

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

other mining industry Code No.020309

Type of accidents in other mining 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	4	8	7	2	3	3	9	7		2		3	2	2	2	3	2	6	1	4	2	1	2	6	81
falling to same level		2	2	1	4	5	3	3	1	1	1	2	1	1	1		3	2	5	3	5	2	2	3	53
crash		2		1	1		1	1				1	1		1		1				1	2			13
struck by flying or falling object	3	5	1	1	2	1		5	1	3	2		1	1					1		2		2		31
collapse									1	1							1	1			1	2			7
crashed by	2	1	3	1	1		1	1			1		2						1	1					15
caught in/between	5	7	6	2	3	9	4	4	7	4	3	1	1	1	6	2	2	1	2	2	2	1	4	3	82
cut	1				1	1		1			1				2					1					8
injury to the sole of the foot																									
drown																									
contact to high/low-	2		1		1	2	1	1									1		1						10

temperature																										
contact to harmful substance										1										1					2	
electric shock																										
explosion					2																				2	
burst																										
fire					5																				5	
traffic accident (public road)		1	1			1					1	1					1	1		1					8	
traffic accident (others)																										
reaction to motion/improper motion	1	1	4				1		1					1	2	2			2		2	2	1	2	1	23
others																										
unclassifiable		1																							1	
total	18	28	25	8	23	22	20	23	11	12	9	8	9	7	14	5	11	13	11	15	15	9	12	13	341	

Causal agents (large) of fatal and non-fatal accidents in other mining 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	6	5	6		4	3	7	3	3	2	1	2	1		4	2	1	3	4	1	1	1	1	2	63





other equipments, facilities					7		1	3							2			1			1				15
temporary buildings, establishments	1	6	4	1	4	5	4	3	1	2	1	3	2	3	1	2	4	2	4	4	5	3	1	3	69
hazards, harmful substances																				1					1
materials	3	5	1		1			3	1	2	2							2	1	1	3	1	1	1	28
load			1			1	1	1		1	2		2				1				1				11
natural environment		2		1	2			2	1	2				1	1		1			2		1		2	18
other causal agent	1		2																						3
no causal agent			1											1	1			1		2	1	1	3	1	12
unclassifiable		1																							1
total	18	28	25	8	23	22	20	23	11	12	9	8	9	7	14	5	11	13	11	15	15	9	12	13	341

Causal agents (small) of fatal and non-fatal accidents in other mining 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								1																	1
power transmission mechanism			1													1				1					3













hauling equipment																									
human power machine																									
hand tool			1		1			2			1				1									6	
ladder			1				2			1					1		1					1	1	8	
slinging tool					1														1					2	
other tools								1	1									1				2		5	
other equipment, facilities					7		1	3						2			1			1				15	
scaffolding										1														1	
timbering																									
stairs, landing stage			1				2	1		1		1		1			1		1				1	10	
opening			1					1																2	
roof, beam, haze, crossbeam, principal rafter																						1		1	2
working platform, boot board			1		1												1	2	2			2			9
passage					2		1	1			1	1	1	1			1		1	1	3		1	1	16
building, establishment			1		1		1		1			1	1	1	1	1	2	1		1	1				14



water																									
abnormal environment																									
high/cold temperature environment																	1								1
other environments					1				1					1						1					4
other causal agent			2																						2
no causal agent			1											1	1			1		2	1	1	3	1	12
unclassifiable																									
total	18	28	25	8	23	22	20	23	11	12	9	8	9	7	14	5	11	13	11	15	15	9	12	13	341

Workers age of fatal and non-fatal accidents in other mining 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			2	1		1																	5
20-29	5		2	1	5	3	2	1	3					1	1	1		1	1	1	2	1	1	1	33
30-39	4	5	4	3	1	1	4	3	1	3	1	1	1	1	4	1	4	2	2		2	2	1	1	52
40-49	1	8	6	2	2	8	4	6	4	2	4	2	4	2	5		2	1	1	5	3	2	2	3	79
50-59	7	9	9	2	10	7	5	8	1	2	4	2	2	2	2	1	3	2	3	3	5	3	6	1	99
60 years old or	1	5	4		3	2	5	4	2	5		3	2	1	2	2	2	7	4	6	3	1	2	7	73

more																									
total	18	28	25	8	23	22	20	23	11	12	9	8	9	7	14	5	11	13	11	15	15	9	12	13	341

Workers' number of workplace of fatal and non-fatal accidents in other mining 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	9	11	9	2	4	3	7	4	7	3	5	1	2	4	3	3	3	5	2	4	2	1	4	5	103
10-29	4	9	12	4	12	9	6	16	4	4	4	2	3	2	7	1	1	3	6	7	4	3	4	3	130
30-49	2	3	2	1	4	3	6	1		3		1	2		3	1	5	2		2	2	3	3	2	51
50-99	2	2	1			4	1	1		1		3	2	1			2	3	3	2	7	1	1	2	39
100-299				1	3	3		1		1		1			1							1		1	13
300 workers or more	1	3	1																						5
total	18	28	25	8	23	22	20	23	11	12	9	8	9	7	14	5	11	13	11	15	15	9	12	13	341

