Fatal and non-fatal accidents in other coal mining in Japan in 1999-2021

other coal mining industry Code No.020109

Type of accidents in other coal 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	1						1		2		2							1	1					8	fall from height
falling to same level													1										1	2	falling to same level
crash				1												1								2	crash
struck by flying or falling object																			1					1	struck by flying or falling object
collapse																									collapse
crashed by			1																					1	crashed by
caught in/between	1	1			1			1			1		1	1	1		1							9	caught in/between
cut																									cut
injury to the sole of the foot																									injury to the sole of the foot
drown																									drown
contact to high/low- temperature																									contact to high/low- temperature

contact to harmful																					contact to
substance																					harmful
Substance																					substance
electric shock																					electric shock
explosion	1																			1	explosion
burst																					burst
fire																					fire
traffic accident (public						1							_								traffic accident
road)						I							I							2	(public road)
traffic accident																					traffic accident
(others)																					(others)
reaction to																					reaction to
motion/improper			2								1					1				4	motion/improper
motion																					motion
others																					others
unclassifiable																					unclassifiable
total	3	1	3	1	1	1	1	1	2	3	3	1	2	1	1	2	2		1	30	total

Causal agents (large) of fatal and non-fatal accidents in other coal 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		Causal (L)
eddsur (L) dgerres		2000	2001	2002	2003	2001	2003	2000	2007	2000	2003	2010	2011	2012	2013	2011	2013	2010	2017	2010	2013	2020	2021		agents
machine	1								1				1											3	machine
crane, conveying																									crane,

machine		1			1	1		1		2		1	2	1			1			11	conveying
macrime																					machine
-4h																					other
other equipment	2		2																	4	equipment
																					temporary
temporary buildings, establishments							1		1	1	1				1	2			1	8	buildings,
establishments																					establishments
substance material			1	1																	substance,
substance, material																				2	material
load											1						1			2	load
environment																					environment
others																					others
total	3	1	3	1	1	1	1	1	2	3	3	1	2	1	1	2	2		1	30	total

Causal agents (middle) of fatal and non-fatal accidents in other coal mining 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													1											1	woodworking machine

construction machine	1						1										2	construction
																		machine
metal manufacturing																		metal
machine																		manufacturing
																		machine
general machine																		general
																		machine
mobile silviculture																		mobile
machine																		silviculture
																		machine
crane																		crane
so nyovina mashina		1		1		1				1		1		1			10	conveying
conveying machine								2			2						10	machine
vehicle					1												1	vehicle
pressure vessel																		pressure vessel
chemical facilities																		chemical
Chemical facilities																		facilities
																		welding
welding equipment																		equipment
kiln, caldron																		kiln, caldron
																		electric
electric equipment																		equipment
human power machine,																		human power
tools			1														1	machine, tools

tools	1		1																	2	tools
other equipments,	1																			1	other equipments, facilities
temporary buildings, establishments							1		1	1	1				1	2			1	8	temporary buildings, establishments
hazards, harmful substances																					hazards, harmful substances
materials			1	1																2	materials
load											1						1			2	load
natural environment																					natural environment
other causal agent																					other causal agent
no causal agent																					no causal agent
unclassifiable																					unclassifiable
total	3	1	3	1	1	1	1	1	2	3	3	1	2	1	1	2	2		1	30	total

Causal agents (small) of fatal and non-fatal accidents in other coal mining 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							1						1	other woodworking
machines							<b>'</b>							machines
leveling,														leveling,
transporting or														transporting or
loading machine														loading machine
excavating machine					1								1	excavating machine
foundation work														foundation work
machine														machine

