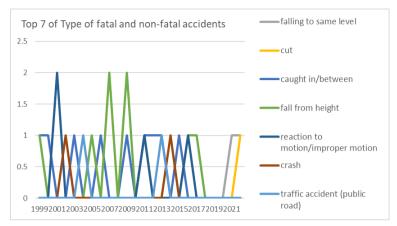
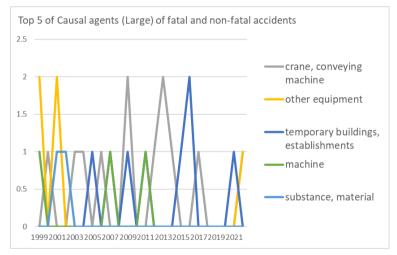
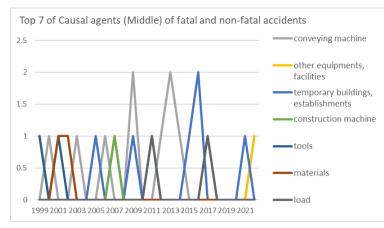
#### Transition of fatal and non-fatal accidents in 020109 other coal mining in Japan (1999-2022)



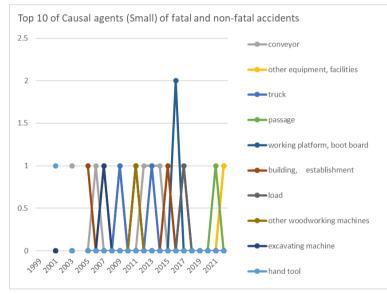
Transition of Top 7 of Type of fatal and non-fatal accidents in 020109 other coal mining in Japan (1999-2022)



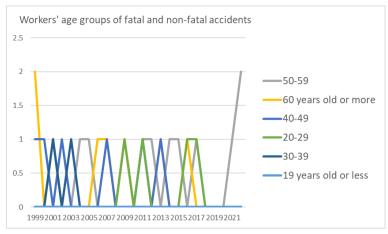
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 020109 other coal mining in Japan (1999-2022)



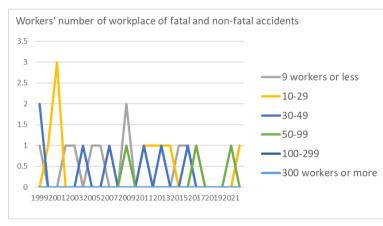
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 020109 other coal mining in Japan (1999-2022)



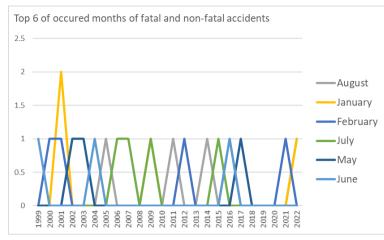
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 020109 other coal mining in Japan (1999-2022)



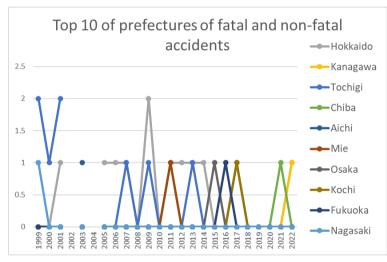
Transition of workers' age groups of fatal and non-fatal accidents in 020109 other coal mining in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 020109 other coal mining in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 020109 other coal mining in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 020109 other coal mining in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 020109 other coal mining in Japan (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	Type of accidents
falling to same level													1										1	1	3	falling to same level
cut																								1	1	cut

caught in/between	1	1			1			1		1	1	1	1		1					9	caught in/between
fall from height	1						1		2	2						1	1			8	fall from height
reaction to motion/improper motion			2								1					1				4	reaction to motion/improper motion
crash				1										1						2	crash
traffic accident (public road)						1							1							2	traffic accident (public road)
struck by flying or falling object																	1			1	struck by flying or falling object
crashed by			1																	1	crashed by
explosion	1																			1	explosion
collapse																					collapse
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
burst																					burst

fire																						fire
traffic accident																						traffic accident
(others)																						(others)
others																						others
unclassifiable																						unclassifiable
total	3	1	3	1	1	1	1	1	2	3	3	1	2	1	1	2	2		1	2	32	total

