

Fatal and non-fatal accidents in other quarrying in Japan in 1999-2022

other quarrying industry Code No.020209

Type of accidents in other quarrying in 1999-2022

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	2022	total
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	1	161
falling to same level	1	6	4	1	3		2	2	3	1	2	4	4	4		2		1	4	3	2		2	6	57
crash	3	6		4	1	2	1	1	1			2			3		2	1	2	2	1		2		34
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	4	61
collapse	4	1	2	1			1	2	2	2		1		1			1			2	1				21
crashed by	3			3	1	4	1	4	2	2		4				1			1	1			3		30
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	5	128
cut		2	3	2	1	3			1	1						1			1	2		3		1	21
injury to the sole of the foot																									
drown																									
contact to high/low-			1	1					1			1											1		5

temperature																									
contact to harmful substance	2														1									3	
electric shock																									
explosion																									
burst																									
fire																									
traffic accident (public road)	1	4	1	1	1	1	2	3	1							2	1	1		1				20	
traffic accident (others)	1																							1	
reaction to motion/improper motion	4		1	3	1		2		1	1	1		3	2	1			1	3		1		1	2	28
others		2			1													1							4
unclassifiable																1									1
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	19	575

Causal agents (large) of fatal and non-fatal accidents in other quarrying in 1999-2022

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	2022	total
machine	8	11	10	6	5	7	7	6	8	5	3	7	3	1	3	4	5	5		4	1	5	4	4	122

crane, conveying machine	12	16	10	16	12	11	12	18	6	8	4	6	5	4	5	7	8	5	5	4	4	2	14	4	198
other equipment	2	3	1	5	1	2	1	1	2	1	2	1	1	2	1	1	3	3	1	2	2		1		39
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	4	99
substance, material	2	3	3	1	2	4	2	4	4	5	3	3	2	2		1			1	1		1	2	4	50
load	2			1	1		1		1										1		1				8
environment	3	4	2	2	2	1	2	1	1	2	1	2	1	2		1	2		1	1	1		1	2	35
others	2	1			2		1		2	1	1	1	3	2		1		1	3	1	1			1	24
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	19	575

Causal agents (middle) of fatal and non-fatal accidents in other quarrying in 1999-2022

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	2022	total	
engine																										
power transmission mechanism		1		1			1	1	1							1	1	1								8
woodworking machine		1	2			2			1											1		1				8



other equipments, facilities		1		1				1		2		2				1		1						10	
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	4	99
hazards, harmful substances						1										1						1			3
materials	2	3	3	1	2	3	2	4	4	5	3	3	2	2					1	1			2	4	47
load	2			1	1		1		1										1		1				8
natural environment	3	4	2	2	2	1	2	1	1	2	1	2	1	2		1	2		1	1	1		1	2	35
other causal agent	2								1				1						1						5
no causal agent		1			2		1		1	1	1	1	2	2				1	2	1	1			1	18
unclassifiable																1									1
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	19	575

Causal agents (small) of fatal and non-fatal accidents in other quarrying in 1999-2022

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	2022	total
engine																									
power transmission mechanism							1	1	1							1	1	1							6













hauling equipment																									
human power machine																									
hand tool														1		1			1					3	
ladder									1				2	1		1			1	1		1		8	
slinging tool			1																					1	
other tools							1				1					1		1						4	
other equipment, facilities							1		2		2					1	1							8	
scaffolding			2						1												1			4	
timbering																						1		1	
stairs, landing stage							3	1	1		1			1				1	1					9	
opening			1							1														2	
roof, beam, haze, crossbeam, principal rafter															1									1	
working platform, boot board			3		1								1		1	1		1	1					10	
passage			1		1			2	1	1		2		3		1	1	1	4	2	1	1	1	3	26
building, establishment			1		1		1			2		1	1				1		1	1		1	1	12	

other temporary buildings, establishments			1				1					1	1			1			1					6
explosive substance																								
inflammable substance																					1			1
inflammable gas																								
harmful substance																								
radiation																								
other hazards, harmful substances															1									1
metal material					1		1	3		1	2												2	10
lumber, bamboo			1							1		1												3
stone, sand, substance			2				1	1	4	3	1	2	1	2				1	1				4	23
other materials					1								1											2
load					1		1		1									1		1				5
machine/equipment as load																								
natural ground, rock			1		1			1	1	2	1		1	1			1			1		1	1	13
standing tree					1							1					1		1	1				5

water																									
abnormal environment																									
high/cold temperature environment																									
other environments			1				2					1		1		1							1	7	
other causal agent									1				1					1						3	
no causal agent					2		1		1	1	1	1	2	2				1	2	1	1			1	17
unclassifiable																1								1	
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	19	575

Workers age of fatal and non-fatal accidents in other quarrying in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less				1		1		2	1							1					1				7
20-29	10	5	8	2	3	2	2		3	3	2			1		1	1	3		3		1	1	2	53
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
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	2	120
50-59	12	12	9	14	10	9	9	11	9	9	5	9	3	6	4	5	3	7	3	7	4		8	9	177
60 years old or	5	12	5	10	5	3	8	9	6	4	3	7	4	2	4	5	6	4	6	4	6	4	13	6	141

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	19	575

Workers' number of workplace of fatal and non-fatal accidents in other quarrying in 1999-2022

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	2022	total
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	6	211
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	11	255
30-49	5	5	2	8	1	2	4	5	2	3		2	1	3		4	2	5	2		2		2	1	61
50-99	1	6	1	3	1		3	1	1	1	1	1	1		1		1	2	1	2			4	1	33
100-299			1			1			3		1	1				1		1	2		3	1			15
300 workers or 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	19	575

