motion/improper motion
others		2			1													1						4	others
unclassifiable																1								1	unclassifiable
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	556	total

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

Causal (L) agents	1000	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2010	2020	2021		Causal (L)
Causar (L) agents		2000	2001	2002	2003	2004	2003	2000	2007	2000	2007	2010	2011	2012	2013	2014	2013	2010	2017	2010	2017	2020	2021	1 1	agents
machine	8	11	10	6	5	7	7	6	8	5	3	7	3	1	3	4	5	5		4	1	5	4	118	machine
crane, conveying																									crane,

machine	12	16	10	16	12	11	12	18	6	8	4	6	5	4	5	7	8	5	5	4	4	2	14	194	conveying
macrime																									machine
				_				_																20	other
other equipment	2	3		5		2			2		2	I	I	2		ľ	3	3		2	2		I	39	equipment
																									temporary
temporary buildings, establishments	8	8	9	6	3	6	5	3	3	4	1	4	3	3	2	4	1	3	6	5	4	1	3	95	buildings,
establishments																									establishments
								4		_														46	substance,
substance, material	2	3	3		2	4	2	4	4	5	3	3	2	2					I	I		l I	2	46	material
load	2			1	1		1		1										1		1			8	load
environment	3	4	2	2	2	1	2	1	1	2	1	2	1	2		1	2		1	1	1		1	33	environment
others	2	1			2		1		2	1	1	1	3	2		1		1	3	1	1			23	others
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	556	total

Causal agents (middle) of fatal and non-fatal accidents in other quarrying in 1999-2021

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	2021	total	Causal (M) agents
engine																									engine
power transmission mechanism		1		1			1	1	1							1	1	1						8	power transmission mechanism
woodworking machine		1	2			2			1											1		1		8	woodworking machine

construction machine	7	6	7	2	3	2	3	3	3	3	2	3	2	1	2	2	2	3		2	1	2	3	64	construction machine
metal manufacturing machine				1	1												1							3	metal manufacturing machine
general machine	1	3	1	2	1	3	3	2	3	2	1	4	1		1	1	1	1		1		2	1	35	general machine
mobile silviculture machine																									mobile silviculture machine
crane	1	1	1	1				1	1							1							1	8	crane
conveying machine	10	14	8	15	12	11	11	15	5	8	4	5	5	4	5	6	8	4	4	4	3	2	9	172	conveying machine
vehicle	1	1	1				1	2				1						1	1		1		4	14	vehicle
pressure vessel																									pressure vessel
chemical facilities																									chemical facilities
welding equipment																									welding equipment
kiln, caldron																									kiln, caldron
electric equipment																									electric equipment
human power machine, tools		2		1	1	1										1		2		1	1			10	human power machine, tools

tools	2		1	3		1		1		1		1		2	1		2		1	1	1		1	19	tools
other equipments,		1		1			1		2		2		1				1	1						10	other equipments, facilities
temporary buildings, establishments	8	8	9	6	3	6	5	3	3	4	1	4	3	3	2	4	1	3	6	5	4	1	3	95	temporary buildings, establishments
hazards, harmful substances						1										1						1		3	hazards, harmful substances
materials	2	3	3	1	2	3	2	4	4	5	3	3	2	2					1	1			2	43	materials
load	2			1	1		1		1										1		1			8	load
natural environment	3	4	2	2	2	1	2	1	1	2	1	2	1	2		1	2		1	1	1		1	33	natural environment
other causal agent	2								1				1						1					5	other causal agent
no causal agent		1			2		1		1	1	1	1	2	2				1	2	1	1			17	no causal agent
unclassifiable																1								1	unclassifiable
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	556	total

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

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	2021	total	Causal (S) agents

engine																				engine
power transmission mechanism				1	1	1						1	1	1					6	power transmission mechanism
circular sawing machine		1													1				2	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																				chamfering machine, router, woodworking
milling machine		1															1		2	milling machine
other woodworking						1													1	other woodworking machines
leveling, transporting or loading machine		4	1	1			1	1	1	1				1		1			12	leveling, transporting or loading machine
excavating machine		3	1	2	3	3	2	1	2	1	2	1	2	2	1		1	3	30	excavating machine
foundation work																				foundation work

