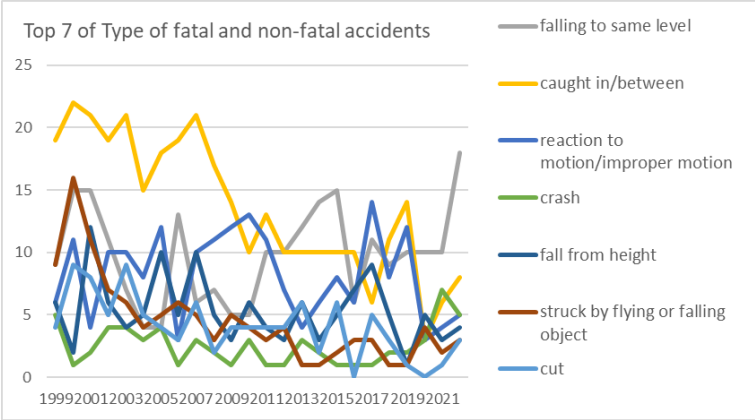
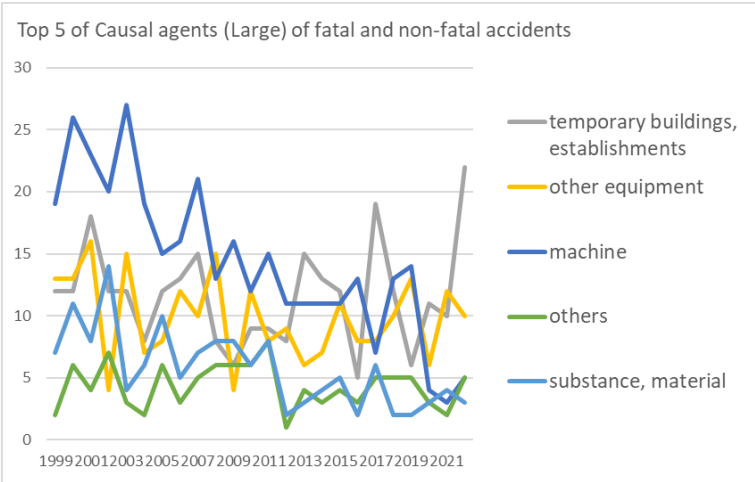
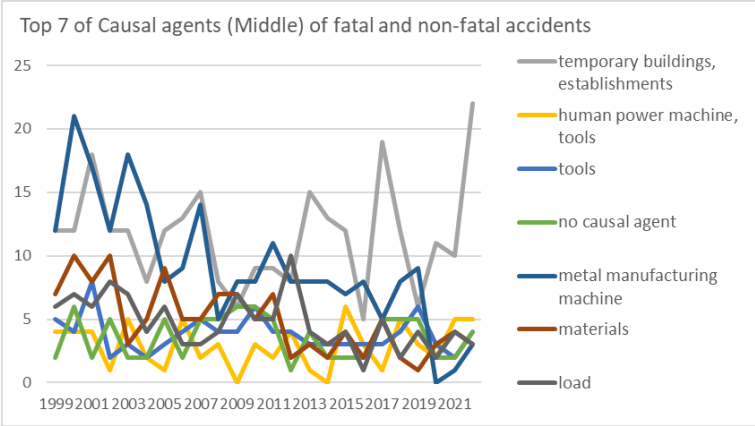
Transition of fatal and non-fatal accidents in 011302 measuring instruments in Japan (1999-2022)



