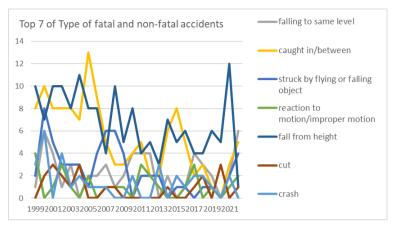
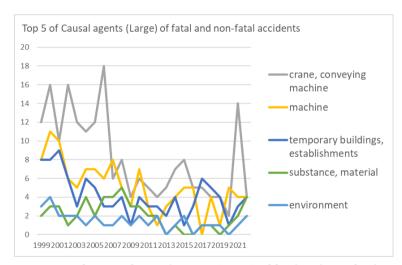
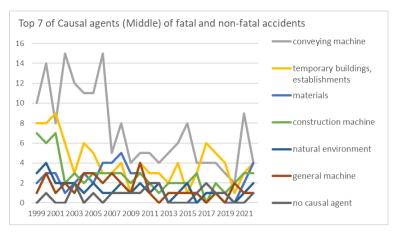
Transition of fatal and non-fatal accidents in 020209 other quarrying in Japan (1999-2022)



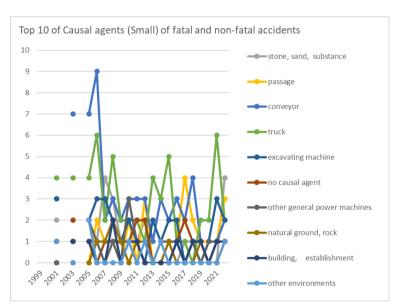
Transition of Top 7 of Type of fatal and non-fatal accidents in 020209 other quarrying in Japan (1999-2022)



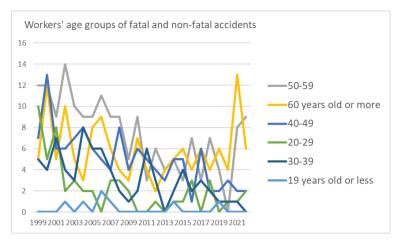
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 020209 other quarrying in Japan (1999-2022)



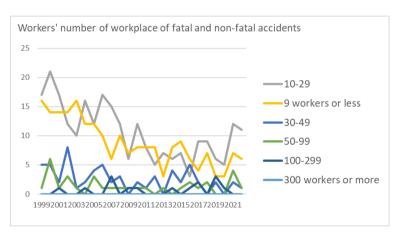
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 020209 other quarrying in Japan (1999-2022)



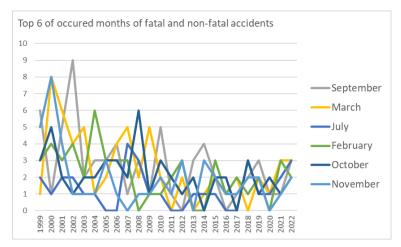
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 020209 other quarrying in Japan (1999-2022)



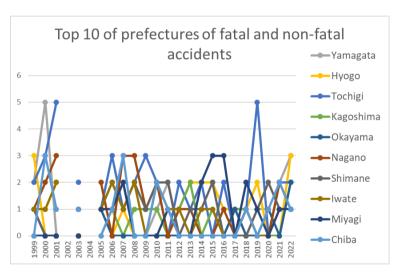
Transition of workers' age groups of fatal and non-fatal accidents in 020209 other quarrying in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 020209 other quarrying in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 020209 other quarrying in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 020209 other quarrying in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 020209 other quarrying 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	6	4	1	3		2	2	3	1	2	4	4	4		2		1	4	3	2		2	6	57	falling to same level
caught in/between	8	10	8	8	8	7	13	9	5	3	3	4	5	2	2	6	8	5	2	3	1		3	5	128	caught

