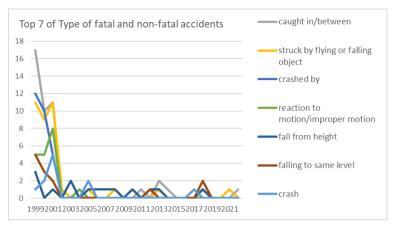
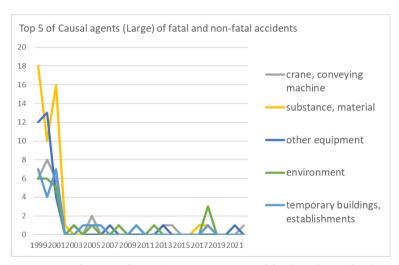
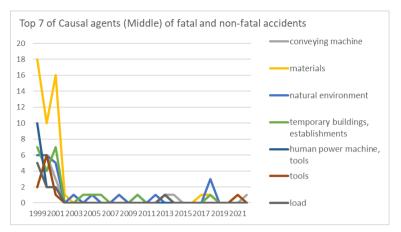
Transition of fatal and non-fatal accidents in 020101 general coal mining in Japan (1999-2022)



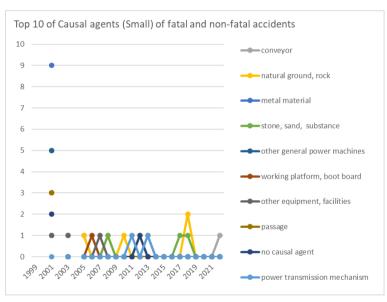
Transition of Top 7 of Type of fatal and non-fatal accidents in 020101 general coal mining in Japan (1999-2022)



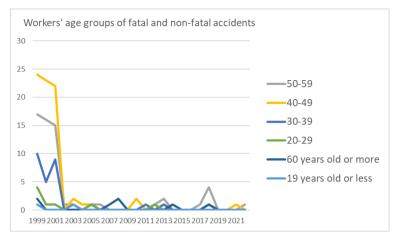
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 020101 general coal mining in Japan (1999-2022)



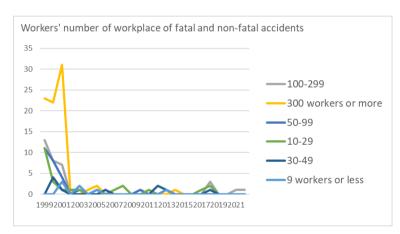
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 020101 general coal mining in Japan (1999-2022)



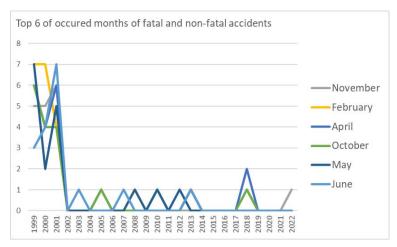
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 020101 general coal mining in Japan (1999-2022)



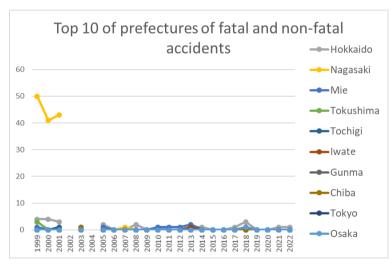
Transition of workers' age groups of fatal and non-fatal accidents in 020101 general coal mining in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 020101 general coal mining in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 020101 general coal mining in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 020101 general coal mining in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 020101 general 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
caught in/between	17	10	11										1		2	1								1	43	caught in/between
struck by flying or	11	9	11	1			1			1		1			1					1			1		38	struck by flying

falling object																			or falling object
crashed by	12	10	5												1			28	crashed by
reaction to motion/improper motion	5	5	8		1													19	reaction to motion/improper motion
fall from height	3		1	2		1	1	1	1	1	1	1			1			14	fall from height
falling to same level	5	3	2								1				2			13	falling to same
crash	1	2	5			2								1				11	crash
collapse	2	2	3												1			8	collapse
injury to the sole of the foot	1	1	1															3	injury to the sole
cut	1	1																2	cut
contact to high/low- temperature		1																1	contact to high/low- temperature
burst				1														1	burst
traffic accident (public				1														1	traffic accident (public road)
unclassifiable		1																1	unclassifiable
drown																			drown
contact to harmful substance																			contact to harmful substance
electric shock																			electric shock