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hardening machine																			hardening machine
demolition machine			1										1			1	1	4	demolition machine
vehicle for high lift work																			vehicle for high lift work
other construction											1							1	other construction
machines																			machines
lathe																			lathe
drill press, milling														1				1	drill press, milling
machine														ľ				Ľ	machine
grinding machine,			1																grinding machine,
buffing machine			ľ																buffing machine
power press																			power press
forging pressure																			forging pressure
hammer																			hammer
shearing machine																			shearing machine
other metal																			other metal
manufacturing																			manufacturing
machines																			machines
centrifugal machine																			centrifugal machine
mixer, grinder		1			1	1	3	1	1			1						9	mixer, grinder
roll machine (except																			roll machine (except
printingroll																			printingroll
machine)																			machine)
injection molding																			injection molding

machine																		machine
food manufacturing machine															1		1	food manufacturing machine
printing machine																		printing machine
industrial robot								1									1	industrial robot
other general power machines			1	2	1		1	3	1		1	1	1	1	1	1	15	other general power machines
felling machine																		felling machine
mobile logging machine																		mobile logging machine
skyline yarding machine																		skyline yarding machine
other mobile																		other mobile
silviculture machine																		silviculture machine
crane					1												1	crane
mobile crane						1					1					1	3	mobile crane
derrick crane																		derrick crane
elevator, lift																		elevator, lift
cargo lifting																		cargo lifting appliance
gondola																		gondola
lumberyard																		lumberyard
equipment, logging																		equipment, logging

cableway																						cableway
simple skyline yarding equipment																						simple skyline yarding equipment
other powered		1																			1	other powered
truck		4	4	4	6	2	5	2	2	2	1	4	3	5	1	1		2	2	6	56	truck
forklift		1	1											1						1	4	forklift
railway equipment																						railway equipment
conveyor		3	7	7	9	2	3	2	3	3	3	1	3	2	3	2	4	1		1	59	conveyor
loader																1				1	2	loader
straddle carrier																						straddle carrier
rough terrain hauler																						rough terrain hauler
other powered conveying machines						1															1	other powered conveying machines
cars, bus,		1		1	2				1						1	1		1		3	11	cars, bus, motorcycle
railway vehicle																						railway vehicle
other vehicles																				1	1	other vehicles
boiler																						boiler
pressure vessel																						pressure vessel
other pressure vessels																						other pressure vessels
chemical facilities																						chemical facilities

gas welding																		gas welding
equipment																		equipment
arc welding																		arc welding
equipment																		equipment
other welding																		other welding
equipment																		equipment
kiln, caldron																		kiln, caldron
industrial dryer																		industrial dryer
other kiln, caldron																		other kiln, caldron
transmission																		transmission
electric power																		electric power
facilities																		facilities
other electrical																		other electrical
equipment																		equipment
human power			1									1		1			3	human power
cranes																		cranes
human power																		human power
hauling equipment																		hauling equipment
human power																		human power
machine																		machine
hand tool										1		1			1		3	hand tool
ladder						1		2	1		1			1	1	1	8	ladder
slinging tool		1															1	slinging tool
other tools					1		1				1		1				4	other tools

other equipment,				1		2		2		1				1	1						8	other equipment,
scaffolding		2				1												1			4	scaffolding
timbering																				1	1	timbering
stairs, landing stage				3	1	1		1				1				1	1				9	stairs, landing stage
opening		1					1														2	opening
roof, beam, haze,																						roof, beam, haze,
crossbeam,													1								1	crossbeam,
principal rafter																						principal rafter
working platform, boot board		3	1							1		1	1		1	1		1			10	working platform, boot board
passage		1	1		2	1	1		2		3		1	1	1	4	2	1	1	1	23	passage
building, establishment		1	1	1			2		1	1					1		1	1		1	11	building, establishment
other temporary buildings, establishments		1		1					1	1			1				1				6	other temporary buildings, establishments
explosive substance																						explosive substance
inflammable substance																			1		1	inflammable substance
inflammable gas																						inflammable gas
harmful substance																						harmful substance
radiation																						radiation
other hazards,																						other hazards,

harmful substances													1								1	harmful substances
metal material			1	1	3		1	2												2	10	metal material
lumber, bamboo		1					1		1												3	lumber, bamboo
stone, sand, substance		2		1	1	4	3	1	2	1	2					1	1				19	stone, sand, substance
other materials			1							1											2	other materials
load			1	1		1										1		1			5	load
machine/equipment as load																						machine/equipment as load
natural ground, rock		1	1		1	1	2	1		1	1			1				1		1	12	natural ground, rock
standing tree			1						1					1		1	1				5	standing tree
water																						water
abnormal environment																						abnormal environment
high/cold temperature environment																						high/cold temperature environment
other environments		1		2					1		1		1								6	other environments
other causal agent						1				1						1					3	other causal agent
no causal agent			2	1		1	1	1	1	2	2				1	2	1	1			16	no causal agent
unclassifiable													1								1	unclassifiable
total		35	28	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	403	total

