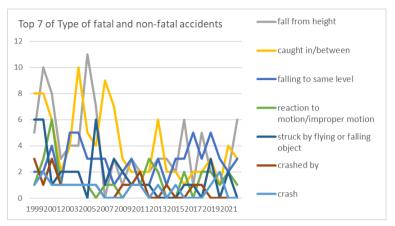
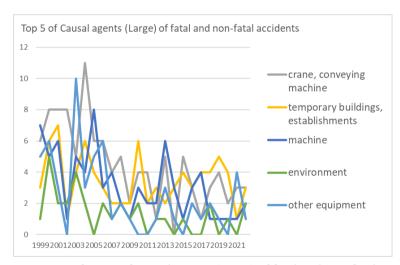
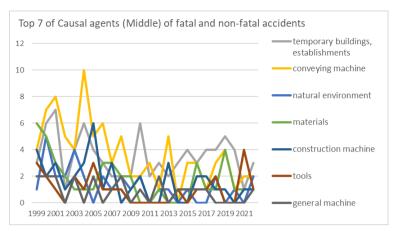
Transition of fatal and non-fatal accidents in 0203 other mining in Japan (1999-2022)



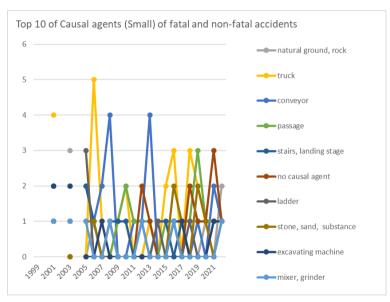
Transition of Top 7 of Type of fatal and non-fatal accidents in 0203 other mining in Japan (1999-2022)



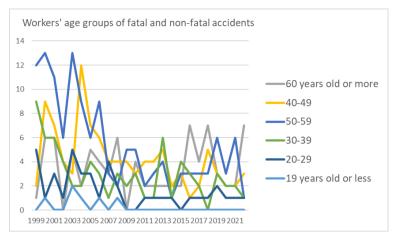
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 0203 other mining in Japan (1999-2022)



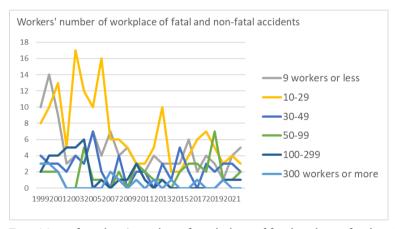
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 0203 other mining in Japan (1999-2022)



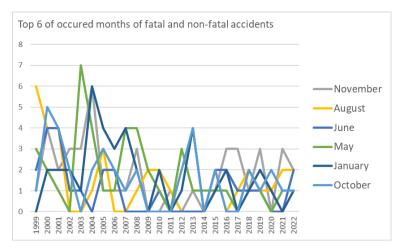
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 0203 other mining in Japan (1999-2022)



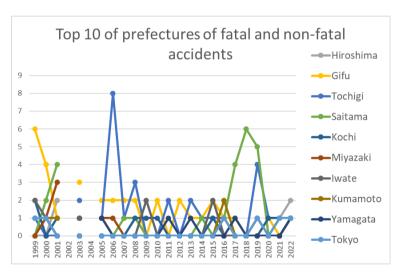
Transition of workers' age groups of fatal and non-fatal accidents in 0203 other mining in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 0203 other mining in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 0203 other mining in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 0203 other mining in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 0203 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	5	10	8	3	4	4	11	7		3	1	3	2	2	3	3	2	6	1	5	2	1	2	6	94	fall from height
caught in/between	8	8	6	2	4	10	5	4	9	7	3	2	2	2	6	2	2	1	2	2	3	1	4	3	98	caught in/between

falling to same level	2	2	4	1	5	5	3	3	3	1	2	3	1	1	3	1	3	3	5	3	5	3	2	3	67	falling to same
reaction to																										reaction to
motion/improper	1	3	6	1	1	1	1		1	1		1	1	3	2			2		2	2	1	2	1	33	motion/improper
motion				-	-					-			•									-				motion
struck by flying or																										struck by flying
falling object	6	6	1	2	2	2		6	1	3	2	1	1	1				1	1		3		2		41	or falling object
crashed by	3	1	3	1	1	1	1	1			1	1	2			1			1	1					19	crashed by
crash	1	2	1	1	1	1	1	1				1	1		1		1				1	2			16	crash
																										contact to
contact to high/low-	2	1	2	1	2	2	1	1		1							1		1						15	high/low-
temperature																										temperature
collapse		1	1		2		1		1	1		1		1			1	1			1	2			14	collapse
traffic accident (public			1				1				1	1			1		2			1					13	traffic accident
road)				2											I					ľ					13	(public road)
cut	1				1	1		1			1			1	2					1					9	cut
fire					5																				5	fire
contact to bouneful																										contact to
contact to harmful substance										1									1	1					3	harmful
substance																										substance
explosion					2							1													3	explosion
drown						1																			1	drown
burst																							1		1	burst
others				1																					1	others
unclassifiable		1																							1	unclassifiable