																										in/between
struck by flying or falling object	2	8	5	3	3	3	1	4	6	6	4		2	2	2		1	1		1	1		2	4	61	struck by flying or falling object
reaction to motion/improper motion	4		1	3	1		2		1	1	1		3	2	1			1	3		1		1	2	28	reaction to motion/improper motion
fall from height	10	7	10	10	8	11	8	8	4	10	5	8	4	5	3	7	5	6	4	4	6	5	12	1	161	fall from height
cut		2	3	2	1	3			1	1						1			1	2		3		1	21	cut
crash	3	6		4	1	2	1	1	1			2			3		2	1	2	2	1		2		34	crash
crashed by	3			3	1	4	1	4	2	2		4				1			1	1			3		30	crashed by
collapse	4	1	2	1			1	2	2	2		1		1			1			2	1				21	collapse
traffic accident (public	1	4	1	1	1	1	2	3	1								2	1	1		1				20	traffic accident (public road)
contact to high/low- temperature			1	1					1			1										1			5	contact to high/low- temperature
others		2			1													1							4	others
contact to harmful substance	2															1									3	contact to harmful substance
traffic accident (others)	1																								1	traffic accident (others)
unclassifiable																1									1	unclassifiable
injury to the sole of the foot																										injury to the sole

drown																										drown
electric shock																										electric shock
explosion																										explosion
burst																										burst
fire																										fire
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	19	575	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 020209 other quarrying 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) agents
crane, conveying machine	12	16	10	16	12	11	12	18	6	8	4	6	5	4	5	7	8	5	5	4	4	2	14	4		crane, conveying machine
machine	8	11	10	6	5	7	7	6	8	5	3	7	3	1	3	4	5	5		4	1	5	4	4	122	machine
temporary buildings, establishments	8	8	9	6	3	6	5	3	3	4	1	4	3	3	2	4	1	3	6	5	4	1	3	4		temporary buildings, establishments
substance, material	2	3	3	1	2	4	2	4	4	5	3	3	2	2		1			1	1		1	2	4	50	substance, material
environment	3	4	2	2	2	1	2	1	1	2	1	2	1	2		1	2		1	1	1		1	2	35	environment
others	2	1			2		1		2	1	1	1	3	2		1		1	3	1	1			1	24	others
other equipment	2	3	1	5	1	2	1	1	2	1	2	1	1	2	1	1	3	3	1	2	2		1		39	other equipment
load	2			1	1		1		1										1		1				8	load

total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	19	575	total	
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Transition of Causal agents (Middle) of fatal and non-fatal accidents in 020209 other quarrying 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)
conveying machine	10	14	8	15	12	11	11	15	5	8	4	5	5	4	5	6	8	4	4	4	3	2	9	4	176	conveying machine
temporary buildings, establishments	8	8	9	6	3	6	5	3	3	4	1	4	3	3	2	4	1	3	6	5	4	1	3	4		temporary buildings, establishments
materials	2	3	3	1	2	3	2	4	4	5	3	3	2	2					1	1			2	4	47	materials
construction machine	7	6	7	2	3	2	3	3	3	3	2	3	2	1	2	2	2	3		2	1	2	3	3	67	construction machine
natural environment	3	4	2	2	2	1	2	1	1	2	1	2	1	2		1	2		1	1	1		1	2	35	natural environment
general machine	1	3	1	2	1	3	3	2	3	2	1	4	1		1	1	1	1		1		2	1	1	36	general machine
no causal agent		1			2		1		1	1	1	1	2	2				1	2	1	1			1	18	no causal agent
tools	2		1	3		1		1		1		1		2	1		2		1	1	1		1		19	tools
vehicle	1	1	1				1	2				1						1	1		1		4		14	vehicle
human power machine, tools		2		1	1	1										1		2		1	1				10	human power machine, tools
other equipments,		1		1			1		2		2		1				1	1							10	other equipments,

																						facilities
power transmission mechanism		1		1			1	1	1				1	1	1						8	power transmission mechanism
woodworking machine		1	2			2			1								1		1		8	woodworking machine
crane	1	1	1	1				1	1				1							1	8	crane
load	2			1	1		1		1							1		1			8	load
other causal agent	2								1		1					1					5	other causal agent
metal manufacturing machine				1	1									1							3	metal manufacturing machine
hazards, harmful substances						1							1						1		3	hazards, harmful substances
unclassifiable													1								1	unclassifiable
engine																						engine
mobile silviculture machine																						mobile silviculture machine
pressure vessel																						pressure vessel
chemical facilities																						chemical facilities
welding equipment																						welding

