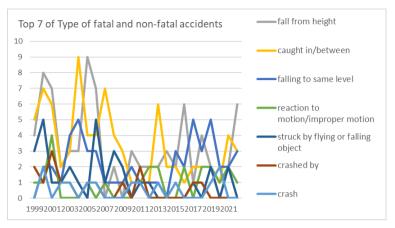
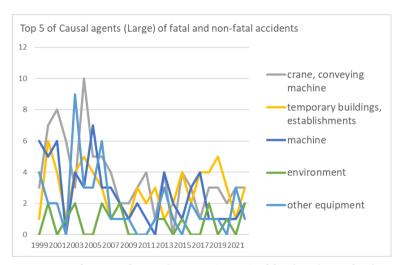
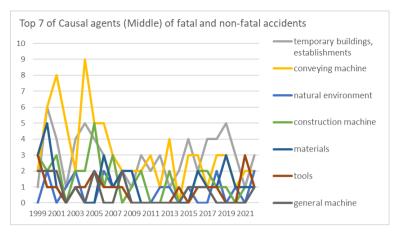
Transition of fatal and non-fatal accidents in 020309 other mining in Japan (1999-2022)



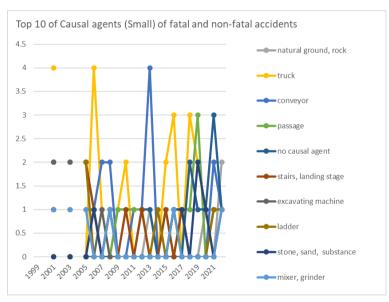
Transition of Top 7 of Type of fatal and non-fatal accidents in 020309 other mining in Japan (1999-2022)



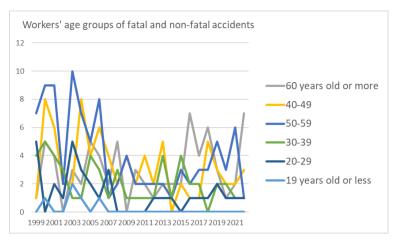
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 020309 other mining in Japan (1999-2022)



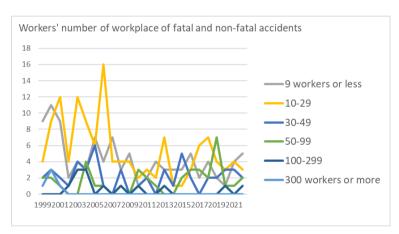
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 020309 other mining in Japan (1999-2022)



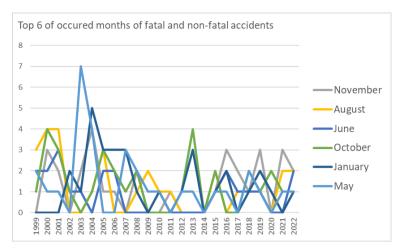
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 020309 other mining in Japan (1999-2022)



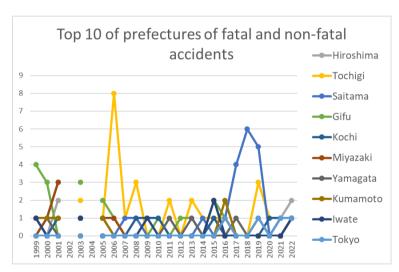
Transition of workers' age groups of fatal and non-fatal accidents in 020309 other mining in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 020309 other mining in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 020309 other mining in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 020309 other mining in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 020309 other 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
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	fall from height
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	caught in/between

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	falling to same
reaction to motion/improper motion	1	1	4				1		1				1	2	2		2		2	2	1	2	1	23	reaction to motion/improper motion
struck by flying or falling object	3	5	1	1	2	1		5	1	3	2		1	1				1		2		2		31	struck by flying or falling object
crashed by	2	1	3	1	1		1	1			1		2					1	1					15	crashed by
crash		2		1	1		1	1				1	1		1	1				1	2			13	crash
contact to high/low- temperature	2		1		1	2	1	1								1		1						10	contact to high/low- temperature
cut	1				1	1		1			1				2				1					8	cut
traffic accident (public		1	1			1					1	1				1	1		1					8	traffic accident (public road)
collapse									1	1						1	1			1	2			7	collapse
fire					5																			5	fire
contact to harmful substance										1									1					2	contact to harmful substance
explosion					2																			2	explosion
unclassifiable		1																						1	unclassifiable
injury to the sole of the foot																									injury to the sole
drown																									drown

