Fatal and non-fatal accidents in general coal mining in Japan in 1999-2022

general coal mining industry Code No.020101

Type of accidents in general coal 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	3		1		2		1	1	1	1		1		1	1					1					14
falling to same	5	3	2											1						2					13
crash	1	2	5				2												1						11
struck by flying or falling object	11	9	11	1			1			1		1			1					1			1		38
collapse	2	2	3																	1					8
crashed by	12	10	5																	1					28
caught in/between	17	10	11										1		2	1								1	43
cut	1	1																							2
injury to the sole of the foot	1	1	1																						3
drown																									
contact to high/low-		1																							1

temperature																						
contact to harmful																						
substance																						
electric shock																						
explosion																						
burst					1																	1
fire																						
traffic accident					1																	1
(public road)																						
traffic accident																						
(others)																						
reaction to																						
motion/improper	5	5	8			1																19
motion																						
others																						
unclassifiable		1																				1
total	58	45	47	1	4	1	4	1	1	2	2	1	2	4	1		1	6		1	1	183

Causal agents (large) of fatal and non-fatal accidents in general coal 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	4	1	5		1								1		1										13

crane, conveying	6	8	6		1		2							1	1			1			1	27
other equipment	12	13	4		1				1					1						1		33
temporary buildings, establishments	7	4	7			1	1	1			1							1				23
substance, material	18	10	16	1						1							1	1				48
load	5	2	2											1								10
environment	6	6	5		1		1			1	1		1					3				25
others		1	2										1									4
total	58	45	47	1	4	1	4	1	1	2	2	1	2	4	1		1	6		1	1	183

Causal agents (middle) of fatal and non-fatal accidents in general coal mining 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	2												1		1										4
mechanism																									
woodworking																									
machine																									

construction	2				1												3
																	╬
metal																	
manufacturing																	
machine —————————																	<u> </u>
general machine		1	5														6
mobile silviculture																	
machine																	
crane		2	3			1											6
conveying																	Ϊ
machine	6	6	3		1	1				1	1		1			1	2
vehicle																	
oressure vessel																	
chemical facilities																	
welding																	
equipment																	
kiln, caldron																	
electric equipment																	
numan power																	
machine, tools	10	2	2														1
cools	2	6	1	i	i					1					1		1

other equipments,		5	1		1				1													8
facilities			•		ľ				<u> </u>													
temporary																						
buildings,	7	4	7			1	1	1			1							1				23
establishments																						
hazards, harmful																						
substances																						
materials	18	10	16	1						1							1	1				48
load	5	2	2											1								10
natural environment	6	6	5		1		1			1	1		1					3				25
other causal agent																						
no causal agent		1	2										1									4
unclassifiable																						
total	58	45	47	1	4	1	4	1	1	2	2	1	2	4	1		1	6		1	1	183

Causal agents (small) of fatal and non-fatal accidents in general coal 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																									
power transmission													1		1										
mechanism													1		•										

circular sawing												
machine												
band sawing												
machine												
wood planer												
machine												
hollow chisel												
mortiser, wood												
borer												
chamfering												
machine, router,												
woodworking												
milling machine												
chain saw												
other woodworking												
machines												
leveling,												
transporting or												
loading machine												
excavating machine												
foundation work												
machine												

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

machine)													
injection molding													
machine													
food manufacturing													
machine													
printing machine													
industrial robot													
other general		5											5
power machines		J											
felling machine													
mobile logging													
machine													
skyline yarding													
machine													
other mobile													
silviculture machine													
crane		1											1
mobile crane				1									1
derrick crane													
elevator, lift													
cargo lifting													
appliance													

gondola													
lumberyard													
equipment, logging													
cableway													
simple skyline													
yarding equipment													
other powered													
crane	2												2
truck	1	1											2
forklift										1			1
railway equipment	1												1
conveyor	1		1				1					1	4
loader								1					1
straddle carrier													
rough terrain hauler													
other powered													
conveying machines													
cars, bus,													
motorcycle													
railway vehicle													
other vehicles													

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

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

other temporary															
buildings,															
establishments															
explosive substance															
inflammable															
substance															
inflammable gas															
harmful substance															
radiation															
other hazards,															
harmful substances															
metal material		9													9
lumber, bamboo		2													2
stone, sand,		5				1					1	1			8
substance						<u> </u>					•	•			
other materials															
load		1							1						2
machine/equipment		1													1
as load		1													
natural ground,		5	1	1		1	1	1				2			12
rock							1								12
standing tree															

water																						
abnormal																						
environment																						
high/cold																						
temperature																						
environment																						
other environments																		1				1
other causal agent																						
no causal agent			2										1									3
unclassifiable																						
total	58	45	47	1	4	1	4	1	1	2	2	1	2	4	1		1	6		1	1	183

Workers age of fatal and non-fatal accidents in general coal 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																				2
20-29	4	1	1				1							1											8
30-39	10	5	9				1						1		1					1					28
40-49	24	23	22		2	1	1					2			1								1		77
50-59	17	16	15	1	1		1	1						1	2				1	4				1	61
60 years old or	2								1	2						1				1					7

more																							
total	58	45	47	1	4	1	4	1	1	2	2	1	2	4	1		1	6		1	1	183	

Workers' number of workplace of fatal and non-fatal accidents in general coal 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			3		2		1								1										7
10-29	11	3	1	1	1				1	2			1		1				1	2					25
30-49		4	1					1						2	1					1					10
50-99	11	8	4		1		1					1			1										27
100-299	13	8	7																	3			1	1	33
300 workers or more	23	22	31			1	2					1				1									81
total	58	45	47	1	4	1	4	1	1	2		2	1	2	4	1			1	6			1	1	183