																										equipment
kiln, caldron																										kiln, caldron
electric equipment																										electric equipment
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	19	575	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 020209 other quarrying 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
stone, sand, substance			2				1	1	4	3	1	2	1	2					1	1				4	23	stone, sand, substance
passage			1		1			2	1	1		2		3		1	1	1	4	2	1	1	1	3	26	passage
conveyor			3		7		7	9	2	3	2	3	3	3	1	3	2	3	2	4	1		1	2	61	conveyor
truck			4		4		4	6	2	5	2	2	2	1	4	3	5	1	1		2	2	6	2	58	truck
excavating machine			3		1		2	3	3	2	1	2	1		2	1	2	2		1		1	3	2	32	excavating machine
no causal agent					2		1		1	1	1	1	2	2				1	2	1	1			1	17	no causal agent
other general power machines					1		2	1		1		3	1			1	1	1		1		1	1	1	16	other general power machines
natural ground, rock			1		1			1	1	2	1		1	1			1				1		1	1	13	natural ground, rock
building, establishment			1		1		1			2		1	1					1		1	1		1	1	12	building, establishment
other environments			1				2					1		1		1								1	7	other environments
other construction machines														1										1	2	other construction machines

leveling,																						leveling,
transporting or		4	1	1			1	1	1	1					1			1			12	transporting or
loading machine																						loading machine
cars, bus,		1		1	2				1						1	1		1		3	11	cars, bus,
motorcycle				<u> </u>					'						'	'		'		3		motorcycle
working platform,		2	1							1		1	1		1	1		1			10	working platform,
boot board		3	'									ı			1	1		'				boot board
metal material			1	1	3		1	2												2	10	metal material
mixer, grinder		1		1	1	3	1	1				1									9	mixer, grinder
stairs, landing stage				3	1	1		1				1				1	1				9	stairs, landing stage
ladder							1				2	1		1			1	1		1	8	ladder
other equipment,				1		2		2		1				1	1						8	other equipment,
facilities														ľ	•							facilities
power transmission				1		1							1	1	1						6	power transmission
mechanism				Ľ		ľ							ľ		1							mechanism
other temporary																						other temporary
buildings,		1		1					1	1			1				1				6	buildings,
establishments																						establishments
load			1	1		1										1		1			5	load
standing tree			1						1					1		1	1				5	standing tree
demolition machine			1										1				1		1		4	demolition machine
forklift		1	1											1						1	4	forklift
other tools					1				1					1		1					4	other tools
scaffolding		2				1												1			4	scaffolding
mobile crane						1							1							1	3	mobile crane

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human power cranes			1											1		1					3	human power cranes
hand tool												1		1			1				3	hand tool
lumber, bamboo		1						1	1												3	lumber, bamboo
other causal agent							1			1					1						3	other causal agent
circular sawing machine		1														1					2	circular sawing machine
chain saw		1																1			2	chain saw
loader															1				1		2	loader
opening		1						1													2	opening
other materials			1							1											2	other materials
other woodworking machines							1														1	other woodworking machines
drill press, milling machine													1								1	drill press, milling machine
grinding machine, buffing machine			1																		1	grinding machine, buffing machine
food manufacturing machine																		1			1	food manufacturing
industrial robot									1												1	industrial robot
crane						1															1	crane
other powered crane		1																			1	other powered crane
other powered							1														1	other powered