# Transition of Causal agents (Large) of fatal and non-fatal accidents in 020109 other coal mining in Japan (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	Causal (L) agents
crane, conveying machine		1			1	1		1			2			1	2	1			1					1	12	crane, conveying machine
other equipment	2		2																					1	5	other equipment
temporary buildings, establishments							1		1		1		1				1	2					1		8	temporary buildings, establishments
machine	1								1				1												3	machine
substance, material			1	1																					2	substance, 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	2	32	total

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	Causal (M) agents
conveying machine		1			1			1			2			1	2	1			1					1	11	conveying machine
other equipments, facilities	1																							1		other equipments, facilities
temporary buildings, establishments							1		1		1		1				1	2					1		8	temporary buildings, establishments
construction machine	1								1																2	construction machine
tools	1		1																						2	tools
materials			1	1																					2	materials
load													1						1						2	load
woodworking machine													1												1	woodworking machine
vehicle						1																			1	vehicle
human power machine, tools			1																						1	human power machine, tools
engine																										engine
power transmission																										power transmission

## Transition of Causal agents (Middle) of fatal and non-fatal accidents in 020109 other coal mining in Japan (1999-2022)

mechanism													mechanism
													metal
metal manufacturing													manufacturing
machine													machine
non eral machine													general
general machine													machine
mobile silviculture													mobile
machine													silviculture
													machine
crane													crane
pressure vessel													pressure vessel
chemical facilities													chemical
													facilities
welding equipment													welding
													equipment
kiln, caldron													kiln, caldron
electric equipment													electric
													equipment
hazards, harmful													hazards,
substances													harmful
													substances
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	2	32	total

# Transition of Causal agents (Small) of fatal and non-fatal accidents in 020109 other coal mining in Japan (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	Causal (S) agents
conveyor					1			1			1			1	1	1								1	7	conveyor
other equipment, facilities																								1	1	other equipment, facilities
truck											1				1				1						3	truck
passage									1				1										1		3	passage
working platform, boot board																		2							2	working platform, boot board
building, establishment							1										1								2	building, establishment
load													1						1						2	load
other woodworking machines													1												1	other woodworking machines
excavating machine									1																1	excavating machine
hand tool			1																						1	hand tool
other tools			1																						1	other tools
stairs, landing stage											1														1	stairs, landing stage
metal material			1																						1	metal material

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
leveling, transporting or loading machine													leveling, transporting or loading machine
foundation work machine													foundation work machine
hardening machine													hardening machine
demolition machine													demolition machine
vehicle for high lift													vehicle for high lift

work													work
other construction machines													other construction machines
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 manufacturing machines													other metal manufacturing machines
centrifugal machine													centrifugal machine
mixer, grinder													mixer, grinder
roll machine (except printingroll machine)													roll machine (except printingroll machine)
injection molding machine													injection molding machine
food manufacturing machine													food manufacturing 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
forklift													forklift

L										<u> </u>				I
railway equipment														railway equipment
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
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													t	transmission
electric power facilities														electric power facilities
other electrical equipment														other electrical equipment
human power cranes														human power cranes
human power hauling equipment														human power hauling equipment
human power machine														human power machine
ladder														ladder
slinging tool													9	slinging tool
scaffolding													9	scaffolding
timbering													t	timbering
opening													c	opening
roof, beam, haze, crossbeam, principal rafter													d	roof, beam, haze, crossbeam, principal rafter
other temporary buildings, establishments													ł	other temporary buildings, establishments
explosive substance														explosive substance
inflammable substance														inflammable substance

nflammable gas													inflammable gas
narmful substance													harmful substance
radiation													radiation
other hazards, harmful substances													other hazards, harmful substances
lumber, bamboo													lumber, bamboo
stone, sand, substance													stone, sand, substance
other materials													other materials
machine/equipment as load													machine/equipment as load
natural ground, rock													natural ground, rock
standing tree													standing tree
water													water
abnormal environment													abnormal environment
high/cold temperature environment													high/cold temperature environment
other environments													other environments
other causal agent													other causal agent
no causal agent													no causal agent
unclassifiable													unclassifiable

