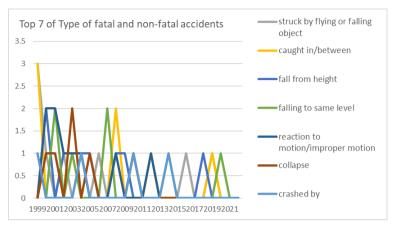
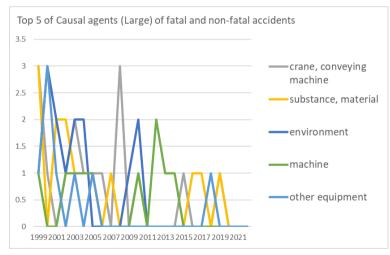
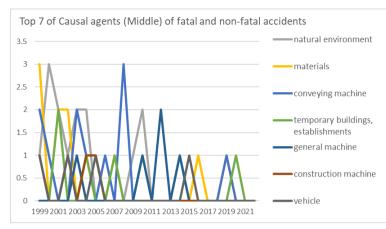
Transition of fatal and non-fatal accidents in 020301 metal mining in Japan (1999-2022)



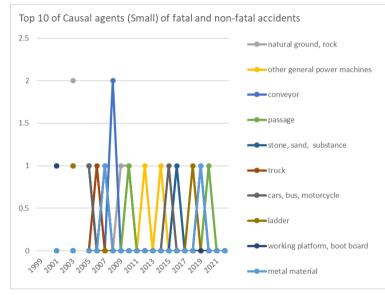
Transition of Top 7 of Type of fatal and non-fatal accidents in 020301 metal mining in Japan (1999-2022)



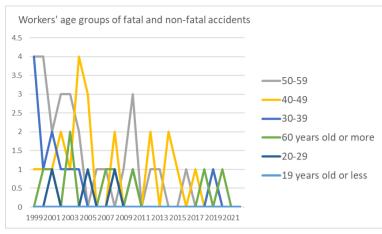
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 020301 metal mining in Japan (1999-2022)



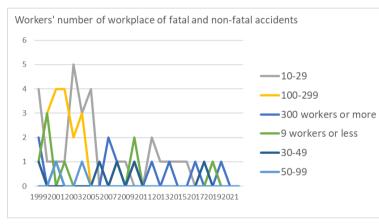
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 020301 metal mining in Japan (1999-2022)



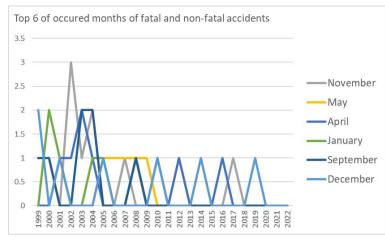
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 020301 metal mining in Japan (1999-2022)



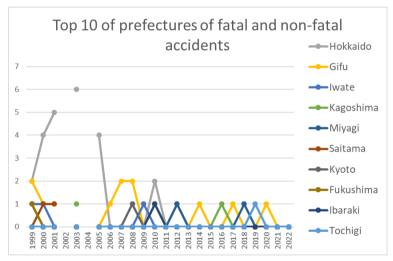
Transition of workers' age groups of fatal and non-fatal accidents in 020301 metal mining in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 020301 metal mining in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 020301 metal mining in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 020301 metal mining in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 020301 metal 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
struck by flying or falling object	3	1		1		1		1				1						1			1				10	struck by flying or falling object
caught in/between	3				1	1	1			2				1							1				10	caught

																					in/between
fall from height		2		1	1	1	1		1	1							1			9	fall from height
falling to same level	1		2		1			2			1			1				1		9	falling to same level
reaction to motion/improper motion		2	2	1	1	1			1			1								9	reaction to motion/improper motion
collapse		1	1		2		1				1									6	collapse
crashed by	1					1					1			1						4	crashed by
contact to high/low- temperature		1	1	1	1															4	contact to high/low- temperature
traffic accident (public road)				1			1						1		1					4	traffic accident (public road)
crash	1		1			1														3	crash
cut												1								1	cut
drown						1														1	drown
contact to harmful substance																1				1	contact to harmful substance
explosion											1									1	explosion
others				1																1	others
injury to the sole of the foot																					injury to the sole of the foot
electric shock																					electric shock