		لـــــا	L	ا	ا	ا	JL				لـــــــا	$\Box$		$\Box$			
hardening machine																	hardening machine
demolition machine																	demolition machine
vehicle for high lift																	vehicle for high lift
work																	work
other construction																	other construction
machines																	machines
lathe																	lathe
drill press, milling																	drill press, milling
machine																	machine
grinding machine,																	grinding machine,
buffing machine																	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																	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 yarding equipment																	simple skyline yarding equipment
other powered crane																	other powered crane
truck							1			1			1			3	truck
forklift																	forklift
railway equipment																	railway equipment
conveyor			1		1		1		1	1	1					6	conveyor
loader																	loader
straddle carrier																	straddle carrier
rough terrain hauler																	rough terrain hauler
other powered conveying machines																	other powered conveying machines
cars, bus, motorcycle																	cars, bus, motorcycle
railway vehicle																	railway vehicle
other vehicles																	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														human power
cranes														cranes
human power														human power
hauling equipment														hauling equipment
human power														human power
machine														machine
hand tool		1											1	hand tool
ladder														ladder
slinging tool														slinging tool
other tools		1											1	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,										2				2	working platform,
boot board															boot board
passage					1		1						1	3	passage
building,				1					1					2	building,
establishment				•					<u> </u>						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		1															1	metal material
lumber, bamboo																		lumber, bamboo
stone, sand, substance																		stone, sand, substance
other materials																		other materials
load								1						1			2	load
machine/equipment as load																		machine/equipment as load
natural ground,																		natural ground, rock
standing tree																		standing tree
water																		water
abnormal environment																		abnormal environment
high/cold																		high/cold
temperature environment																		temperature environment
other environments																		other environments
other causal agent																		other causal agent
no causal agent																		no causal agent
unclassifiable																		unclassifiable
total		3	1	1	1	2	3	3	1	2	1	1	2	2		1	24	total

Workers age of fatal and non-fatal accidents in other coal 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																									19 years old or less
20-29			1								1		1					1	1					5	20-29
30-39			1		1																			2	30-39
40-49	1	1		1					1				1		1									6	40-49
50-59			1			1	1				1		1	1		1	1		1				1	10	50-59
60 years old or	2							1	1		1				1			1						7	60 years old or
more								•			•				•			•							more
total	3	1	3	1	1	1	1	1	2		3		3	1	2	1	1	2	2				1	30	total

Workers' number of workplace of fatal and non-fatal accidents in other coal 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	1			1	1		1	1			2		1				1	1						10	9 workers or less
10-29		1	3						1				1	1	1	1			1					10	10-29
30-49	2					1			1				1		1			1						7	30-49
50-99											1								1				1	3	50-99
100-299																									100-299
300 workers or																									300 workers or
more																									more
total	3	1	3	1	1	1	1	1	2		3		3	1	2	1	1	2	2				1	30	total

## Month of fatal and non-fatal accidents in other coal 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			2								1													3	January
February		1	1											1									1	4	February
March													1											1	March
April											1								1					2	April
May				1	1														1					3	May
June	1					1												1						3	June
July								1	1		1						1							4	July
August							1						1			1		1						4	August
September															1									1	September
October	1																							1	October
November									1						1									2	November
December	1												1											2	December
total	3	1	3	1	1	1	1	1	2		3		3	1	2	1	1	2	2				1	30	total

Prefecture of fatal and non-fatal accidents in other coal 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			1				1	1	1		2		1	1	1	1		1						11	Hokkaido
Aomori																									Aomori

lwate																lwate
Miyagi																Miyagi
Akita																Akita
Yamagata																Yamagata
Fukushima																Fukushim
lbaraki																lbaraki
Tochigi	2	1	2			1	1		1						8	Tochigi
Gunma																Gunma
Saitama																Saitama
Chiba								1						1	2	Chiba
Tokyo											ĺ					Tokyo
Kanagawa											Ì					Kanagawa
Niigata																Niigata
Toyama																Toyama
Ishikawa											Ì					Ishikawa
Fukui																Fukui
Yamanashi																Yamanash
Nagano																Nagano
Gifu																Gifu
Shizuoka																Shizuoka
Aichi				1								1			2	Aichi
Mie								1							1	Mie
Shiga																Shiga