electric shock																										electric shock
burst																										burst
traffic accident																										traffic accident
(others)																										(others)
others																										others
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	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 020309 other 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		Causal (L)
crane, conveying machine	3	7	8	6	3	10	5	5	4	2	2	3	4	1	4		4	3	1	3	3	2	3	3	89	crane, conveying machine
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	temporary buildings, establishments
machine	6	5	6		4	3	7	3	3	2	1	2	1		4	2	1	3	4	1	1	1	1	2	63	machine
environment		2		1	2			2	1	2				1	1		1			2		1		2	18	environment
other equipment	4	2	2		9	3	3	6	1	1	1			1	3	1		2	1	1	1		3	1	46	other equipment
substance, material	3	5	1		1			3	1	2	2							2	1	2	3	1	1	1	29	substance, material
others	1	1	3											1	1			1		2	1	1	3	1	16	others
load			1			1	1	1		1	2		2				1				1				11	load
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	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 020309 other mining in Japan (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		Causal (M)
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	temporary buildings, establishments
conveying machine	2	6	8	5	2	9	5	5	3	2	2	2	3	1	4		3	3	1	3	3	1	2	2	77	conveying machine
natural environment		2		1	2			2	1	2				1	1		1			2		1		2	18	natural environment
construction machine	3	2	3		2	2	5	1	3		1	2			2			2	2	1	1		1	1	34	construction machine
materials	3	5	1		1			3	1	2	2							2	1	1	3	1	1	1	28	materials
tools	3	1	1		1	1	2	1	1	1						1		1	1	1			3	1	20	tools
general machine	2	2	2		1		2			2							1	1	1					1	15	general machine
no causal agent			1											1	1			1		2	1	1	3	1	12	no causal agent
crane	1	1		1					1			1	1				1						1	1	9	crane
other equipments,					7		1	3							2			1			1					other equipments, facilities
load			1			1	1	1		1	2		2				1				1				11	load
																										metal

metal manufacturing	1				1	1			1		2	1				1		8	manufacturing
machine																			machine
human power machine,	1	1	1	1		2		1			1							8	human power
tools																			machine, tools
power transmission																			power
mechanism		1	1									1		1				4	transmission
																			mechanism
vehicle				1	1											1		3	vehicle
other causal agent	1		2															3	other causal
other causar agent																			agent
alastvis asvinmant										1									electric
electric equipment																		2	equipment
engine						1												1	engine
woodworking machine				1														1	woodworking
woodworking machine																			machine
kiln, caldron					1													1	kiln, caldron
hazards, harmful																			hazards,
substances															1			1	harmful
Substances																			substances
unclassifiable		1																1	unclassifiable
mobile silviculture																			mobile
machine																			silviculture
The chine																			machine
pressure vessel																			pressure vessel
																			chemical

chemical facilities																									facilities
welding equipment																									welding equipment
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	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 020309 other mining in Japan (1999-2022)

Causal (C) amonts	1000	2000	2001	2002	2002	2004	2005	2006	2007	2000	2000	2010	2011	2012	2012	2014	2015	2016	2017	2010	2010	2020	2021	2022	tatal	Causal (S) agents
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	totai	Causai (5) agents
natural ground,					1			1		1					1							1		2	7	natural ground,
rock								'							'							'			*	rock
truck			4					4	1		1	2					2	3		3	2	1		1	24	truck
conveyor			2				2	1	2	2			1	1	4								2	1	18	conveyor
passage					2		1	1			1	1	1	1			1		1	1	3		1	1	16	passage
no causal agent			1											1	1			1		2	1	1	3	1	12	no causal agent
stairs, landing stage			1				2	1		1		1		1			1		1					1	10	stairs, landing stage
excavating machine			2		2				1									1	1				1	1	9	excavating machine
ladder			1				2			1						1		1					1	1	8	ladder
stone, sand,																										stone, sand,
substance								ı		I								ı	ı		2	I		I	8	substance
mixer, grinder			1		1		1			1								1						1	6	mixer, grinder
other powered												1														other powered
crane																									2	crane
roof, beam, haze,																										roof, beam, haze,
crossbeam,																						1		1	2	crossbeam,
principal rafter																										principal rafter