injury to the sole of																										injury to the sole
the foot																										of the foot
electric shock																										electric shock
traffic accident																										traffic accident
(others)																										(others)
total	29	36	33	15	30	29	25	24	15	18	11	15	10	11	18	7	12	15	12	16	17	10	13	13	434	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 0203 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	6	8	8	8	5	11	6	6	4	5	2	4	4	1	5		5	3	1	3	4	2	3	3	107	crane, conveying machine
temporary buildings, establishments	3	6	7	1	4	6	4	3	2	2	2	6	2	3	2	3	4	3	4	4	5	4	1	3	84	temporary buildings, establishments
machine	7	5	6	1	5	4	8	3	4	2	1	3	2	2	6	3	1	3	4	1	1	1	1	2	76	machine
environment	1	5	2	2	4	2		2	1	2	1	2		1	1		1			2		1		2	32	environment
other equipment	5	6	3		10	3	5	6	1	2	1			1	3	1		2	1	2	1		4	1	58	other equipment
substance, material	6	5	3	2	2	1	1	3	3	3	2			1				3	2	2	4	1	1	1	46	substance, material
others	1	1	3	1										2	1			1		2	1	1	3	1	18	others
load			1			2	1	1		2	2		2				1				1				13	load
total	29	36	33	15	30	29	25	24	15	18	11	15	10	11	18	7	12	15	12	16	17	10	13	13	434	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 0203 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	3	6	7	1	4	6	4	3	2	2	2	6	2	3	2	3	4	3	4	4	5	4	1	3	84	temporary buildings, establishments
conveying machine	4	7	8	5	4	10	5	6	3	5	2	2	3	1	5		3	3	1	3	4	1	2	2	89	conveying machine
natural environment	1	5	2	2	4	2		2	1	2	1	2		1	1		1			2		1		2	32	natural environment
materials	6	5	3	2	1	1	1	3	3	2	2			1				3	1	1	4	1	1	1	42	materials
construction machine	4	2	3	1	2	3	6	1	3		1	2			3			2	2	1	1		1	1	39	construction machine
tools	3	2	1		2	1	3	1	1	1						1		1	1	2			4	1	25	tools
general machine	2	2	2		2		2		1	2		1		2		1	1	1	1					1	21	general machine
no causal agent			1											2	1			1		2	1	1	3	1	13	no causal agent
crane	1	1		1					1			2	1				1						1	1	10	crane
other equipments,	1	1			7		1	3							2			1			1					other equipments, facilities
load			1			2	1	1		2	2		2				1				1				13	load
human power machine,																										human power

tools	1	2	2		1		1	2	1	1			1							12	machine, tools
metal manufacturing machine	1					1		1			1		2	1				1		8	metal manufacturing machine
vehicle	1			2	1	1	1								1			1		8	vehicle
power transmission mechanism		1	1								1		1	1		1				6	power transmission mechanism
hazards, harmful substances					1				1							1	1				hazards, harmful substances
other causal agent	1		2	1																4	other causal agent
electric equipment		1				1						1								3	electric equipment
engine								1												1	engine
woodworking machine					1															1	woodworking machine
kiln, caldron						1														1	kiln, caldron
unclassifiable		1																		1	unclassifiable
mobile silviculture machine																					mobile silviculture machine
pressure vessel																					pressure vessel
																					chemical

chemical facilities																										facilities
welding equipment																										welding equipment
total	29	36	33	15	30	29	25	24	15	18	11	15	10	11	18	7	12	15	12	16	17	10	13	13]	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 0203 other mining in Japan (1999-2022)

ransition of Causai a		(Jilia		atai a			- accid				C1 11111		Зара		7 202											
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		3			1		1	1	1			1							1		2	12	natural ground, rock
truck			4		1			5	1		1	2			1		2	3		3	2	1		1	27	truck
conveyor			2		1		2	1	2	4			1	1	4						1		2	1	22	conveyor
passage			1		2		1	1			1	2	1	1	1		1	1	1	1	3	1	1	1	21	passage
stairs, landing stage			2				2	1		1	1	1		1		1	1		1					1	13	stairs, landing stage
no causal agent			1											2	1			1		2	1	1	3	1	13	no causal agent
ladder			1		1		3			1						1		1		1			1	1	11	ladder
stone, sand, substance			1				1	1		1								2	1		2	1		1	11	stone, sand, substance
excavating machine			2		2				1									1	1				1	1	9	excavating machine
mixer, grinder			1		1		1			1				1				1						1	7	mixer, grinder
other powered crane												1												1	2	other powered crane
roof, beam, haze, crossbeam, principal rafter																						1		1	2	roof, beam, haze, crossbeam, principal rafter