Workers age of fatal and non-fatal accidents in other quarrying 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				1		1		2	1							1					1			7	19 years old or less
20-29	10	5	8	2	3	2	2		3	3	2			1		1	1	3		3		1	1	51	20-29
30-39	5	4	7	4	3	8	6	6	4	2	1	2	6	3		2	4	2	3	2	1	1	1	77	30-39
40-49	7	13	6	6	7	8	6	5	4	8	4	6	5	4	3	5	5	1	6	2	2	3	2	118	40-49
50-59	12	12	9	14	10	9	9	11	9	9	5	9	3	6	4	5	3	7	3	7	4		8	168	50-59
60 years old or	5	12	5	10	5	3	8	g	6	4	3	7	4	2	4	5	6	4	6	4	6	4	13	135	60 years old or
more		12																						ll l	more
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	556	total

Workers' number of workplace of fatal and non-fatal accidents in other quarrying 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	16	14	14	14	16	12	12	10	6	10	7	8	8	8	3	8	9	6	4	7	3	3	7	205	9 workers or less
10-29	17	21	17	12	10	16	12	17	15	12	6	12	8	5	7	6	7	3	9	9	6	5	12	244	10-29
30-49	5	5	2	8	1	2	4	5	2	3		2	1	3		4	2	5	2		2		2	60	30-49
50-99	1	6	1	3	1		3	1	1	1	1	1	1		1		1	2	1	2			4	32	50-99
100-299			1			1			3		1	1				1		1	2		3	1		15	100-299
300 workers or																									300 workers or
more																									more
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	556	total

Month of fatal and non-fatal accidents in other quarrying 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	2	3	2	2	2	2	2	1		1	1	1	1	1		3	2	1			1		2	30	January
February	3	4	3	4	2	6	3	3	3		1	1	2	3			3	1	2	1	2		3	50	February
March	1	8	6	4	5	1	2	4	5	2	5	2		2		1	2	1	2		2	1	3	59	March
April	2	1	4	3	2	4	5	1	3	4	1	2	3	1		2		4	2	1			1	46	April
May	2	2	3	4	3	3	2	3	3	2		2	1	2	2		1	4	3				1	43	May
June	7	5	2	1	3	4		7	4	3	1	2	3	2		1	2	2	1		2		5	57	June
July	2	1	2	2	1	1			4	3	1	1			1	1	1			3	1	1	2	28	July
August		6	2	5	1	1	5	4	1	1	1	1	1	1	2	2	2	1	2	1		3	4	47	August
September	6	1	5	9	2	3	3	4	1	3	1	5	1		3	4	2		1	2	3	1	1	61	September
October	3	5	2	1	2	2	3	3	2	6	1	3	2	1	2		2	2		3	1	2	1	49	October
November	5	8	4	1	1	1	3	1		1	1	2	1	3		3	2	1	1	2	2		1	44	November
December	6	2		1	4	3	3	2	1		1	2	3		1	2			4	5		1	1	42	December
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	556	total

Prefecture of fatal and non-fatal accidents in other quarrying in 1999-2021

Hokkaido 1 2 2 1 1 3 2 1 2 2 1 1 2 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 2 1	
	Hokkaido
Aomori 1 1 1 1 4	Aomori