conveying machines															conveying machines
other vehicles													1	1	other vehicles
slinging tool		1												1	slinging tool
timbering													1	1	timbering
roof, beam, haze,															roof, beam, haze,
crossbeam,									1					1	crossbeam,
principal rafter															principal rafter
inflammable												1		1	inflammable
substance												I			substance
other hazards,									1					1	other hazards,
harmful substances															harmful substances
unclassifiable									1					1	unclassifiable
engine															engine
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
foundation work															foundation work

machine													machine
hardening machine													hardening machine
vehicle for high lift													vehicle for high lift
work													work
lathe													lathe
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
printing machine													printing machine
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
railway equipment																		railway equipment
straddle carrier																		straddle carrier
rough terrain hauler																		rough terrain haule
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
	$== \models$	$\dashv \vdash \vdash$	╗	i			i	=	=	=		=	=	=	=	=		

other welding equipment	other welding
kiln, caldron	kiln, caldron
industrial dryer	industrial dryer
other kiln, caldron	other kiln, caldron
transmission	transmission
electric power facilities	electric power facilities
other electrical equipment	other electrical equipment
human power hauling equipment	human power hauling equipment
human power machine	human power machine
explosive substance	explosive substance
inflammable gas	inflammable gas
harmful substance	harmful substance
radiation	radiation
machine/equipment as load	machine/equipment as load
water	water
abnormal environment	abnormal environment
high/cold temperature	high/cold temperature

environment																										environment
total	39	46	35	37	28	31	31	1144	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	19	575	total

Transition of workers' age groups of fatal and non-fatal accidents in 020209 other quarrying 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	12	12	9	14	10	9	9	11	9	9	5	9	3	6	4	5	3	7	3	7	4		8	9	177	50-59
60 years old or	5	12	5	10	5	3	8	9	6	4	3	7	4	2	4	5	6	4	6	4	6	4	13	6	141	60 years old or
more												,						•		r		•				more
40-49	7	13	6	6	7	8	6	5	4	8	4	6	5	4	3	5	5	1	6	2	2	3	2	2	120	40-49
20-29	10	5	8	2	3	2	2		3	3	2			1		1	1	3		3		1	1	2	53	20-29
30-39	5	4	7	4	3	8	6	6	4	2	1	2	6	3		2	4	2	3	2	1	1	1		77	30-39
19 years old or less				1		1		2	1							1					1				7	19 years old or less
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	19	575	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 020209 other quarrying 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	17	21	17	12	10	16	12	17	15	12	6	12	8	5	7	6	7	3	9	9	6	5	12	11	255	10-29
9 workers or less	16	14	14	14	16	12	12	10	6	10	7	8	8	8	3	8	9	6	4	7	3	3	7	6	211	9 workers or less
30-49	5	5	2	8	1	2	4	5	2	3		2	1	3		4	2	5	2		2		2	1	61	30-49
50-99	1	6	1	3	1		3	1	1	1	1	1	1		1		1	2	1	2			4	1	33	50-99
100-299			1			1			3		1	1				1		1	2		3	1			15	100-299
300 workers or																										300 workers or
more																										more
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	19	575	total

Transition of occured months of fatal and non-fatal accidents in 020209 other quarrying 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
September	6	1	5	9	2	3	3	4	1	3	1	5	1		3	4	2		1	2	3	1	1	3	64	September
March	1	8	6	4	5	1	2	4	5	2	5	2		2		1	2	1	2		2	1	3	3	62	March
July	2	1	2	2	1	1			4	3	1	1			1	1	1			3	1	1	2	3	31	July
February	3	4	3	4	2	6	3	3	3		1	1	2	3			3	1	2	1	2		3	2	52	February
October	3	5	2	1	2	2	3	3	2	6	1	3	2	1	2		2	2		3	1	2	1	2	51	October
November	5	8	4	1	1	1	3	1		1	1	2	1	3		3	2	1	1	2	2		1	2	46	November
January	2	3	2	2	2	2	2	1		1	1	1	1	1		3	2	1			1		2	2	32	January
August		6	2	5	1	1	5	4	1	1	1	1	1	1	2	2	2	1	2	1		3	4	1	48	August
April	2	1	4	3	2	4	5	1	3	4	1	2	3	1		2		4	2	1			1	1	47	April
June	7	5	2	1	3	4		7	4	3	1	2	3	2		1	2	2	1		2		5		57	June
May	2	2	3	4	3	3	2	3	3	2		2	1	2	2		1	4	3				1		43	May
December	6	2		1	4	3	3	2	1		1	2	3		1	2			4	5		1	1		42	December
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	19	575	total