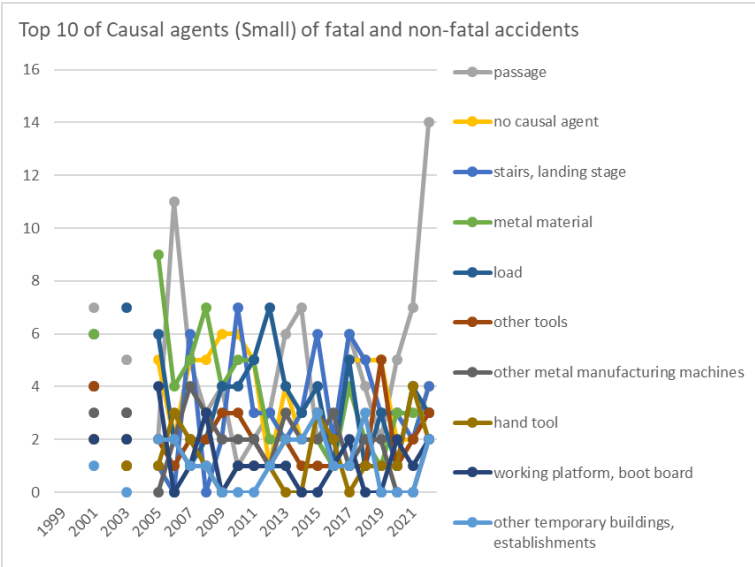
Transition of Top 7 of Type of fatal and non-fatal accidents in 011302 measuring instruments in Japan (1999-2022)



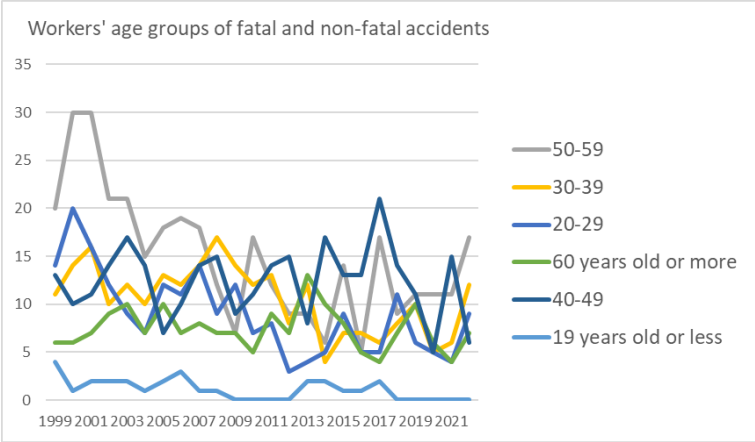
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 011302 measuring instruments in Japan (1999-2022)



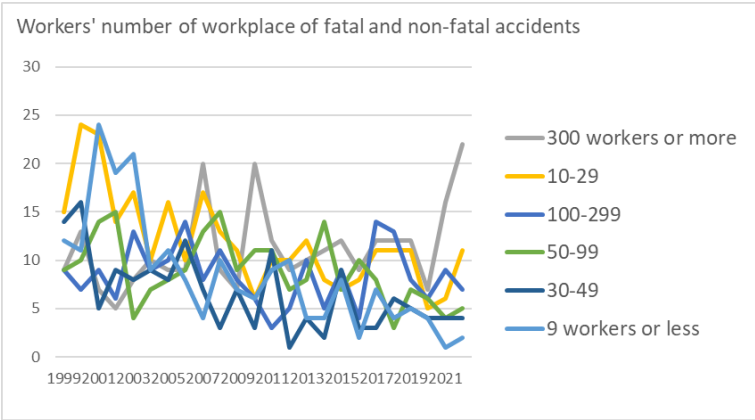
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 011302 measuring instruments in Japan (1999-2022)



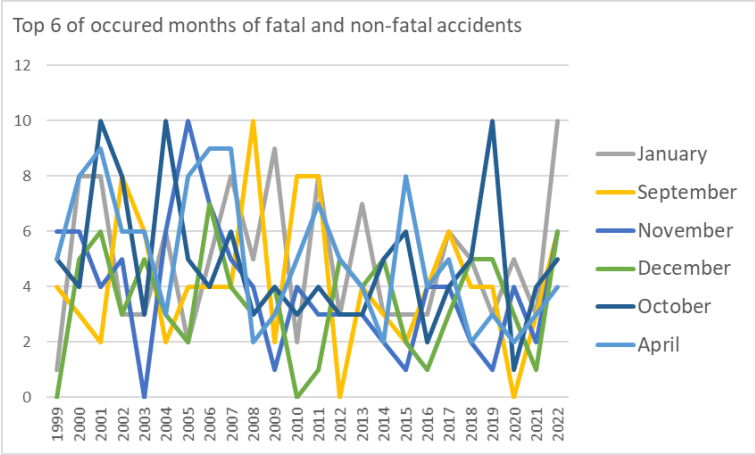
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 011302 measuring instruments in Japan (1999-2022)



