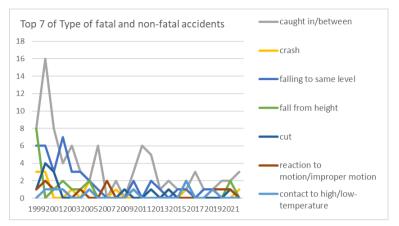
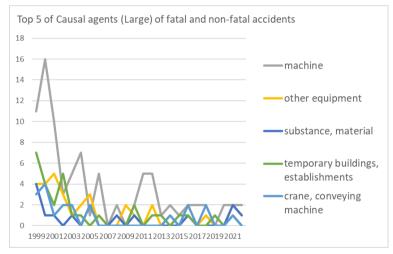
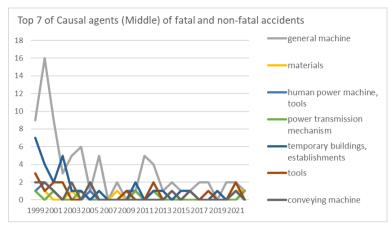
Transition of fatal and non-fatal accidents in 010201 silk-reeling in Japan (1999-2022)



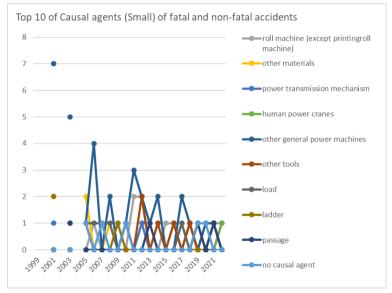
Transition of Top 7 of Type of fatal and non-fatal accidents in 010201 silk-reeling in Japan (1999-2022)



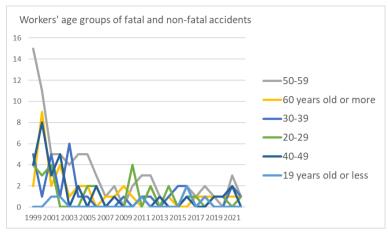
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 010201 silk-reeling in Japan (1999-2022)



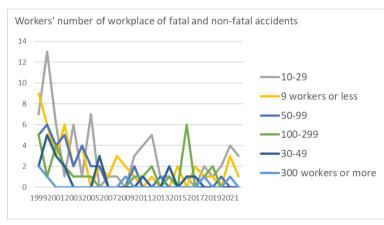
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 010201 silk-reeling in Japan (1999-2022)



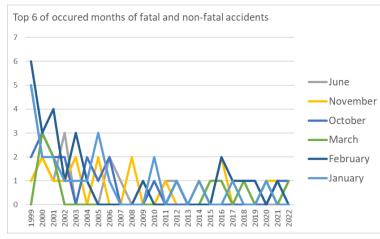
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 010201 silk-reeling in Japan (1999-2022)



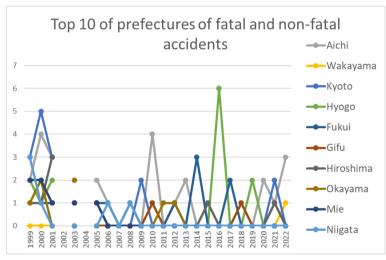
Transition of workers' age groups of fatal and non-fatal accidents in 010201 silk-reeling in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 010201 silk-reeling in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 010201 silk-reeling in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 010201 silk-reeling in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 010201 silk-reeling 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	8	16	8	4	6	3	2	6		2		3	6	5	1	2	1	1	3	1	1	2	2	3	86	caught in/between
crash	3	3			1		2			1						1		1						1	13	crash

falling to same level	6	6	3	7	3	3	2	1				2	2	1		1	1	1	1			40	falling to same level
fall from height	8		1	2	1	1	2				1										2	18	fall from height
cut	1	4	3				1				1		1		1		2				1	15	cut
reaction to motion/improper motion	1	2	1	1		1			2			1							1	1	1	12	reaction to motion/improper motion
contact to high/low- temperature		1	1	1			1					1					2		1			8	contact to high/low- temperature
crashed by	2		1			1											1				1	6	crashed by
contact to harmful substance	1		1																		1		contact to harmful substance
traffic accident (public road)				1														2				3	traffic accident (public road)
struck by flying or falling object			1							1												2	struck by flying or falling object
collapse						1																1	collapse
electric shock																		1				1	electric shock
others											1											1	others
injury to the sole of the foot																							injury to the sole of the foot
drown																							drown
explosion																							explosion

burst																										burst
fire																										fire
traffic accident																										traffic accident
(others)																										(others)
unclassifiable																										unclassifiable
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 010201 silk-reeling 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
machine	11	16	10	3	5	7	1	5		2		2	5	5	1	2	1	2	2	2		2	2	2	88	machine
other equipment	4	4	5	3	1	2	3				2	1		2		1		2		1			2	1	34	other equipment
substance, material	4	1	1		1		2			1		1						1					2	1	15	substance, material
temporary buildings, establishments	7	4	2	5	1	1		1				2		1	1		1	1			1		1		29	temporary buildings, establishments
crane, conveying machine	3	4	1	2	2		2									1		2		2			1			crane, conveying machine
load	1	3		1	1		1	1	1	1									1		1				12	load
others				2			1		1		1	1	1								2	1			10	others
environment			1																						1	environment
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209	total