Month of fatal and non-fatal accidents in other mining 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	1	5	3	3	3	1		1		1	3		1	2		1	2	1		1	31
February	2	4		2	2	1		6			2	1	2	1	1	1				1	1	2		1	30
March	3	1	2	2			4	3	1	1		1	1		1	2		1		1	3		1	1	29
April	1	2	3		2	2	2	3			2					1		3	1		1				23

May	2	1	1		7	4			3	2	1	1		1	1		1	1		2	1		1	1	31
June	2	2	3	1	1		2	2									1	2	1	1	1			2	21
July	3	2	4		5	1						1		1	2						2	2	1	24	
August	3	4	4			1	3			1	2	1	1				2		1	1	1		2	2	29
September	1	2			2	3	2			1	1	1	3		1	1	2		1	3	1	1	1	1	28
October	1	4	3	1		1	3	2	1	2				1	4		2			2	1	2	1	1	32
November		3	2		2	4	1	1		2			1				1	3	2	1	3		3	2	31
December		3	3		1			3	3	2	1	1	1	2	1		1	1	5	2		1	1		32
total	18	28	25	8	23	22	20	23	11	12	9	8	9	7	14	5	11	13	11	15	15	9	12	13	341

Prefecture of fatal and non-fatal accidents in other mining 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						1		3												1		8
Aomori			1					2			1			1						1		1	1		8
Iwate	1				1						1						2							1	6
Miyagi																		1						1	2
Akita			1																						1
Yamagata	1	1					1						1		1					1				1	7
Fukushima	3	1								1				1							2	1	1		10
Ibaraki																2		1							3





Nara																									
Wakayama																									
Tottori																									
Shimane																									
Okayama	1	1			1			1					1		1	1	1							8	
Hiroshima			2							1							1					1	2	7	
Yamaguchi					1								1	1		1								4	
Tokushima		1	1					1									1							4	
Kagawa																							1	1	
Ehime																									
Kochi	1		1		1					1	1	1					1					1	1	1	10
Fukuoka			1								1													1	3
Saga								1												1					2
Nagasaki										1															1
Kumamoto	1	1	1				1											2						1	7
Oita	1	3	1				1		1									1				1			9
Miyazaki		1	3		1		1	1										1			1			1	10
Kagoshima												1													1
Okinawa			1					1	2			1													5
total	18	28	25	8	23	22	20	23	11	12	9	8	9	7	14	5	11	13	11	15	15	9	12	13	341





unclassifiable																								
total			1		4	1		1	2	1		1	1					1						13

Causal agents (large) of fatal accidents in other mining 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			1						1																2
crane, conveying machine						1		1				1													3
other equipment					4																				4
temporary buildings, establishments													1												1
substance, material									1	1								1							3
load																									
environment																									
others																									
total			1		4	1		1	2	1		1	1					1							13

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



equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools																									
other equipments, facilities					4																			4	
temporary buildings, establishments												1												1	
hazards, harmful substances											1													1	
materials									1								1							2	
load																									
natural environment																									
other causal agent																									
no causal agent																									
unclassifiable																									
total			1		4	1		1	2	1		1	1				1							13	















crossbeam, principal rafter																							
working platform, boot board																							
passage																							
building, establishment											1											1	
other temporary buildings, establishments																							
explosive substance																							
inflammable substance																							
inflammable gas																							
harmful substance									1													1	
radiation																							
other hazards, harmful substances																							
metal material																							
lumber, bamboo																							
stone, sand, substance									1								1						2

other materials																								
load																								
machine/equipment as load																								
natural ground, rock																								
standing tree																								
water																								
abnormal environment																								
high/cold temperature environment																								
other environments																								
other causal agent																								
no causal agent																								
unclassifiable																								
total			1		4	1		1	2	1		1	1					1						13

Workers age of fatal accidents in other mining 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
20-29					1	1			1															3
30-39																	1							1
40-49			1		1					1			1											4
50-59					2																			2
60 years old or more										1			1											2
total			1		4	1		1	2	1		1	1				1							13

Workers' number of workplace of fatal accidents in other mining 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												1						1							2
10-29					3			1	1	1															6
30-49			1		1																				2
50-99									1				1												2
100-299						1																			1
300 workers or more																									
total			1		4	1		1	2	1		1	1					1							13









Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima																									
Okinawa																									
total			1		4	1		1	2	1		1	1					1							13

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

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