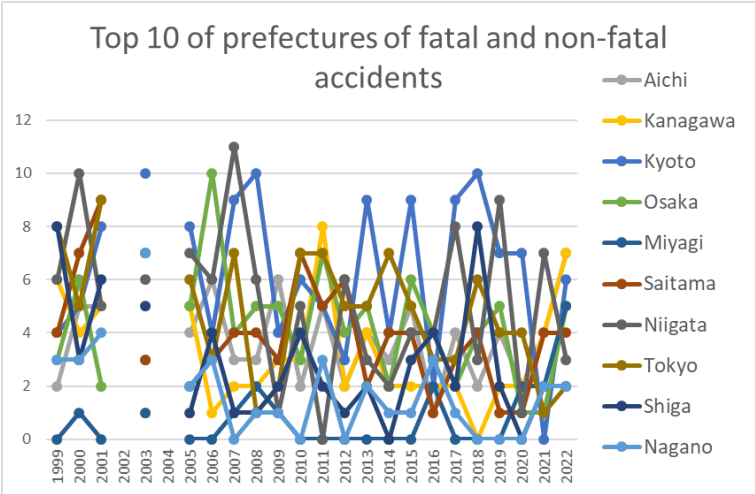
Transition of workers' age groups of fatal and non-fatal accidents in 011302 measuring instruments in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 011302 measuring instruments in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 011302 measuring instruments in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 011302 measuring instruments in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 011302 measuring instruments 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	9	15	15	11	7	4	4	13	6	7	5	5	10	10	12	14	15	6	11	9	10	10	10	18	236	falling to same level
caught in/between	19	22	21	19	21	15	18	19	21	17	14	10	13	10	10	10	10	10	6	11	14	3	6	8	327	caught

																										in/between
reaction to motion/improper motion	6	11	4	10	10	8	12	3	10	11	12	13	11	7	4	6	8	6	14	8	12	3	4	5	198	reaction to motion/improper motion
crash	5	1	2	4	4	3	4	1	3	2	1	3	1	1	3	2	1	1	1	2	2	3	7	5	62	crash
fall from height	6	2	12	6	4	5	10	5	10	5	3	6	4	3	6	3	5	7	9	5	1	5	3	4	129	fall from height
struck by flying or falling object	9	16	11	7	6	4	5	6	5	3	5	4	3	4	1	1	2	3	3	1	1	4	2	3	109	struck by flying or falling object
cut	4	9	8	5	9	5	4	3	6	2	4	4	4	4	6	2	6		5	3	1		1	3	98	cut
collapse	3				1	4		2	1	4	1	3	3	2		1	1	1		2		1	1	3	34	collapse
contact to harmful substance		1		1			1		1		1	1				2	1		1		1			1	12	contact to harmful substance
unclassifiable																								1	1	unclassifiable
crashed by	3	2	3		5	5		2	1	5	2	1	2	1	1		1		1	5	2	1	3		46	crashed by
traffic accident (public road)	2	1	6	1	1		2	5	3						2				1	1	2				27	traffic accident (public road)
contact to high/low-temperature	1	1		3	2		1	2	1	4			1		1			1	2	2		1	3		26	contact to high/low-temperature
others				1			1	1		1	1	1	3		1	1	2	1	1		1	1			17	others
fire									1							2									3	fire
electric shock												1									1				2	electric shock
explosion					1								1												2	explosion
injury to the sole of																										injury to the sole