other equipment,			7	1	3							2			1			1			15	other equipment,
building, establishment		1	1	1		1			1	1	1	1	1	2	1		1	1			14	building, establishment
leveling, transporting or loading machine				3	1	1			2			1			1						9	leveling, transporting or loading machine
working platform, boot board		1	1												1	2	2		2		9	working platform, boot board
metal material		1			1		1	2							1			1		1	8	metal material
load		1		1			1	1		2				1				1			8	load
forklift		1	1	1				1						1		1					6	forklift
hand tool		1	1		2			1				1									6	hand tool
other construction machines				1				1				1					1	1			5	other construction machines
other general power machines		1		1			1							1		1					5	other general power machines
other tools					1	1										1				2	5	other tools
other metal manufacturing machines					1							1	1						1		4	other metal manufacturing machines
other environments			1			1					1						1				4	other environments
power transmission mechanism		1											1			1					3	power transmission mechanism
railway equipment			1	1														1			3	railway equipment

other materials			1		1									1			3	other materials
standing tree					1		1							1			3	standing tree
foundation work		1		1													2	foundation work machine
demolition machine						1							1				2	demolition machine
crane									1							1	2	crane
mobile crane						1						1					2	mobile crane
loader				1					1								2	loader
other powered conveying machines		1							1								2	other powered conveying machines
slinging tool			1											1			2	slinging tool
opening		1			1												2	opening
other temporary buildings, establishments											1				1		2	other temporary buildings, establishments
machine/equipment as load					1			1									2	machine/equipment as load
other causal agent		2															2	other causal agent
engine					1												1	engine
circular sawing			1														1	circular sawing machine
grinding machine, buffing machine										1							1	grinding machine, buffing machine
shearing machine									1								1	shearing machine

cars, bus,			1												1	cars, bus,
motorcycle																motorcycle
other vehicles													1		1	other vehicles
electric power								1							1	electric power
facilities								•							ľ	facilities
scaffolding						1									1	scaffolding
other hazards,												1			1	other hazards,
harmful substances												•			ı	harmful substances
lumber, bamboo					1										1	lumber, bamboo
high/cold																high/cold
temperature										1					1	temperature
environment																environment
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																other woodworking
																1 1

machines	machines
hardening machine	hardening machine
vehicle for high lift	vehicle for high lift
work	work
lathe	lathe
drill press, milling	drill press, milling
machine machine	machine
power press	power press
forging pressure	forging pressure
hammer	hammer
centrifugal machine centrifugal machine	centrifugal machine
roll machine (except	roll machine (except
printingroll	printingroll
machine)	machine)
injection molding	injection molding
machine machine	machine
food manufacturing	food manufacturing
machine	machine
printing machine printing machine	printing machine
industrial robot	industrial robot
felling machine	felling machine
mobile logging	mobile logging
machine	machine
skyline yarding	skyline yarding
machine	machine

1	 											
other mobile												other mobile
silviculture machine												silviculture machine
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
straddle carrier												straddle carrier
rough terrain hauler												rough terrain hauler
railway vehicle												railway vehicle
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
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
timbering													timbering
explosive substance													explosive substance
inflammable													inflammable
substance													substance
inflammable gas													inflammable gas
harmful substance													harmful substance
radiation													radiation
water													water
abnormal													abnormal
environment													environment

unclassifiable																										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	total

Transition of workers' age groups of fatal and non-fatal accidents in 020309 other mining in Japan (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	Age
60 years old or	1	5	4		2	2	5	4	2	5		2	2	1	2	2	2	7	4	6	3	1	2	7	73	60 years old or
more	<u> </u>				J			T						'								<u>'</u>			/3	more
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	40-49
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	50-59
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	30-39
20-29	5		2	1	5	3	2	1	3					1	1	1		1	1	1	2	1	1	1	33	20-29
19 years old or less		1			2	1		1																	5	19 years old or less
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	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 020309 other 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	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	9 workers or less
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	10-29
30-49	2	3	2	1	4	3	6	1		3		1	2		3	1	5	2		2	2	3	3	2	51	30-49
50-99	2	2	1			4	1	1		1		3	2	1			2	3	3	2	7	1	1	2	39	50-99
100-299				1	3	3		1		1		1			1							1		1	13	100-299
300 workers or	1	3	1																						5	300 workers or
more																										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	total