lwate	1	1	2		1	2	1	2		2	1	1		1	1			1			1	18	lwate
Miyagi					1	1	2				1			2	3	3		2	1		1	17	Miyagi
Akita	2		1		1										1							5	Akita
Yamagata	2	5		1	1	1	2			1	2					1	1		1	1	2	21	Yamagata
Fukushima		1	1	2	1									1		3	2	1			1	13	Fukushima
Ibaraki		1					1			1				1			1					5	Ibaraki
Tochigi	2	3	5	2	1	3	1	2	3	2		2	1	2		2		1	5		2	39	Tochigi
Gunma	3	5	1	2	1	1	2	2								1					1	19	Gunma
Saitama		3		1						2				1		1						8	Saitama
Chiba		3	1	1		1	3			2	1							1		1	2	16	Chiba
Tokyo		1	1	1														1				4	Tokyo
Kanagawa	1		1			1	1															4	Kanagawa
Niigata	1	3	2	1	1	2		1				2			1		1				5	20	Niigata
Toyama	3		2		1			1			1		1				1					10	Toyama
Ishikawa	1			1	1	1																4	Ishikawa
Fukui	1	4																				5	Fukui
Yamanashi	1			1					1		2										2	7	Yamanashi
Nagano	1	2	3	1	2		3	3	1	2		1	1			1		1			2	24	Nagano
Gifu		2	1	1		1	1	3	1			1		1				1				13	Gifu
Shizuoka	1			1	1				2	1				1			1	3	1		1	13	Shizuoka
Aichi	2	2																				4	Aichi
Mie		3	3	1	3			1	1	1		1		1	1				1			17	Mie
Shiga				2				1	1											1		5	Shiga

Kyoto	3		1					1			1			1								7	Kyoto
Osaka							2								1		1					4	Osaka
Hyogo	3				1		1					1	2	2	2	1	1	1	2			17	Hyogo
Nara						2	1				2		1		2							8	Nara
Wakayama											1											1	Wakayama
Tottori		1		1	2					1								1				6	Tottori
Shimane	1			1	1	2	1	2	1	2	2		1	1	2				1	2	1	21	Shimane
Okayama	1				1												1			1		4	Okayama
Hiroshima		1			1		1									1	2	1	1	2		10	Hiroshima
Yamaguchi				1																		1	Yamaguchi
Tokushima																							Tokushima
Kagawa												1				1	2					4	Kagawa
Ehime			1	1	5	2	1	3	1	1			1									16	Ehime
Kochi			2		1	2			1													6	Kochi
Fukuoka	1		1	1								1					1			1		6	Fukuoka
Saga		1												1								2	Saga
Nagasaki						1	1				1	1										4	Nagasaki
Kumamoto	2			2		3	1	1				1		1	2		1		1			15	Kumamoto
Oita	3	1			2	2					1										1	10	Oita
Miyazaki	1		2			1				2	1										2	9	Miyazaki
Kagoshima	1	1	2	1		1		1	1	1		1	2		1		1	1				15	Kagoshima
Okinawa														1								1	Okinawa

total	39 46	35	28	31	33 2	7 26	15	24	18	16	11	19	19	17	18	18	14	9	25	488	total	
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Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. Data of 2011 year include fatal and non-fatal 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/2021e_industry.html

Fatal accidents in other quarrying in Japan in 1999-2021

other quarrying industry Code No.020209

Type of fatal accidents in other quarrying 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	1	1	1	1															1				2	7	fall from height
falling to same level				1										1							1			3	falling to same
crash																									crash
struck by flying or falling object			1																					1	struck by flying or falling object
collapse	2	2															1							5	collapse
crashed by							1												1					2	crashed by
																									caught

caught in/between	1				1									1	3	in/between
cut																cut
injury to the sole of																injury to the sole
the foot																of the foot
drown																drown
contact to high/low-																contact to
temperature																high/low-
•																temperature
contact to harmful																contact to
substance																harmful
																substance
electric shock																electric shock
explosion																explosion
burst																burst
fire																fire
traffic accident (public	1									1					2	traffic accident
road)	I									I						(public road)
traffic accident																traffic accident
(others)																(others)
reaction to																reaction to
motion/improper																motion/improper
motion																motion
others		1									1				2	others
unclassifiable																unclassifiable

total	5	4	2	2		2				1		2	1	2	1	3	25	total

Causal agents (large) of fatal accidents in other quarrying 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	2			1			2							1							1			7	machine
crane, conveying machine	1	1															1						3	6	crane, conveying machine
other equipment			1																					1	other equipment
temporary buildings, establishments		1		1															1						temporary buildings, establishments
substance, material																									substance, material
load																									load
environment	2	2	1														1		1					7	environment
others																		1						1	others
total	5	4	2	2			2							1			2	1	2		1		3	25	total