the foot						1																			1	of the foot
burst															1										1	burst
traffic accident (others)	1																								1	traffic accident (others)
drown																										drown
total	68	81	82	68	71	54	62	62	69	61	49	52	56	42	48	44	52	36	55	49	48	32	40	51	1,332	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 011302 measuring instruments 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
temporary buildings, establishments	12	12	18	12	12	8	12	13	15	8	6	9	9	8	15	13	12	5	19	12	6	11	10	22	279	temporary buildings, establishments
other equipment	13	13	16	4	15	7	8	12	10	15	4	12	8	9	6	7	11	8	8	10	13	6	12	10	237	other equipment
machine	19	26	23	20	27	19	15	16	21	13	16	12	15	11	11	11	11	13	7	13	14	4	3	5	345	machine
others	2	6	4	7	3	2	6	3	5	6	6	6	8	1	4	3	4	3	5	5	5	3	2	5	104	others
substance, material	7	11	8	14	4	6	10	5	7	8	8	6	8	2	3	4	5	2	6	2	2	3	4	3	138	substance, material
load	6	7	6	8	7	4	6	3	3	4	7	5	5	10	4	3	4	1	5	2	4	2	4	3	113	load
crane, conveying machine	9	6	7	2	3	7	5	10	8	6	2	2	2		5	1	4	3	1	4	4	2	4	3	100	crane, conveying machine
environment				1		1				1			1	1		2	1	1	4	1		1	1		16	environment

total	68	81	82	68	71	54	62	62	69	61	49	52	56	42	48	44	52	36	55	49	48	32	40	51	1,332	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 011302 measuring instruments 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) agents
temporary buildings, establishments	12	12	18	12	12	8	12	13	15	8	6	9	9	8	15	13	12	5	19	12	6	11	10	22	279	temporary buildings, establishments
human power machine, tools	4	4	4	1	5	2	1	5	2	3		3	2	4	1		6	3	1	5	3	2	5	5	71	human power machine, tools
tools	5	4	8	2	3	2	3	4	5	4	4	6	4	4	3	3	3	3	3	4	6	3	2	4	92	tools
no causal agent	2	6	2	5	2	2	5	2	5	5	6	6	5	1	4	2	2	2	5	5	5	2	2	4	87	no causal agent
metal manufacturing machine	12	21	17	12	18	14	8	9	14	5	8	8	11	8	8	8	7	8	5	8	9		1	3	222	metal manufacturing machine
materials	7	10	8	10	3	5	9	5	5	7	7	5	7	2	3	2	4	2	5	2	1	3	4	3	119	materials
load	6	7	6	8	7	4	6	3	3	4	7	5	5	10	4	3	4	1	5	2	4	2	4	3	113	load
conveying machine	5	2		1	1	3	3	4	2	3	2	2			3	1	2	3		1	1	2	3	2	46	conveying machine
general machine	7	4	4	6	8	4	4	7	6	6	7	2	3	2	2	3	3	5	2	5	5	4	2	1	102	general machine
other equipments, facilities	3	3	4	1	6	3	1	2	2	4		2	2	1	2	4	1	1	4		3		4	1	54	other equipments, facilities

crane	2	3	2		1	4	1	1	2	3			2		1					2	1			1	26	crane
woodworking machine			1		1					2	1	1					1							1	8	woodworking machine
unclassifiable			1	1	1												1							1	5	unclassifiable
vehicle	2	1	5	1	1		1	5	4						1		2		1	1	2		1		28	vehicle
hazards, harmful substances		1		4	1	1	1		2	1	1	1	1			2	1		1		1				19	hazards, harmful substances
natural environment				1		1				1			1	1		2	1	1	4	1		1	1		16	natural environment
other causal agent			1	1			1	1		1			3			1	1	1				1			12	other causal agent
electric equipment	1	1					1	1		4							1				1	1			11	electric equipment
power transmission mechanism		1	1				3		1				1	1	1										9	power transmission mechanism
welding equipment		1			1							1						1							4	welding equipment
engine				1								1													2	engine
construction machine				1		1																			2	construction machine
pressure vessel							1																1		2	pressure vessel
kiln, caldron									1											1					2	kiln, caldron
chemical facilities							1																		1	chemical