burst																								burst
fire																								fire
traffic accident																								traffic accident
(others)																								(others)
unclassifiable																								unclassifiable
total	9	7	7	6	7	7	4	1	2	4	1	5	3	1	2	1	1	1	1	2	1		73	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 020301 metal 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	3	1		1	2	1	1	1		3		1					1				1					crane, conveying machine
substance, material	3		2	2	1	1	1		1									1	1		1				14	substance, material
environment	1	3	2	1	2	2					1	2													14	environment
machine	1			1	1	1	1					1		2	1	1									10	machine
other equipment	1	3	1		1		1													1					8	other equipment
temporary buildings, establishments			2			1			1			1				1						1			7	temporary buildings, establishments
load						1				1															2	load
others				1										1											2	others

total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 020301 metal 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) agents
natural environment	1	3	2	1	2	2					1	2													14	natural environment
materials	3		2	2		1	1		1									1			1				12	materials
conveying machine	2	1			2	1		1		3											1				11	conveying machine
temporary buildings, establishments			2			1			1			1				1						1				temporary buildings, establishments
general machine					1							1		2		1									5	general machine
construction machine	1			1		1	1																		4	construction machine
vehicle	1			1			1										1								4	vehicle
human power machine, tools		1	1				1																		3	human power machine, tools
tools		1			1															1					3	tools
other equipments, facilities	1	1																								other equipments, facilities
hazards, harmful																										hazards,

substances				1								1			2	harmful
load	<u> </u>				1		1								2	substances load
power transmission mechanism										1					1	power transmission mechanism
crane								1							1	crane
other causal agent			1												1	other causal agent
no causal agent									1						1	no causal agent
engine																engine
woodworking machine																woodworking machine
metal manufacturing machine																metal manufacturing machine
mobile silviculture machine																mobile silviculture machine
pressure vessel																pressure vessel
chemical facilities																chemical facilities
welding equipment																welding equipment

kiln, caldron																								kiln, caldron
alastris aquinmont																								electric
electric equipment																								equipment
unclassifiable																								unclassifiable
total	9	7	7	6	7	7	4	1	2	4	1	5	3	1	2	1	1	1	1	2	1		73	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 020301 metal 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
natural ground, rock			1		2						1	1													5	natural ground, rock
other general power machines					1							1		1		1									4	other general power machines
conveyor					1					2											1				4	conveyor
passage			1									1										1			3	passage
stone, sand, substance			1				1											1							3	stone, sand, substance
truck					1			1																	2	truck
cars, bus, motorcycle							1										1								2	cars, bus, motorcycle
ladder					1															1					2	ladder
working platform, boot board			1						1																2	working platform, boot board
metal material									1												1				2	metal material
power transmission mechanism															1										1	power transmission mechanism

leveling, transporting or loading machine				1										1	leveling, transporting or loading machine
mixer, grinder								1						1	mixer, grinder
crane							1							1	crane
forklift						1								1	forklift
human power hauling equipment				1										1	human power hauling equipment
hand tool		1												1	hand tool
stairs, landing stage									1					1	stairs, landing stage
inflammable substance			1											1	inflammable substance
harmful substance											1			1	harmful substance
other materials		1												1	other materials
load						1								1	load
standing tree							1							1	standing tree
high/cold temperature environment		1												1	high/cold temperature environment
no causal agent								1						1	no causal agent
engine															engine
circular sawing machine															circular sawing machine
band sawing															band sawing

machine													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 machines													other woodworking machines
excavating machine													excavating machine
foundation work machine													foundation work machine
hardening machine													hardening machine
demolition machine													demolition machine
vehicle for high lift work													vehicle for high lift work
other construction machines													other construction machines
lathe													lathe
drill press, milling machine													drill press, milling machine

grinding machine,													grinding machine,
buffing machine		<u> </u>											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
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
felling machine													felling machine
mobile logging													mobile logging
machine													machine
skyline yarding													skyline yarding
machine													machine
other mobile													other mobile

silviculture machine													silviculture mac	hine
mobile crane													mobile crane	
derrick crane													derrick crane	
elevator, lift													elevator, lift	
cargo lifting appliance													cargo lifting appliance	
gondola													gondola	
lumberyard equipment, logging cableway													lumberyard equipment, logo cableway	ging
simple skyline yarding equipment													simple skyline yarding equipm	ient
other powered crane													other powered crane	
railway equipment													railway equipme	ent
loader													loader	
straddle carrier													straddle carrier	
rough terrain hauler													rough terrain ha	auler
other powered conveying machines													other powered conveying mach	
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
machine													machine
slinging tool													slinging tool
other tools													other tools
other equipment,													other equipment,
facilities													facilities