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

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	2021	total	Causal (M) agents
engine																									engine
power transmission mechanism																									power transmission mechanism
woodworking machine																									woodworking machine
construction machine	2			1			2							1							1			7	construction machine
metal manufacturing machine																									metal manufacturing machine
general machine																									general machine
mobile silviculture machine																									mobile silviculture machine
crane																									crane
conveying machine	1	1															1						1	∥4	conveying machine
vehicle																							2	2	vehicle
pressure vessel																									pressure vessel
chemical facilities																									chemical

																facilities
welding equipment																welding
weiding equipment																equipment
kiln, caldron																kiln, caldron
electric equipment																electric
																equipment
human power machine,																human power
tools																machine, tools
tools			1												1	tools
other equipments,																other
facilities																equipments,
																facilities
temporary buildings,																temporary
establishments		1		1								1			3	buildings,
																establishments
hazards, harmful																hazards, harmful
substances																substances
materials																materials
load																
load																load
natural environment	2	2	1								1	1			7	natural environment
																1
other causal agent																other causal agent
																agent

no causal agent													1				1	no causal agent
unclassifiable																		unclassifiable
total	5	4	2	2		2				1		2	1	2	1	3	25	total

Causal agents (small) of fatal accidents in other quarrying in 1999-2021

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	2021	total	Causal (S) agents
engine																									engine
power transmission																									power transmission
mechanism																									mechanism
circular sawing																									circular sawing
machine																									machine
band sawing																									band sawing
machine																									machine
wood planer																									wood planer
machine																									machine
hollow chisel																									hollow chisel
mortiser, wood																									mortiser, wood
borer																									borer
chamfering																									chamfering
machine, router,																									machine, router,
woodworking																									woodworking
milling machine																									milling machine

chain saw																chain saw
other woodworking machines																other woodworking machines
leveling, transporting or loading machine	1		1										1		3	leveling, transporting or loading machine
excavating machine	1				2										3	excavating machine
foundation work machine																foundation work machine
hardening machine																hardening machine
demolition machine																demolition machine
vehicle for high lift work																vehicle for high lift work
other construction machines									1						1	other construction
lathe																lathe
drill press, milling machine																drill press, milling machine
grinding machine, buffing machine																grinding machine, buffing machine
power press																power press
forging pressure hammer																forging pressure hammer
shearing machine																shearing machine

other metal													other metal
manufacturing													manufacturing
machines													machines
centrifugal machine													centrifugal machine
mixer, grinder													mixer, grinder
roll machine (except													roll machine (except
printingroll													printingroll
machine)													machine)
injection molding													injection molding
machine													machine
food manufacturing													food manufacturing
machine													machine
printing machine													printing machine
industrial robot													industrial robot
other general													other general
power machines													power machines
felling machine													felling machine
mobile logging													mobile logging
machine													machine
skyline yarding													skyline yarding
machine													machine
other mobile													other mobile
silviculture machine													silviculture machine
crane													crane

mobile crane															mobile crane
derrick crane															derrick crane
elevator, lift															elevator, lift
cargo lifting															cargo lifting
appliance															appliance
gondola															gondola
lumberyard															lumberyard
equipment, logging															equipment, logging
cableway															cableway
simple skyline															simple skyline
yarding equipment															yarding equipment
other powered															other powered
crane															crane
truck	1	1								1			1	4	truck
forklift															forklift
railway equipment															railway equipment
conveyor															conveyor
loader															loader
straddle carrier															straddle carrier
rough terrain hauler															rough terrain hauler
other powered															other powered
conveying machines															conveying machines
cars, bus,													2	2	cars, bus,
motorcycle															motorcycle

1	 												
railway vehicle													railway vehicle
other vehicles													other vehicles
boiler													boiler
pressure vessel													pressure vessel
other pressure													other pressure
vessels													vessels
chemical facilities													chemical facilities
gas welding													gas welding
equipment													equipment
arc welding													arc welding
equipment													equipment
other welding													other welding
equipment													equipment
kiln, caldron													kiln, caldron
industrial dryer													industrial dryer
other kiln, caldron													other kiln, caldron
transmission													transmission
electric power													electric power
facilities													facilities
other electrical													other electrical
equipment													equipment
human power													human power
cranes													cranes