																										facilities
mobile silviculture machine																										mobile silviculture machine
total	68	81	82	68	71	54	62	62	69	61	49	52	56	42	48	44	52	36	55	49	48	32	40	51	1,332	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 011302 measuring instruments 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
passage			7		5		2	11	5	3	4	1	2	3	6	7	2	1	6	4	2	5	7	14	97	passage
no causal agent			2		2		5	2	5	5	6	6	5	1	4	2	2	2	5	5	5	2	2	4	72	no causal agent
stairs, landing stage			6		3		1		6		2	7	3	3	2	3	6	2	6	5	3	3	2	4	67	stairs, landing stage
metal material			6		2		9	4	5	7	4	5	5	2	2	2	2	1	4	2	1	3	3	3	72	metal material
load			4		7		6	2	1	2	4	4	5	7	4	3	4	1	5	1	3	1	4	3	71	load
other tools			4		1		2	1	2	2	3	3	2	1	2	1	1	1	1	1	5	1	2	3	39	other tools
other metal manufacturing machines			3		3			2	4	3	2	2	2	1	3	2	2	3	1	2	2			2	39	other metal manufacturing machines
hand tool			2		1		1	3	2	1		1	1	1			3	2		1	1	1	4	2	27	hand tool
working platform, boot board			2		2		4		1	3		1	1	1	1			1	2			2	1	2	24	working platform, boot board
other temporary buildings, establishments			1				2	2	1	1				1	2	2	3	1	1	3				2	22	other temporary buildings, establishments
forklift					1		1	1	1	2	1							1		1	1		1	2	13	forklift
human power																										human power

cranes																							1	2	3	cranes
other general power machines			4		5		3	6	4	5	6	1	2	1	2	3	3	4	1	4	4	3	2	1	64	other general power machines
other equipment, facilities			4		6		1	2	2	4		2	2	1	2	4	1	1	4		3		4	1	44	other equipment, facilities
power press			2		1		3	2	3		1	3	3			3	3	2	2	1	2		1	1	33	power press
human power hauling equipment			2		3			1		2		2	1	3	1		3	1	1	4	2	1		1	28	human power hauling equipment
crane			2		1		1	1	2	3			2		1									1	14	crane
circular sawing machine			1		1					2	1	1					1							1	8	circular sawing machine
slinging tool					1				1					1				1	1	1				1	7	slinging tool
unclassifiable			1		1												1							1	4	unclassifiable
ladder			4		1		1	3	2	2	1	3	2	2	1	2	2	1	1	2	1	2			33	ladder
lathe			6		4		1	2	2	2	3	2	1	4	1			2		1					31	lathe
drill press, milling machine			3		4		2	1	3		1	1	3	2	1	1	2	1		3	3				31	drill press, milling machine
grinding machine, buffing machine			2		4		2	1	2		1		2	1	2	2			2	1	2				24	grinding machine, buffing machine
cars, bus, motorcycle			5		1		1	5	4						1		2		1	1	2		1		24	cars, bus, motorcycle
building, establishment			2		2		3		1				3		4		1		4		1	1			22	building, establishment
machine/equipment			2					1	2	2	3	1		3						1	1	1			17	machine/equipment

as load																										as load
truck							1	1	1			1			3			2				2	2		13	truck
other materials			2					1			3		2		1		1	1					1		12	other materials
other causal agent			1				1	1		1			3			1	1	1				1			11	other causal agent
power transmission mechanism			1				3		1				1	1	1										8	power transmission mechanism
other environments													1	1		2	1	1	2						8	other environments
conveyor							1	2			1	1				1	1								7	conveyor
roll machine (except printingroll machine)					1			1				1		1				1			1				6	roll machine (except printingroll machine)
shearing machine			1		2			1							1										5	shearing machine
printing machine					2				1	1	1														5	printing machine
other electrical equipment								1		3											1				5	other electrical equipment
other hazards, harmful substances									1	1							1		1		1				5	other hazards, harmful substances
high/cold temperature environment										1									1	1		1	1		5	high/cold temperature environment
harmful substance							1				1	1				1									4	harmful substance
injection molding machine							1						1							1					3	injection molding machine
industrial robot									1										1						2	industrial robot
mobile crane																				1	1				2	mobile crane