other equipment,			7	1	3							2			1			1			15	other equipment,
building, establishment		1	1	1		1			2	1	1	1	1	2	1		1	1			15	building, establishment
metal material		1			1	2	1	2			1				1			2		1	12	metal material
working platform,		2	1			1									1	2	2		2		11	working platform, boot board
leveling, transporting or loading machine				4	1	1			2			1			1							leveling, transporting or loading machine
other general power machines		1	1	1		1	1		1		1		1	1		1					10	other general power machines
load		1		1			2	1		2				1				1			9	load
forklift		1	1	1			1	1						1		1					7	forklift
hand tool		2	1		2			1				1									7	hand tool
other construction machines				1				1				2					1	1			6	other construction machines
other tools					1	1										1				3	6	other tools
power transmission mechanism		1								1		1	1			1					5	power transmission mechanism
other metal manufacturing machines					1							1	1						1		4	other metal manufacturing machines
other materials		1	1		1												1				4	other materials
standing tree					1		1		1								1				4	standing tree

other environments			1			1					1				1			4	other environments
crane									1	1							1	3	crane
railway equipment			1	1												1		3	railway equipment
cars, bus, motorcycle			1	1									1					3	cars, bus, motorcycle
other temporary buildings, establishments									1			1				1		3	other temporary buildings, establishments
foundation work		1		1														2	foundation work
demolition machine						1								1				2	demolition machine
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 hazards, harmful substances							1								1			2	other hazards, harmful substances
machine/equipment as load					1			1										2	machine/equipment as load
high/cold temperature environment		1											1					2	high/cold temperature environment
other causal agent		2																2	other causal agent

<u> </u>	 	 		 				<u> </u>	 	<u> </u>	<u></u>	 	 	 		 	<u> </u>	
engine					1												1	engine
circular sawing machine			1														1	circular sawing machine
grinding machine, buffing machine											1						1	grinding machine, buffing machine
shearing machine									1								1	shearing machine
other vehicles															1		1	other vehicles
electric power facilities										1							1	electric power facilities
human power				1													1	human power hauling equipment
human power machine							1										1	human power machine
scaffolding							1										1	scaffolding
inflammable substance			1														1	inflammable substance
harmful substance													1				1	harmful substance
lumber, bamboo						1											1	lumber, bamboo
band sawing machine																		band sawing machine
wood planer machine																		wood planer machine
hollow chisel mortiser, wood																		hollow chisel 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
hardening machine													hardening machine
vehicle for high lift													vehicle for high lift
work													work
lathe													lathe
drill press, milling													drill press, milling
machine													machine
power press													power press
forging pressure													forging pressure
hammer													hammer
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 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
timbering													timbering
explosive substance													explosive substance
inflammable gas													inflammable gas
radiation													radiation
water													water
abnormal													abnormal
environment													environment

unclassifiable																										unclassifiable
total	29	36	33	15	30	29	25	24	15	18	11	15	10	11	18	7	12	15	12	16	17	10	13	13	434	total

Transition of workers' age groups of fatal and non-fatal accidents in 0203 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	6	6		E	2	5	4	2	6		4	2	2	2	2	2	7	4	7	3	2	2	7	84	60 years old or
more	I		6		J		J	4	3	6		4							4		3				04	more
40-49	2	9	7	4	3	12	7	6	4	4	4	3	4	4	5	2	3	1	2	5	3	2	2	3	101	40-49
50-59	12	13	11	6	13	9	6	9	3	2	5	5	2	3	4	1	3	3	3	3	6	3	6	1	132	50-59
30-39	9	6	6	4	2	2	4	3	1	3	2	3	1	1	6	1	4	3	2		3	2	2	1	71	30-39
20-29	5	1	3	1	5	3	3	1	4	2			1	1	1	1		1	1	1	2	1	1	1	40	20-29
19 years old or less		1			2	1		1		1															6	19 years old or less
total	29	36	33	15	30	29	25	24	15	18	11	15	10	11	18	7	12	15	12	16	17	10	13	13	434	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 0203 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	10	14	9	3	4	3	7	4	7	4	5	3	2	4	3	3	3	6	2	4	3	1	4	5	113	9 workers or less
10-29	8	10	13	5	17	12	10	16	6	6	5	3	3	5	10	2	2	4	6	7	5	3	4	3	165	10-29
30-49	4	3	3	2	4	3	7	2		4		2	2		3	1	5	2		3	2	3	3	2	60	30-49
50-99	2	2	2			5	1	1		2		3	2	1	1		2	3	3	2	7	1	1	2	43	50-99
100-299	2	4	4	5	5	6		1		1	1	3	1		1							1	1	1	37	100-299
300 workers or	3	3	2						2	1		1		1		1			1			1			16	300 workers or
more										•						•										more
total	29	36	33	15	30	29	25	24	15	18	11	15	10	11	18	7	12	15	12	16	17	10	13	13	434	total