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) agents
general machine	9	16	9	3	5	6	1	5		2		1	5	4	1	2	1	1	2	2		2	2	1	80	general machine
materials	3	1			1		2			1													1	1	10	materials
human power machine, tools	1	2	1				1				1	1												1	8	human power machine, tools
power transmission mechanism	1		1			1						1		1										1	6	power transmission mechanism
temporary buildings, establishments	7	4	2	5	1	1		1				2		1	1		1	1			1		1			temporary buildings, establishments
tools	3	1	2	2			2				1			2		1		1		1			2		18	tools
conveying machine	2	2	1		2		2									1		1					1		12	conveying machine
load	1	3		1	1		1	1	1	1									1		1				12	load
no causal agent				2			1		1			1									1	1			7	no causal agent
other equipments, facilities		1	1		1	1												1								other equipments, facilities
																										hazards,

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 010201 silk-reeling in Japan (1999-2022)

hazards, harmful	1		1						1				1			1	5	harmful
substances																		substances
crane	1	1		1									1				4	crane
vehicle		1		1										2			4	vehicle
other causal agent								1		1					1		3	other causal agent
pressure vessel			1	1													2	pressure vessel
woodworking machine													1				1	woodworking machine
metal manufacturing machine	1																1	metal manufacturing machine
kiln, caldron					1												1	kiln, caldron
natural environment			1														1	natural environment
engine																		engine
construction machine																		construction machine
mobile silviculture machine																		mobile silviculture machine
chemical facilities																		chemical facilities
welding equipment																		welding equipment

electric equipment																										electric equipment
unclassifiable																										unclassifiable
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 010201 silk-reeling 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
roll machine (except printingroll machine)			2					1					2	2			1	1		1		1	1	1	13	roll machine (except printingroll machine)
other materials					1		2			1														1	5	other materials
power transmission mechanism			1									1		1										1	4	power transmission mechanism
human power cranes																								1	1	human power cranes
other general power machines			7		5		1	4		2		1	3	2	1	2			2	1		1	1		33	other general power machines
other tools							1							2		1		1		1			1		7	other tools
load					1		1	1	1	1									1		1				7	load
ladder			2				1				1												1		5	ladder
passage					1							1			1						1		1		5	passage
no causal agent							1		1			1									1	1			5	no causal agent
conveyor					1		1									1		1							4	conveyor
other equipment,			1		1													1							3	other equipment,

facilities																		facilities
other causal agent							1		1						1		3	other causal agent
truck				1												1	2	truck
forklift		1	1														2	forklift
cars, bus,														2			2	cars, bus,
motorcycle														Z			2	motorcycle
human power				1				1									2	human power
hauling equipment																		hauling equipment
hand tool		1					1										2	hand tool
stairs, landing stage		1										1					2	stairs, landing stage
building, establishment		1											1				2	building, establishment
harmful substance		1						1									2	harmful substance
other hazards, harmful substances													1			1	2	other hazards, harmful substances
other woodworking machines													1				1	other woodworking machines
crane													1				1	crane
pressure vessel		1															1	pressure vessel
scaffolding										1							1	scaffolding
roof, beam, haze,																		roof, beam, haze,
crossbeam,								1									1	crossbeam,
principal rafter																		principal rafter
other temporary																		other temporary
buildings,					1												1	buildings,

establishments														establishments
lumber, bamboo												 1	1	lumber, bamboo
high/cold temperature environment		1											1	high/cold temperature environment
engine														engine
circular sawing machine														circular sawing machine
band sawing machine														band sawing 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
leveling, transporting or loading machine														leveling, transporting or loading machine
excavating machine														excavating machine
foundation work														foundation work

machine													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, buffing machine													grinding machine, buffing machine
power press													power press
forging pressure hammer													forging pressure hammer
shearing machine													shearing machine
other metal manufacturing machines													other metal manufacturing machines
centrifugal machine													centrifugal machine
mixer, grinder													mixer, grinder
injection molding machine													injection molding machine
food manufacturing													food manufacturing

machine														machine
printing machine														printing machine
industrial robot														industrial robot
felling machine													1	felling machine
mobile logging machine														mobile logging machine
skyline yarding machine														skyline yarding machine
other mobile silviculture machine														other mobile silviculture machine
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, logging cableway
simple skyline yarding equipment														simple skyline yarding equipment
other powered crane														other powered crane
railway equipment														railway equipment
loader														loader