<u> </u>]									L	<u> </u>		L			
scaffolding															scaffolding
timbering															timbering
opening															opening
roof, beam, haze,															roof, beam, haze,
crossbeam,															crossbeam,
principal rafter															principal rafter
building,															building,
establishment															establishment
other temporary															other temporary
buildings,															buildings,
establishments															establishments
explosive substance															explosive substance
inflammable gas															inflammable gas
radiation															radiation
other hazards,															other hazards,
harmful substances															harmful substances
lumber, bamboo															lumber, bamboo
machine/equipment															machine/equipment
as load															as load
water														,	water
abnormal															abnormal
environment															environment
other environments															other environments
other causal agent															other causal agent
i iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii															

unclassifiable																								unclassifiable
total	9	7	7	6	7	7	4	1	2	4	1	5	3	1	2	1	1	1	1	2	1		73	total

Transition of workers' age groups of fatal and non-fatal accidents in 020301 metal 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
50-59	4	4	2	3	3	2		1	1		1	3		1	1			1			1				28	50-59
40-49	1	1	1	2	1	4	3			2				2		2	1		1						21	40-49
30-39	4	1	2	1	1	1						1									1				12	30-39
60 years old or		1	1		2				1	1		1								1		1			9	60 years old or
more																									-	more
20-29			1				1			1															3	20-29
19 years old or less																										19 years old or less
total	9	7	7	6	7	7	4	1	2	4	1	5		3	1	2	1	1	1	1	2	1			73	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 020301 metal 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
10-29	4	1	1	1	5	3	4			1	1			2	1	1	1	1			1				28	10-29
100-299	1	3	4	4	2	3						1													18	100-299
300 workers or	2		1						2	1		1		1		1			1			1			11	300 workers or
more										•									ľ.							more
9 workers or less	1	3		1						1		2									1				9	9 workers or less
30-49	1							1		1		1								1					5	30-49
50-99			1			1																			2	50-99
total	9	7	7	6	7	7	4	1	2	4	1	5		3	1	2	1	1	1	1	2	1			73	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
November	1	1		3	1	2			1										1						10	November
May	1	1					1	1	1	1	1			1		1									9	Мау
April			1	1	2	1				1				1				1							8	April
January		2	1			1	1			1		1													7	January
September	1	1			2	2				1															7	September
December	2		1				1					1				1					1				7	December
March			1	1			1					2									1				6	March
August	3											1								1		1			6	August
October		1	1	1		1								1											5	October
June		1	1														1								3	June
July	1				2																				3	July
February			1												1										2	February
total	9	7	7	6	7	7	4	1	2	4	1	5		3	1	2	1	1	1	1	2	1			73	total

Transition of occured months of fatal and non-fatal accidents in 020301 metal mining in Japan (1999-2022)

Transition of prefectures of fatal and non-fatal accidents in 020301 metal 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	2	4	5		6		4					2		1											24	Hokkaido
Gifu	2	1	1					1	2	2		1		1		1			1			1			14	Gifu
lwate	1	1									1														3	lwate
Kagoshima					1							1						1							3	Kagoshima
Miyagi														1						1					2	Miyagi

Saitama		1	1													2	Saitama
Kyoto	1						1									2	Kyoto
Fukushima	1															1	Fukushima
Ibaraki								1								1	Ibaraki
Tochigi														1		1	Tochigi
Chiba												1				1	Chiba
Nagano											1					1	Nagano
Shizuoka							1									1	Shizuoka
Shiga	1															1	Shiga
Нуодо										1						1	Нуодо
Kochi	1															1	Kochi
Kumamoto														1		1	Kumamoto
Aomori																	Aomori
Akita																	Akita
Yamagata																	Yamagata
Gunma																	Gunma
Tokyo																	Tokyo
Kanagawa																	Kanagawa
Niigata																	Niigata
Toyama																	Toyama
Ishikawa																	Ishikawa
Fukui																	Fukui
Yamanashi														L			Yamanashi

Aichi																								Aichi
Mie																								Mie
Osaka																								Osaka
Nara																								Nara
Wakayama																								Wakayama
Tottori																								Tottori
Shimane																								Shimane
Okayama																								Okayama
Hiroshima																								Hiroshima
Yamaguchi																								Yamaguchi
Tokushima																								Tokushima
Kagawa																								Kagawa
Ehime																								Ehime
Fukuoka																								Fukuoka
Saga																								Saga
Nagasaki																								Nagasaki
Oita																								Oita
Miyazaki																								Miyazaki
Okinawa																								Okinawa
total	9	7	7	6	7	7	4	1	2	4	1	5	3	1	2	1	1	1	1	2	1		73	total

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