explosion																							explosion
fire																							fire
traffic accident																							traffic accident
(others)																							(others)
others																							others
total	58	45	47	1	4	1	4	1	1	2	2	1	2	4	1		1	6		1	1	183	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 020101 general 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	6	8	6		1		2								1	1				1				1		crane, conveying machine
substance, material	18	10	16	1						1									1	1					48	substance, material
other equipment	12	13	4		1				1						1								1		33	other equipment
environment	6	6	5		1		1			1		1		1						3					25	environment
temporary buildings, establishments	7	4	7			1	1	1				1								1						temporary buildings, establishments
machine	4	1	5		1								1		1										13	machine
load	5	2	2												1										10	load
others		1	2											1											4	others

total	58	45	47	1	4	1	4	1	1	2		2	1	2	4	1			1	6			1	 1	183	total	
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Transition of Causal agents (Middle) of fatal and non-fatal accidents in 020101 general coal 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	total	Causal (M)
conveying machine	6	6	3		1		1								1	1				1				1	21	conveying machine
materials	18	10	16	1						1									1	1					48	materials
natural environment	6	6	5		1		1			1		1		1						3					25	natural environment
temporary buildings, establishments	7	4	7			1	1	1				1								1					23	temporary buildings, establishments
human power machine,	10	2	2																						14	human power
tools	2	6	1												1								1		11	tools
load	5	2	2												1										10	load
other equipments,		5	1		1				1																	other equipments, facilities
general machine		1	5																						6	general machine
crane		2	3				1																		6	crane
power transmission mechanism	2												1		1										4	power transmission

																mechanism
no causal agent		1	2						1						4	no causal agent
construction machine	2			1											3	construction machine
engine																engine
woodworking machine																woodworking machine
metal manufacturing machine																metal manufacturing machine
mobile silviculture machine																mobile silviculture machine
vehicle																vehicle
pressure vessel																pressure vessel
chemical facilities																chemical facilities
welding equipment																welding equipment
kiln, caldron																kiln, caldron
electric equipment																electric equipment
hazards, harmful substances																hazards, harmful

																							substances
other causal agent																							other causal
other causal agent																							agent
unclassifiable																							unclassifiable
total	58	45	47	1	4	1	4	1	1	2	2	1	2	4	1		1	6		1	1	183	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 020101 general 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	4	conveyor
natural ground, rock			5		1		1			1		1		1						2					12	natural ground, rock
metal material			9																						9	metal material
stone, sand, substance			5							1									1	1					8	stone, sand, substance
other general power machines			5																						5	other general power machines
working platform, boot board			3					1																	4	working platform, boot board
other equipment, facilities			1		1				1																3	other equipment,
passage			3																						3	passage
no causal agent			2											1											3	no causal agent
power transmission mechanism													1		1										2	power transmission mechanism
other powered																										other powered

crane		2													2	crane
truck		1	1												2	truck
other tools		1												1	2	other tools
lumber, bamboo		2													2	lumber, bamboo
load		1							1						2	load
other construction machines			1												1	other construction machines
crane		1													1	crane
mobile crane				1											1	mobile crane
forklift												1			1	forklift
railway equipment		1													1	railway equipment
loader										1					1	loader
human power cranes		1													1	human power cranes
hand tool		1													1	hand tool
ladder									1						1	ladder
timbering												1			1	timbering
stairs, landing stage		1													1	stairs, landing stage
roof, beam, haze, crossbeam, principal rafter							1								1	roof, beam, haze, crossbeam, principal rafter
building, establishment				1											1	building, establishment
machine/equipment																machine/equipment

as load		1												1	as load
other environments											1			1	other environments
engine															engine
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															other woodworking
machines															machines
leveling,															leveling,
transporting or															transporting or
loading machine															loading machine
excavating machine															excavating machine
foundation work															foundation work
machine															machine

<u></u>	 											
hardening machine												hardening machine
demolition machine												demolition machine
vehicle for high lift												vehicle for high lift
work												work
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