Transition of occured months of fatal and non-fatal accidents in 020309 other mining in Japan (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	Month
November		3	2		2	4	1	1		2			1				1	3	2	1	3		3	2	31	November
August	3	4	4			1	3			1	2	1	1				2		1	1	1		2	2	29	August
June	2	2	3	1	1		2	2									1	2	1	1	1			2	21	June
October	1	4	3	1		1	3	2	1	2				1	4		2			2	1	2	1	1	32	October
January				2	1	5	3	3	3	1		1		1	3		1	2		1	2	1		1	31	January
May	2	1	1		7	4			3	2	1	1		1	1		1	1		2	1		1	1	31	May
February	2	4		2	2	1		6			2	1	2	1	1	1				1	1	2		1	30	February
March	3	1	2	2			4	3	1	1		1	1		1	2		1		1	3		1	1	29	March
September	1	2			2	3	2			1	1	1	3		1	1	2		1	3	1	1	1	1	28	September
July	3	2	4		5	1						1		1	2							2	2	1	24	July
December		3	3		1			3	3	2	1	1	1	2	1		1	1	5	2		1	1		32	December
April	1	2	3		2	2	2	3			2					1		3	1		1				23	April
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	total

Transition of prefectures of fatal and non-fatal accidents in 020309 other 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
Hiroshima			2							1							1						1	2	7	Hiroshima
Tochigi	1				2		1	8	1	3			2		2	1	1	1			3	1	1	1	29	Tochigi
Saitama		1	3		1				1	1						1		1	4	6	5		1	1	26	Saitama
Gifu	4	3			3		2	1				1		1	1		2	1						1	20	Gifu
Kochi	1		1		1					1	1	1					1					1	1	1	10	Kochi

Miyazaki		1	3	1	1	1										1			1			1	10	Miyazaki
Yamagata	1	1			1						1		1				1					1		Yamagata
Kumamoto	1	1	1		1											2						1		Kumamoto
lwate	1			1					1						2							1	6	lwate
Tokyo																1			1		1	1	4	Tokyo
Fukuoka			1						1													1	3	Fukuoka
Kagawa																						1	1	Kagawa
Aichi		2	1	2	1	1				3	2	2	1				1	1	1	2			20	Aichi
Nagano		1			2			1			1		1			1	2	2			1		12	Nagano
Kyoto				1	5	1		2	1				1			1							12	Kyoto
Toyama	3	2	1		1		1		1								1				1		11	Toyama
Mie		2	1		1	3						1	1						1	1			11	Mie
Fukushima	3	1						1				1						2	1	1			10	Fukushima
Shiga	1	1		1						1			1			2		1			1		9	Shiga
Oita	1	3	1		1		1									1				1			9	Oita
Hokkaido		1	2				1		3												1		8	Hokkaido
Aomori			1			2			1			1						1		1	1		8	Aomori
Niigata				5									1	1			1						8	Niigata
Okayama	1	1		1		1					1		1	1	1								8	Okayama
Gunma			2	3		1	1																7	Gunma
Chiba		1			2										1				1	1			6	Chiba
Hyogo		1	1			1					1							1	1				6	Hyogo
Shizuoka		2					1	1									1						5	Shizuoka

Okinawa			1					1	2			1													5	Okinawa
Fukui		1							2						1										4	Fukui
Yamaguchi					1								1	1		1									4	Yamaguchi
Tokushima		1	1					1									1								4	Tokushima
Ibaraki															2		1								3	Ibaraki
Ishikawa			1				1																1		3	Ishikawa
Miyagi																		1					1		2	Miyagi
Saga								1												1					2	Saga
Akita			1																						1	Akita
Osaka		1																							1	Osaka
Nagasaki										1															1	Nagasaki
Kagoshima												1													1	Kagoshima
Kanagawa																										Kanagawa
Yamanashi																										Yamanashi
Nara																										Nara
Wakayama																										Wakayama
Tottori																										Tottori
Shimane																										Shimane
Ehime																										Ehime
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	total

Data Source: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html MHLW, Jaan

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