kiln, caldron									1											1					2	kiln, caldron
transmission																	1					1			2	transmission
electric power facilities							1			1															2	electric power facilities
human power machine					1			1																	2	human power machine
inflammable substance									1							1									2	inflammable substance
inflammable gas					1								1												2	inflammable gas
lumber, bamboo					1												1								2	lumber, bamboo
engine												1													1	engine
mixer, grinder																						1			1	mixer, grinder
elevator, lift																				1					1	elevator, lift
railway equipment										1															1	railway equipment
other powered conveying machines																	1								1	other powered conveying machines
boiler																							1		1	boiler
pressure vessel							1																		1	pressure vessel
chemical facilities							1																		1	chemical facilities
gas welding equipment																		1							1	gas welding equipment
arc welding equipment												1													1	arc welding equipment
other welding					1																				1	other welding

equipment																										equipment
scaffolding																1									1	scaffolding
opening									1																1	opening
roof, beam, haze, crossbeam, principal rafter										1															1	roof, beam, haze, crossbeam, principal rafter
stone, sand, substance																			1						1	stone, sand, substance
natural ground, rock																			1						1	natural ground, rock
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
other woodworking machines																										other woodworking machines
leveling,																										leveling,

transporting or loading machine																										transporting or loading machine
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
forging pressure hammer																										forging pressure hammer
centrifugal machine																										centrifugal machine
food manufacturing machine																										food manufacturing machine
felling machine																										felling machine
mobile logging machine																										mobile logging machine
skyline yarding machine																										skyline yarding machine
other mobile silviculture machine																										other mobile silviculture machine
derrick crane																										derrick crane
cargo lifting																										cargo lifting

appliance																										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
loader																										loader
straddle carrier																										straddle carrier
rough terrain hauler																										rough terrain hauler
railway vehicle																										railway vehicle
other vehicles																										other vehicles
other pressure vessels																										other pressure vessels
industrial dryer																										industrial dryer
other kiln, caldron																										other kiln, caldron
timbering																										timbering
explosive substance																										explosive substance
radiation																										radiation
standing tree																										standing tree
water																										water
abnormal																										abnormal

environment																										environment
total	68	81	82	68	71	54	62	62	69	61	49	52	56	42	48	44	52	36	55	49	48	32	40	51	1,332	total

Transition of workers' age groups of fatal and non-fatal accidents in 011302 measuring instruments 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	20	30	30	21	21	15	18	19	18	12	7	17	12	9	9	6	14	5	17	9	11	11	11	17	359	50-59
30-39	11	14	16	10	12	10	13	12	14	17	14	12	13	8	12	4	7	7	6	8	10	5	6	12	253	30-39
20-29	14	20	16	12	9	7	12	11	14	9	12	7	8	3	4	5	9	5	5	11	6	5	4	9	217	20-29
60 years old or more	6	6	7	9	10	7	10	7	8	7	7	5	9	7	13	10	8	5	4	7	10	6	4	7	179	60 years old or more
40-49	13	10	11	14	17	14	7	10	14	15	9	11	14	15	8	17	13	13	21	14	11	5	15	6	297	40-49
19 years old or less	4	1	2	2	2	1	2	3	1	1					2	2	1	1	2						27	19 years old or less
total	68	81	82	68	71	54	62	62	69	61	49	52	56	42	48	44	52	36	55	49	48	32	40	51	1,332	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 011302 measuring instruments 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
300 workers or more	9	13	7	5	8	10	9	9	20	9	7	20	12	9	10	11	12	9	12	12	12	7	16	22	270	300 workers or more
10-29	15	24	23	14	17	10	16	10	17	13	11	6	10	10	12	8	7	8	11	11	11	5	6	11	286	10-29
100-299	9	7	9	6	13	9	10	14	8	11	8	6	3	5	10	5	9	4	14	13	8	6	9	7	203	100-299
50-99	9	10	14	15	4	7	8	9	13	15	9	11	11	7	8	14	7	10	8	3	7	6	4	5	214	50-99
30-49	14	16	5	9	8	9	8	12	7	3	7	3	11	1	4	2	9	3	3	6	5	4	4	4	157	30-49
9 workers or less	12	11	24	19	21	9	11	8	4	10	7	6	9	10	4	4	8	2	7	4	5	4	1	2	202	9 workers or less
total	68	81	82	68	71	54	62	62	69	61	49	52	56	42	48	44	52	36	55	49	48	32	40	51	1,332	total