human power															human power
hauling equipment															hauling equipment
human power															human power
machine															machine
hand tool															hand tool
ladder															ladder
slinging tool		1												1	slinging tool
other tools															other tools
other equipment,															other equipment,
facilities															facilities
scaffolding															scaffolding
timbering															timbering
stairs, landing stage											1			1	stairs, landing stage
opening															opening
roof, beam, haze,															roof, beam, haze,
crossbeam,															crossbeam,
principal rafter															principal rafter
working platform,															working platform,
boot board															boot board
passage			1											1	passage
building,	1													1	building,
establishment															establishment
other temporary															other temporary
buildings,															buildings,

establishments															establishments
explosive substance															explosive substance
inflammable															inflammable
substance															substance
inflammable gas															inflammable gas
harmful substance															harmful substance
radiation															radiation
other hazards,															other hazards,
harmful substances															harmful substances
metal material															metal material
lumber, bamboo															lumber, bamboo
stone, sand,															stone, sand,
substance															substance
other materials															other materials
load															load
machine/equipment															machine/equipment
as load															as load
natural ground,	2	2	1											5	natural ground,
rock														11 -	rock
standing tree										1	1			2	standing tree
water															water
abnormal															abnormal
environment															environment
high/cold															high/cold

temperature																		temperature
environment																		environment
other environments																		other environments
other causal agent																		other causal agent
no causal agent													1				1	no causal agent
unclassifiable																		unclassifiable
total	5	4	2	2		2				1		2	1	2	1	3	25	total

Workers age of fatal accidents in other quarrying 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																									19 years old or less
20-29																									20-29
30-39	2						1																	3	30-39
40-49		1		1																			1	3	40-49
50-59	2	1	1				1							1			1	1			1		1	10	50-59
60 years old or	1	2	1	1													1		2				1	9	60 years old or
more	•		•	•													•							-	more
total	5	4	2	2			2							1			2	1	2		1		3	25	total

Workers' number of workplace of fatal accidents in other quarrying 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	7/17(1	2020	total	Workers scale

9 workers or less	2	3				2						1	1	2			11	9 workers or less
10-29	3	1	1	2						1		1				2	11	10-29
30-49															1		1	30-49
50-99																1	1	50-99
100-299			1														1	100-299
300 workers or																		300 workers or
more																		more
total	5	4	2	2		2				1		2	1	2	1	3	25	total

Month of fatal accidents in other quarrying 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																									January
February				1			1										1							3	February
March			1	1										1							1			4	March
April	1	2																	1					4	April
May							1																	1	May
June	2	1																	1					4	June
July																	1							1	July
August		1																1					2	4	August
September	2																							2	September
October			1																				1	2	October
November																									November

Decembe	r																	December
total	5	4	2	2		2				1		2	1	2	1		25	total

Prefecture of fatal accidents in other quarrying 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																	1		1					2	Hokkaido
Aomori																									Aomori
lwate																									lwate
Miyagi																	1							1	Miyagi
Akita	2																							2	Akita
Yamagata																									Yamagata
Fukushima		1																						1	Fukushima
Ibaraki																			1					1	Ibaraki
Tochigi																					1		1	2	Tochigi
Gunma																									Gunma
Saitama																									Saitama
Chiba		1																						1	Chiba
Tokyo																									Tokyo
Kanagawa																									Kanagawa
Niigata			1																				2	3	Niigata
Toyama				1																				1	Toyama
Ishikawa																									Ishikawa

Fukui	1													1	Fukui
Yamanashi															Yamanash
Nagano															Nagano
Gifu															Gifu
Shizuoka															Shizuoka
Aichi			1											1	Aichi
Mie															Mie
Shiga															Shiga
Kyoto															Kyoto
Osaka															Osaka
Hyogo											1			1	Hyogo
Nara															Nara
Wakayama															Wakayama
Tottori					1									1	Tottori
Shimane															Shimane
Okayama															Okayama
Hiroshima															Hiroshima
Yamaguchi															Yamaguch
Tokushima					1									1	Tokushima
Kagawa									1					1	Kagawa
Ehime															Ehime
Kochi															Kochi
Fukuoka		1												1	Fukuoka

Saga																		Saga
Nagasaki																		Nagasaki
Kumamoto		1															1	Kumamoto
Oita	2																2	Oita
Miyazaki	1																1	Miyazaki
Kagoshima																		Kagoshima
Okinawa																		Okinawa
total	5	4	2	2		2				1		2	1	2	1	3	25	total

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

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