Month of fatal and non-fatal accidents in other quarrying in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	2	3	2	2	2	2	2	1		1	1	1	1	1		3	2	1			1		2	2	32
February	3	4	3	4	2	6	3	3	3		1	1	2	3			3	1	2	1	2		3	2	52
March	1	8	6	4	5	1	2	4	5	2	5	2		2		1	2	1	2		2	1	3	3	62
April	2	1	4	3	2	4	5	1	3	4	1	2	3	1		2		4	2	1			1	1	47

May	2	2	3	4	3	3	2	3	3	2		2	1	2	2		1	4	3				1		43
June	7	5	2	1	3	4		7	4	3	1	2	3	2		1	2	2	1		2		5		57
July	2	1	2	2	1	1			4	3	1	1			1	1	1			3	1	1	2	3	31
August		6	2	5	1	1	5	4	1	1	1	1	1	1	2	2	2	1	2	1		3	4	1	48
September	6	1	5	9	2	3	3	4	1	3	1	5	1		3	4	2		1	2	3	1	1	3	64
October	3	5	2	1	2	2	3	3	2	6	1	3	2	1	2		2	2		3	1	2	1	2	51
November	5	8	4	1	1	1	3	1		1	1	2	1	3		3	2	1	1	2	2		1	2	46
December	6	2		1	4	3	3	2	1		1	2	3		1	2			4	5		1	1		42
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	19	575

Prefecture of fatal and non-fatal accidents in other quarrying in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	1	2	2		1		1	3		2	1	2		2	1	1	2	1	1	2			1		26
Aomori									1			1	1					1							4
Iwate	1	1	2				1	2	1	2		2	1	1		1	1			1			1	1	19
Miyagi							1	1	2				1			2	3	3		2	1		1	1	18
Akita	2		1				1										1								5
Yamagata	2	5			1		1	1	2			1	2					1	1		1	1	2	3	24
Fukushima		1	1		2		1									1		3	2	1			1		13
Ibaraki		1							1			1				1			1						5





Nara							2	1				2	1	2									8		
Wakayama												1											1		
Tottori		1			1		2					1							1				6		
Shimane	1				1		1	2	1	2	1	2	2		1	1	2				1	2	1	1	22
Okayama	1						1												1			1		2	6
Hiroshima		1					1		1									1	2	1	1	2			10
Yamaguchi					1																				1
Tokushima																									
Kagawa														1				1	2						4
Ehime			1		1		5	2	1	3	1	1			1										16
Kochi			2				1	2			1														6
Fukuoka	1		1		1									1					1			1			6
Saga		1														1									2
Nagasaki								1	1				1	1											4
Kumamoto	2				2			3	1	1				1		1	2		1		1				15
Oita	3	1					2	2					1										1		10
Miyazaki	1		2						1				2	1									2		9
Kagoshima	1	1	2		1			1		1	1	1		1	2		1		1	1				2	17
Okinawa																1									1
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	19	575

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

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.html> (MHLW, Japan)

Return to [https://www.jisha.or.jp/english/statistics/2022e\\_industry.html](https://www.jisha.or.jp/english/statistics/2022e_industry.html)

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Fatal accidents in other quarrying in Japan in 1999-2022

other quarrying industry Code No.020209

Type of fatal accidents in other quarrying in 1999-2022

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	2022	total	
fall from height	1	1	1	1															1				2		7	
falling to same level				1										1							1					3
crash																										
struck by flying or falling object			1																							1
collapse	2	2															1									5
crashed by							1												1							2

caught in/between	1						1															1	1	4
cut																								
injury to the sole of the foot																								
drown																								
contact to high/low- temperature																								
contact to harmful substance																								
electric shock																								
explosion																								
burst																								
fire																								
traffic accident (public road)	1														1									2
traffic accident (others)																								
reaction to motion/improper motion																								
others		1														1								2

unclassifiable																									
total	5	4	2	2			2							1			2	1	2		1		3	1	26

Causal agents (large) of fatal accidents in other quarrying in 1999-2022

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	2022	total
machine	2			1			2							1							1			1	8
crane, conveying machine	1	1															1						3		6
other equipment			1																						1
temporary buildings, establishments		1		1																1					3
substance, material																									
load																									
environment	2	2	1														1		1						7
others																		1							1
total	5	4	2	2			2							1			2	1	2		1		3	1	26

Causal agents (middle) of fatal accidents in other quarrying in 1999-2022



equipment																								
kiln, caldron																								
electric equipment																								
human power machine, tools																								
tools			1																					1
other equipments, facilities																								
temporary buildings, establishments		1		1														1						3
hazards, harmful substances																								
materials																								
load																								
natural environment	2	2	1												1		1							7
other causal agent																								
no causal agent																1								1
unclassifiable																								
total	5	4	2	2			2							1		2	1	2		1		3	1	26

















other materials																								
load																								
machine/equipment as load																								
natural ground, rock	2	2	1																				5	
standing tree																1	1						2	
water																								
abnormal environment																								
high/cold temperature environment																								
other environments																								
other causal agent																								
no causal agent																	1						1	
unclassifiable																								
total	5	4	2	2			2						1			2	1	2		1		3	1	26

Workers age of fatal accidents in other quarrying in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

19 years old or less																									
20-29																									
30-39	2						1																	3	
40-49		1		1																		1		3	
50-59	2	1	1				1							1			1	1			1		1	10	
60 years old or more	1	2	1	1													1		2				1	1	10
total	5	4	2	2			2							1			2	1	2		1		3	1	26

Workers' number of workplace of fatal accidents in other quarrying in 1999-2022

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	2022	total
9 workers or less	2	3					2										1	1	2						11
10-29	3	1	1	2										1			1						2	1	12
30-49																					1				1
50-99																							1		1
100-299			1																						1
300 workers or more																									
total	5	4	2	2			2							1			2	1	2		1		3	1	26