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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 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
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 vessels													other pressure vessels
chemical facilities													chemical facilities
gas welding equipment													gas welding equipment
arc welding equipment													arc welding equipment
other welding equipment													other welding equipment
kiln, caldron													kiln, caldron
industrial dryer													industrial dryer
other kiln, caldron													other kiln, caldron
transmission													transmission
electric power													electric power facilities
other electrical													other electrical
equipment													equipment
human power hauling equipment													human power hauling equipment

human power													human power
machine													machine
slinging tool													slinging tool
scaffolding													scaffolding
opening													opening
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
other materials													other materials
standing tree													standing tree
water													water
abnormal													abnormal
environment													environment
high/cold													high/cold
temperature													temperature
environment													environment
other causal agent													other causal agent

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

Transition of workers' age groups of fatal and non-fatal accidents in 020101 general coal 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	17	16	15	1	1		1	1						1	2				1	4				1	61	50-59
40-49	24	23	22		2	1	1					2			1								1		77	40-49
30-39	10	5	9				1						1		1					1					28	30-39
20-29	4	1	1				1							1											8	20-29
60 years old or more	2								1	2						1				1					7	60 years old or more
19 years old or less	1				1																				2	19 years old or less
total	58	45	47	1	4	1	4	1	1	2		2	1	2	4	1			1	6			1	1	183	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 020101 general 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
100-299	13	8	7																	3			1	1	33	100-299
300 workers or	23	22	31			1	2					1				1									81	300 workers or
more																										more
50-99	11	8	4		1		1					1			1										27	50-99
10-29	11	3	1	1	1				1	2			1		1				1	2					25	10-29
30-49		4	1					1						2	1					1					10	30-49
9 workers or less			3		2		1								1										7	9 workers or less
total	58	45	47	1	4	1	4	1	1	2		2	1	2	4	1			1	6			1	1	183	total

Transition of occured months of fatal and non-fatal accidents in 020101 general coal 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	5	5	6																	1				1	18	November
February	7	7	4							1					1										20	February
April	6	4	6				1								1					2					20	April
October	6	4	4				1					1			1					1					18	October
May	7	2	5							1		1		1											17	May
June	3	4	7		1				1						1										17	June
September	5	1	5		1			1					1			1									15	September
July	6	4	1	1	2																				14	July
January	5	5	2				1																		13	January
August	4	3	2			1								1						1					12	August
March	2	2	5																				1		10	March
December	2	4					1												1	1					9	December
total	58	45	47	1	4	1	4	1	1	2		2	1	2	4	1			1	6			1	1	183	total

Transition of prefectures of fatal and non-fatal accidents in 020101 general 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	4	4	3		1		2			2		1			1	1			1	3			1	1	25	Hokkaido
Nagasaki	50	41	43						1																135	Nagasaki
Mie	1						1					1	1	1	2										7	Mie
Tokushima	3																								3	Tokushima

Tochigi	1	1												2	Tochigi
lwate								1						1	lwate
Gunma											1			1	Gunma
Chiba		1												1	Chiba
Tokyo											1			1	Tokyo
Osaka											1			1	Osaka
Hyogo							1							1	Hyogo
Kagawa		1												1	Kagawa
Fukuoka			1											1	Fukuoka
Oita				1										1	Oita
Aomori															Aomori
Miyagi															Miyagi
Akita															Akita
Yamagata															Yamagata
Fukushima															Fukushim
Ibaraki															Ibaraki
Saitama															Saitama
Kanagawa															Kanagawa
Niigata															Niigata
Toyama															Toyama
Ishikawa															Ishikawa
Fukui															Fukui
Yamanashi															Yamanasl

Nagano																							Nagano
Gifu																							Gifu
Shizuoka																							Shizuoka
Aichi																							Aichi
Shiga																							Shiga
Kyoto																							Kyoto
Nara																							Nara
Wakayama																							Wakayama
Tottori																							Tottori
Shimane																							Shimane
Okayama																							Okayama
Hiroshima																							Hiroshima
Yamaguchi																							Yamaguchi
Ehime																							Ehime
Kochi																							Kochi
Saga																							Saga
Kumamoto																							Kumamoto
Miyazaki																							Miyazaki
Kagoshima																							Kagoshima
Okinawa																							Okinawa
total	58	45	47	1	4	1	4	1	1	2	2	1	2	4	1		1	6		1	1	183	total

 ${\sf Data\ Source: \underline{https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html\ MHLW, Jaan}}$

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