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	Age
50-59			1			1	1				1		1	1		1	1		1				1	2	12	50-59
60 years old or more	2							1	1		1				1			1							7	60 years old or more
40-49	1	1		1					1				1		1										6	40-49
20-29			1								1		1					1	1						5	20-29
30-39			1		1																				2	30-39
19 years old or less																										19 years old or less
total	3	1	3	1	1	1	1	1	2		3		3	1	2	1	1	2	2				1	2	32	total

### Transition of workers' age groups of fatal and non-fatal accidents in 020109 other coal mining in Japan (1999-2022)

### Transition of workers' number of workplace of fatal and non-fatal accidents in 020109 other coal mining in Japan (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	Workers scale
9 workers or less	1			1	1		1	1			2		1				1	1						1	11	9 workers or less
10-29		1	3						1				1	1	1	1			1					1	11	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	2	32	total

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	Month
August							1						1			1		1						1	5	August
January			2								1													1	4	January
February		1	1											1									1		4	February
July								1	1		1						1								4	July
Мау				1	1														1						3	May
June	1					1												1							3	June
April											1								1						2	April
November									1						1										2	November
December	1												1												2	December
March													1												1	March
September															1										1	September
October	1																								1	October
total	3	1	3	1	1	1	1	1	2		3		3	1	2	1	1	2	2				1	2	32	total

## Transition of occured months of fatal and non-fatal accidents in 020109 other coal mining in Japan (1999-2022)

## Transition of prefectures of fatal and non-fatal accidents in 020109 other coal mining in Japan (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	Prefecture
Hokkaido			1				1	1	1		2		1	1	1	1		1						1	12	Hokkaido
Kanagawa																								1	1	Kanagawa
Tochigi	2	1	2						1		1				1										8	Tochigi
Chiba													1										1		2	Chiba
Aichi					1														1						2	Aichi
Mie													1												1	Mie

		 			 		<u> </u>		<u> </u>	<u> </u>					 <u> </u>	
Osaka									1						1	Osaka
Kochi											1				1	Kochi
Fukuoka										1					1	Fukuoka
Nagasaki	1														1	Nagasaki
Aomori																Aomori
lwate																lwate
Miyagi																Miyagi
Akita																Akita
Yamagata																Yamagata
Fukushima																Fukushima
Ibaraki																Ibaraki
Gunma																Gunma
Saitama																Saitama
Tokyo																Tokyo
Niigata																Niigata
Toyama																Toyama
Ishikawa																Ishikawa
Fukui																Fukui
Yamanashi																Yamanashi
Nagano																Nagano
Gifu																Gifu
Shizuoka																Shizuoka
Shiga																Shiga
			i – – i										i — —	H		

Kyoto																						Kyoto
Нуодо																						Hyogo
Nara																						Nara
Wakayama																						Wakayama
Tottori																						Tottori
Shimane																						Shimane
Okayama																						Okayama
Hiroshima																						Hiroshima
Yamaguchi																						Yamaguchi
Tokushima																						Tokushima
Kagawa																						Kagawa
Ehime																						Ehime
Saga																						Saga
Kumamoto																						Kumamoto
Oita																						Oita
Miyazaki																						Miyazaki
Kagoshima																						Kagoshima
Okinawa																						Okinawa
total	3	1	3	1	1	1	1	1	2	3	3	1	2	1	1	2	2		1	2	32	total

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