Transition of occured months of fatal and non-fatal accidents in 0203 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	1	4	2	3	3	6	1	1	1	3			1		1		1	3	3	1	3		3	2	43	November
August	6	4	4			1	3			1	2	2	1				2		1	2	1	1	2	2	35	August
June	2	4	4	1	1		2	2				1					2	2	1	1	1			2	26	June
May	3	2	1		7	4	1	1	4	4	2	1		3	1	1	1	1		2	1		1	1	42	May
January		2	2	2	1	6	4	3	4	2		2		1	4		1	2		1	2	1		1	41	January
October	1	5	4	2		2	3	2	1	2				2	4		2			2	1	2	1	1	37	October
September	2	3			4	5	2			2	1	1	3		1	1	2		1	3	1	1	2	1	36	September
March	3	1	3	3			5	3	1	1		3	1		1	2		1		1	4		1	1	35	March
February	3	4	1	2	2	1		6			2	1	2	1	3	1				1	1	2		1	34	February
July	5	2	4		7	1	1				1	1	1	1	2			1				2	2	1	32	July
December	2	3	4	1	1		1	3	4	2	1	2	1	2	1	1	1	1	5	2	1	1	1		41	December
April	1	2	4	1	4	3	2	3		1	2	1		1		1		4	1		1				32	April
total	29	36	33	15	30	29	25	24	15	18	11	15	10	11	18	7	12	15	12	16	17	10	13	13	434	total

Transition of prefectures of fatal and non-fatal accidents in 0203 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
Gifu	6	4	1		3		2	2	2	2		2		2	1	1	2	1	1			1		1	34	Gifu
Tochigi	1				2		1	8	1	3			2		2	1	1	1			4	1	1	1	30	Tochigi
Saitama		2	4		1				1	1						1		1	4	6	5		1	1	28	Saitama
Kochi	2		1		1					1	1	1					1					1	1	1	11	Kochi

Miyazaki		1	3	1	1	1										1			1			1	10	Miyazaki
lwate	2	1		1					2						2							1	9	lwate
Kumamoto	1	1	1		1											2			1			1	8	Kumamoto
Yamagata	1	1			1						1		1				1					1	7	Yamagata
Tokyo	1	1														1			1		1	1	6	Tokyo
Fukuoka			1						1													1	3	Fukuoka
Kagawa																						1	1	Kagawa
Hokkaido	2	5	7	6	4		1		3	3		1	1								1		34	Hokkaido
Aichi		2	1	2	1	1				3	2	2	1				1	1	1	2			20	Aichi
Niigata	1		1	5			1	2		1			3	1			1						16	Niigata
Kyoto	1			1	5	1		3	1				1			1							14	Kyoto
Nagano		1			2			1			1		1	1		1	2	2			1		13	Nagano
Chiba		1			3				1		1	1			2				1	1	1		12	Chiba
Fukushima	4	1						1				1						2	1	1			11	Fukushima
Toyama	3	2	1		1		1		1								1				1		11	Toyama
Mie		2	1		1	3						1	1						1	1			11	Mie
Shiga	2	1		1						1			1			2		1			1		10	Shiga
Oita	1	3	1		1		1									1				1			9	Oita
Aomori			1			2			1			1						1		1	1		8	Aomori
Okayama	1	1		1		1					1		1	1	1								8	Okayama
Gunma			2	3		1	1																7	Gunma
Hyogo		1	1			1					1		1					1	1				7	Hyogo
Shizuoka		2					1	2									1						6	Shizuoka

Tokushima		1	1					1									1	1							5	Tokushima
Okinawa			1					1	2			1													5	Okinawa
Miyagi														1				1		1			1		4	Miyagi
Ibaraki												1			2		1								4	lbaraki
Fukui		1							2						1										4	Fukui
Yamaguchi					1								1	1		1									4	Yamaguchi
Kagoshima					1							2						1							4	Kagoshima
Ishikawa			1				1																1		3	Ishikawa
Akita			1						1																2	Akita
Saga								1												1					2	Saga
Osaka		1																							1	Osaka
Nagasaki										1															1	Nagasaki
Kanagawa																										Kanagawa
Yamanashi																										Yamanashi
Nara																										Nara
Wakayama																										Wakayama
Tottori																										Tottori
Shimane																										Shimane
Ehime																										Ehime
total	29	36	33	15	30	29	25	24	15	18	11	15	10	11	18	7	12	15	12	16	17	10	13	13	434	total

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