	 <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	 		L			<u> </u>				
straddle carrier															straddle carrier
rough terrain hauler															rough terrain hauler
other powered															other powered
conveying machines															conveying machines
railway vehicle															railway vehicle
other vehicles															other vehicles
boiler															boiler
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
ndustrial 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 machine														numan power
slinging tool								 						slinging tool
timbering								 						timbering
opening								 						opening
working platform, boot board								 						working platform, poot board
explosive substance														explosive substance
inflammable substance														nflammable substance
inflammable gas													i	nflammable gas
radiation														radiation
metal material														metal material
stone, sand, substance														stone, sand, substance
machine/equipment as load														machine/equipment as load
natural ground, rock														natural ground, rock
standing tree													5	standing tree
water													N	water
abnormal environment														abnormal environment
other environments														other environments

unclassifiable																										unclassifiable
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209	total

Transition of workers' age groups of fatal and non-fatal accidents in 010201 silk-reeling 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	15	11	5	5	4	5	5	3	1	2		2	3	3	1			2	1	2	1		3	1	75	50-59
60 years old or more	2	9	2	4	1	2	2		1	1	2	1		2		1			1	1	1	1	1	1	36	60 years old or more
30-39	5	1	5	1	6	1	1				1		1	1		1	2	2		1			2	1	32	30-39
20-29	4	3	4				2	2				4		2		2		1	1		1	1		1	28	20-29
40-49	4	8	3	5		2		2		1			1		1			1			1	1	2		32	40-49
19 years old or less			1	1									1					2		1					6	19 years old or less
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 010201 silk-reeling 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	7	13	6	1	6	1	7		1	1		3	4	5	1	1		1		2	1	2	4	3	70	10-29
9 workers or less	9	6	3	6	2	4		2	1	3	2	1		1			2		2	1	1		3	1	50	9 workers or less
50-99	5	6	4	5	2	4	2	2				2			1							1			34	50-99
100-299	5	1	4	2	1	1	1					1	1	2		1		6		1	2				29	100-299
30-49	2	5	3	2				3					1			2		1	1						20	30-49
300 workers or	2	1									1									1			1		6	300 workers or
more	2										l												<u> </u>		0	more
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209	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
June	5	2	1	3				2	1				1	1		1								1	18	June
November	1	2	1	1	2		2			2			1			1		2				1	1	1	18	November
October	2	3	2	2		2	1	2				1											1	1	17	October
March		3	2											1			1	1		1		1		1	11	March
February	6	3	4	1	3	1					1			1				2	1	1	1		1		26	February
January	5	2	2	1	1	1	3	1				2		1		1			1			1			22	January
December	2	3		1	3	1	2				2		2	1						1			3		21	December
September	3	3	1	2			1			1			1				1	3		1	1				18	September
April	2	7		1	1	1		1	1						1						2				17	April
July	2	2	3			2						2	1	3		1							1		17	July
August	1	1	4	1			1	1		1					1				1				1		13	August
May	1	1		3	1	2						2								1					11	May
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209	total

Transition of occured months of fatal and non-fatal accidents in 010201 silk-reeling in Japan (1999-2022)

Transition of prefectures of fatal and non-fatal accidents in 010201 silk-reeling 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
Aichi	2	4	3		2		2	1		1		4		1	2		1			1		2	1	3	30	Aichi
Wakayama																								1	1	Wakayama
Kyoto	3	5	3		1		1	1			2			1									2		19	Kyoto
Нуодо	2	1	2									1						6			2				14	Нуодо
Fukui	1	1	1				1	1		1				1		3			2						12	Fukui

Gifu	2	2	1	1						1							1			1	9	Gifu
Hiroshima	1	1	3	1	1									1						1	9	Hiroshima
Okayama	1	2		2	1						1	1									8	Okayama
Mie	2	2	1	1	1																7	Mie
Niigata	3	1				1		1													6	Niigata
Shiga		2									1	2							1		6	Shiga
Fukushima	1	1	1			2															5	Fukushima
Kanagawa				1					1		2									1	5	Kanagawa
Ishikawa	3															1		1			5	Ishikawa
Nagano	1	2					1											1			5	Nagano
Osaka				1			1				1	1								1	5	Osaka
Nara	1		2								1						1				5	Nara
Miyazaki	2		1			1									1						5	Miyazaki
Fukuoka	1	1						1				1									4	Fukuoka
Saitama	1	2																			3	Saitama
Tokyo					1												2				3	Tokyo
Yamaguchi	1	1	1																		3	Yamaguchi
Kochi		3																			3	Kochi
Chiba															1					1	2	Chiba
Nagasaki		1			1																2	Nagasaki
Miyagi	1																				1	Miyagi
Yamagata			1																		1	Yamagata
Ibaraki				1																	1	Ibaraki

Gunma																1									1	Gunma
Toyama							1																		1	Toyama
Shizuoka	1																								1	Shizuoka
Kagoshima												1													1	Kagoshima
Hokkaido																										Hokkaido
Aomori																										Aomori
lwate																										lwate
Akita																										Akita
Tochigi																										Tochigi
Yamanashi																										Yamanashi
Tottori																										Tottori
Shimane																										Shimane
Tokushima																										Tokushima
Kagawa																										Kagawa
Ehime																										Ehime
Saga																										Saga
Kumamoto																										Kumamoto
Oita																										Oita
Okinawa																										Okinawa
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209	total

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