Transition of prefectures of fatal and non-fatal accidents in 020209 other quarrying 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
Yamagata	2	5			1		1	1	2			1	2					1	1		1	1	2	3	24	Yamagata
Hyogo	3						1		1					1	2	2	2	1	1	1	2			3	20	Hyogo
Tochigi	2	3	5		2		1	3	1	2	3	2		2	1	2		2		1	5		2	2	41	Tochigi
Kagoshima	1	1	2		1			1		1	1	1		1	2		1		1	1				2	17	Kagoshima
Okayama	1						1												1			1		2	6	Okayama

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Nagano	1	2	3		1	2		3	3	1	2		1	1			1		1			2	1	25	Nagano
Shimane	1				1	1	2	1	2	1	2	2		1	1	2				1	2	1	1	22	Shimane
lwate	1	1	2			1	2	1	2		2	1	1		1	1			1			1	1	19	lwate
Miyagi						1	1	2				1			2	3	3		2	1		1	1	18	Miyagi
Chiba		3	1		1		1	3			2	1							1		1	2	1	17	Chiba
Shizuoka	1				1	1				2	1				1			1	3	1		1	1	14	Shizuoka
Osaka								2								1		1					1	5	Osaka
Hokkaido	1	2	2		1	1	3		2	1	2		2	1	1	2	1	1	2			1		26	Hokkaido
Niigata	1	3	2		1	1	2		1				2			1		1				5		20	Niigata
Gunma	3	5	1		2	1	1	2	2								1					1		19	Gunma
Mie		3	3		1	3			1	1	1		1		1	1				1				17	Mie
Ehime			1		1	5	2	1	3	1	1			1										16	Ehime
Kumamoto	2				2		3	1	1				1		1	2		1		1				15	Kumamoto
Fukushima		1	1		2	1									1		3	2	1			1		13	Fukushima
Gifu		2	1		1		1	1	3	1			1		1				1					13	Gifu
Toyama	3		2			1			1			1		1				1						10	Toyama
Hiroshima		1				1		1									1	2	1	1	2			10	Hiroshima
Oita	3	1				2	2					1										1		10	Oita
Miyazaki	1		2				1				2	1										2		9	Miyazaki
Saitama		3			1						2				1		1							8	Saitama
Nara							2	1				2		1		2								8	Nara
Yamanashi	1				1					1		2										2		7	Yamanashi
Kyoto	3		1						1			1			1									7	Kyoto
	_				=		i——					i—	i	i		i		-					i		

Tottori		1			1		2					1								1					6	Tottori
Kochi			2				1	2			1														6	Kochi
Fukuoka	1		1		1									1					1			1			6	Fukuoka
Akita	2		1				1										1								5	Akita
Ibaraki		1							1			1				1			1						5	Ibaraki
Fukui	1	4																							5	Fukui
Shiga					2					1	1											1			5	Shiga
Aomori									1			1	1					1							4	Aomori
Tokyo		1	1		1															1					4	Tokyo
Kanagawa	1		1					1	1																4	Kanagawa
Ishikawa	1				1		1	1																	4	Ishikawa
Aichi	2	2																							4	Aichi
Kagawa														1				1	2						4	Kagawa
Nagasaki								1	1				1	1											4	Nagasaki
Saga		1														1									2	Saga
Wakayama													1												1	Wakayama
Yamaguchi					1																				1	Yamaguchi
Okinawa																1									1	Okinawa
Tokushima																										Tokushima
total	39	46	35	37	28	31	31	33	27	26	15	24	18	16	11	19	19	17	18	18	14	9	25	19	575	total

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