Month of fatal and non-fatal accidents in general coal 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	5	5	2				1																		13
February	7	7	4							1					1										20
March	2	2	5																				1		10
April	6	4	6				1								1					2					20

]]]																4
May	7	2	5							1	1		1									17
June	3	4	7		1				1					1								17
July	6	4	1	1	2																	14
August	4	3	2			1							1					1				12
September	5	1	5		1			1				1			1							15
October	6	4	4				1				1			1				1				18
November	5	5	6															1			1	18
December	2	4					1										1	1				9
total	58	45	47	1	4	1	4	1	1	2	2	1	2	4	1		1	6		1	1	183

Prefecture of fatal and non-fatal accidents in general coal 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	4	4	3		1		2			2		1			1	1			1	3			1	1	25
Aomori																									
lwate															1										1
Miyagi																									
Akita																									
Yamagata																									
Fukushima																									
Ibaraki																									

Tochigi		1	1												2
Gunma													1		1
Saitama															
Chiba			1												1
Tokyo													1		1
Kanagawa															
Niigata															
Гоуата															
shikawa															
Fukui															
Yamanashi															
Nagano															
Gifu															
Shizuoka															
Aichi															
Mie	1			1			1	1	1	2					7
Shiga															
Kyoto															7
Osaka													1		1
Hyogo									1						1

Nara																						
Wakayama																						
Tottori																						
Shimane																						
Okayama																						
Hiroshima																						
Yamaguchi																						
Tokushima	3																					3
Kagawa					1																	1
Ehime																						
Kochi																						
Fukuoka							1															1
Saga																						
Nagasaki	50	41	43						1													135
Kumamoto																						
Oita								1														1
Miyazaki																						
Kagoshima																						
Okinawa																						
total	58	45	47	1	4	1	4	1	1	2	2	1	2	4	1		1	6		1	1	183

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

Fatal accidents in general coal mining in Japan in 1999-2022

general coal mining industry Code No.020101

Type of fatal accidents in general coal 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																									
falling to same																									
level																									
crash																									
struck by flying or																									
falling object																									
collapse																									
crashed by		1																							1

caught in/between	1												1
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)													
traffic accident (others)													
reaction to motion/improper motion													
others													

unclassifiable													
total	2												2

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

Causal agents (middle) of fatal accidents in general coal mining 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	tota
engine																									
power																									
transmission																									
mechanism																									
woodworking																									
machine																									
construction																									
machine																									
metal																									
manufacturing																									
machine																									
general machine																									
mobile silviculture																									
machine																									
crane																									
conveying		1																							1
machine		I																							
vehicle																									
pressure vessel																									
chemical facilities																									
welding																									

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

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																									
circular sawing																									
machine																									
band sawing																									
machine																									
wood planer																									
machine																									
hollow chisel																									
mortiser, wood																									
borer																									
chamfering																									
machine, router,																									
woodworking																									
milling machine																									
chain saw																									
other woodworking																									

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

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

silviculture machine												
crane												
mobile crane												
derrick crane												
elevator, lift												
cargo lifting												
appliance												
gondola												
lumberyard												
equipment, logging												
cableway												
simple skyline												
yarding equipment												
other powered												
crane												
truck												
forklift												
railway equipment												
conveyor 1												1
loader												
straddle carrier												

rough terrain hauler													
other powered													
conveying machines													
cars, bus,													
motorcycle													
railway vehicle													
other vehicles													
boiler													
pressure vessel													
other pressure													
vessels													
chemical facilities													
gas welding													
equipment													
arc welding													
equipment													
other welding													
equipment													
kiln, caldron													
industrial dryer													
other kiln, caldron													
transmission													

	 \Box			L					\Box	السسا			 	
electric power														
other electrical equipment														
human power cranes	1													1
human power hauling equipment														
human power machine														
hand tool														
ladder														
slinging tool														
other tools														
other equipment,														
scaffolding														
timbering														
stairs, landing stage														
opening														
roof, beam, haze,														

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

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	2												2

Workers age of fatal accidents in general coal mining in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	17009		2011	2012	2013	2014	2016	2017	2019		 2022	total
", .ac	''''	2000	-00.	-00-	2003		2005		2007	2000	-007	-0.0			20.5	_~	 -0.0	-0.7	 -0.7	-020	 	io tai

19 years old or less													
20-29													
30-39													
40-49	1												1
50-59	1												1
60 years old or													
more													
total	2												2

Workers' number of workplace of fatal accidents in general coal 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																									
10-29		1																							1
30-49																									
50-99																									
100-299																									
300 workers or		1																							1
more																									
total		2																							2

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																									
February		1																							1
March																									
April																									
May																									
June																									
July																									
August																									
September																									
October																									
November		1																							1
December																									
total		2																							2

Prefecture of fatal accidents in general coal 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																									

Aomori													
lwate													
Miyagi													
Akita													
Yamagata													
Fukushima													
Ibaraki													
Tochigi													
Gunma													
Saitama													
Chiba													
Tokyo													
Kanagawa													
Niigata													
Toyama													
Ishikawa													
Fukui													
Yamanashi													
Nagano													
Gifu													
Shizuoka													

Aichi													
Mie													
Shiga													
Kyoto													
Osaka													
Hyogo													
Nara													
Wakayama													
Tottori													
Shimane													
Okayama													
Hiroshima													
Yamaguchi													
Tokushima													
Kagawa													
Ehime													
Kochi													
Fukuoka													
Saga													
Nagasaki	2												2

Kumamoto													
Oita													
Miyazaki													
Kagoshima													
Okinawa													
total	2												2

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

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