		 	11		 		 	 	 				 	 		
Kyoto																Kyoto
Osaka										1					1	Osaka
Hyogo																Hyogo
Nara																Nara
Wakayama																Wakayama
Tottori																Tottori
Shimane																Shimane
Okayama																Okayama
Hiroshima																Hiroshima
Yamaguchi																Yamaguch
Tokushima																Tokushima
Kagawa																Kagawa
Ehime																Ehime
Kochi												1			1	Kochi
Fukuoka											1				1	Fukuoka
Saga																Saga
Nagasaki	1														1	Nagasaki
Kumamoto																Kumamoto
Oita																Oita
Miyazaki																Miyazaki
Kagoshima																Kagoshima
Okinawa																Okinawa

total	3	1	3		1		1	1	2		3		3	1	2	1	1	2	2				1	28	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: <a href="https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm">https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm</a> (MHLW, Japan)

Return to <a href="https://www.jisha.or.jp/english/statistics/2021e\_industry.html">https://www.jisha.or.jp/english/statistics/2021e\_industry.html</a>

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Fatal accidents in other coal mining in Japan in 1999-2021

other coal mining industry Code No.020109

Type of fatal accidents in other coal 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																									fall from height
falling to same level																									falling to same
laming to same level																									level
crash																									crash
struck by flying or																									struck by flying
falling object																									or falling object
collapse																									collapse
crashed by																									crashed by
																									caught

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

						<u> </u>		<u> </u>		<u> </u>		<u> </u>		
total														total

Causal agents (large) of fatal accidents in other coal 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	202	0 202	total	Causal (L) agents
machine																									machine
crane, conveying																									crane, conveying machine
other equipment																									other equipment
temporary buildings, establishments																									temporary buildings, establishments
substance, material																									substance, material
load																									load
environment																									environment
others																									others
total																									total

Causal agents (middle) of fatal accidents in other coal mining 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)
engine																									engine
power transmission mechanism																									power transmission mechanism
woodworking machine																									woodworking machine
construction machine																									construction machine
metal manufacturing machine																									metal manufacturing machine
general machine																									general machine
mobile silviculture machine																									mobile silviculture machine
crane																									crane
conveying machine																									conveying machine
vehicle																									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												human power machine, tools
tools												tools
other equipments,												other equipments, facilities
temporary buildings, establishments												temporary buildings, establishments
hazards, harmful substances												hazards, harmful substances
materials												materials
load												load
natural environment												natural environment
other causal agent												other causal agent

no causal agent													no causal
no causar agent													agent
unclassifiable													unclassifiable
total													total

Causal agents (small) of fatal accidents in other coal mining 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																									power transmission mechanism
circular sawing machine																									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													chain saw
other woodworking													other woodworking
leveling,												$\vdash\vdash$	leveling,
transporting or													transporting or
loading machine													loading machine
excavating machine													excavating machine
foundation work													foundation work
machine													machine
hardening machine													hardening machine
demolition machine													demolition machine
vehicle for high lift													vehicle for high lift
work													work
other construction													other construction
machines													machines
lathe													lathe
drill press, milling													drill press, milling
machine													machine
grinding machine,													grinding machine,
buffing machine													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													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												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,												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													slinging tool
other tools													other tools
other equipment,													other equipment,
facilities													facilities
scaffolding													scaffolding
timbering													timbering
stairs, landing stage													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													passage
building,													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,													natural ground,
rock													rock
standing tree													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													no causal agent
unclassifiable													unclassifiable
total													total

Workers age of fatal accidents in other coal 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																									19 years old or less
20-29																									20-29
30-39																									30-39
40-49																									40-49
50-59																									50-59
60 years old or																									60 years old or
more																									more
total																									total

Workers' number of workplace of fatal accidents in other coal 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													9 workers or less
10-29													10-29
30-49													30-49
50-99													50-99
100-299													100-299
300 workers or													300 workers or
more													more
total													total

## Month of fatal accidents in other coal 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																									January
February																									February
March																									March
April																									April
May																									May
June																									June
July																									July
August																									August
September																									September
October																									October
November																									November
				$\Box$	$\Box$	$\overline{}$		$\overline{}$	$\overline{}$		$\Box$				$\overline{}$		$\Box$					$\Box$		$\Box$	

Decembe	r													December
total														total

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

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

Saga												Saga
Nagasaki												Nagasaki
Kumamoto												Kumamoto
Oita												Oita
Miyazaki												Miyazaki
Kagoshima												Kagoshima
Okinawa												Okinawa
total												total

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

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