Transition of occured months of fatal and non-fatal accidents in 011302 measuring instruments 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
January	1	8	8	3	3	6	2	5	8	5	9	2	8	3	7	3	3	3	6	5	3	5	3	10	119	January
September	4	3	2	8	6	2	4	4	4	10	2	8	8		4	3	2	4	6	4	4		3	6	101	September
November	6	6	4	5		6	10	7	5	4	1	4	3	3	3	2	1	4	4	2	1	4	2	6	93	November
December		5	6	3	5	3	2	7	4	3	4		1	5	4	5	2	1	3	5	5	3	1	6	83	December
October	5	4	10	8	3	10	5	4	6	3	4	3	4	3	3	5	6	2	4	5	10	1	4	5	117	October
April	5	8	9	6	6	3	8	9	9	2	3	5	7	5	4	2	8	4	5	2	3	2	3	4	122	April
May	4	7	9	6	11	6	6	7	3	5	5	6	5	9	5	5	2	4	2	2	2	2	5	4	122	May
August	8	6	7	4	5	3	5	4	4	8	7	5	5	4	3	3	3	4	5	6	3	2	4	3	111	August
March	7	10	3	3	11	4	7	6	8	3	5	1		2	3	1	5	1	3	5	2	7	1	3	101	March
June	11	10	11	7	6	4	6	3	6	4	3	6	7	1	5	5	7	2	5	3	3		3	2	120	June
July	9	3	4	9	11	5	5	3	5	7	5	3	4	2	1	2	11	4	6	5	6	3	4	2	119	July
February	8	11	9	6	4	2	2	3	7	7	1	9	4	5	6	8	2	3	6	5	6	3	7		124	February
total	68	81	82	68	71	54	62	62	69	61	49	52	56	42	48	44	52	36	55	49	48	32	40	51	1,332	total

Transition of prefectures of fatal and non-fatal accidents in 011302 measuring instruments 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	5	5		7		4	6	3	3	6	2	5	2	4	3	5	1	4	2	4	2	4	7	86	Aichi
Kanagawa	6	4	5		1		5	1	2	2	3	3	8	2	4	2	2	2	2		2	2	4	7	69	Kanagawa
Kyoto	4	5	8		10		8	4	9	10	4	6	5	3	9	4	9	2	9	10	7	7		6	139	Kyoto
Osaka	3	6	2		3		5	10	4	5	5	3	7	4	5	2	6	4	2	4	5	1	1	5	92	Osaka
Miyagi		1			1				1	2	1							2				2	2	5	17	Miyagi

Saitama	4	7	9		3		2	3	4	4	3	7	5	6	2	4	4	1	3	4	1	1	4	4	85	Saitama
Niigata	6	10	5		6		7	6	11	6	1	5		6	3	2	4	4	8	3	9	1	7	3	113	Niigata
Tokyo	8	5	9		7		6	3	7	1	2	7	7	5	5	7	5	3	3	6	4	4	1	2	107	Tokyo
Shiga	8	3	6		5		1	4	1	1	2	4	2	1	2		3	4	2	8	2		2	2	63	Shiga
Nagano	3	3	4		7		2	3		1	1		3		2	1	1	3	1				2	2	39	Nagano
Shizuoka	2	4	4		4		5	10	11	2		2	6	2	2	2		1		2	2		1	1	63	Shizuoka
Chiba	3	2	1					2	2	1	2		1		1	1		3	2		1	1		1	24	Chiba
Yamanashi	2						1	1	3	2	1	1	1		2	3			1	1				1	20	Yamanashi
Iwate					1		1		1		1	2						1	2	1	2		1	1	14	Iwate
Tochigi		2	1		3		1			1			1	1		1				1			1	1	14	Tochigi
Fukushima			1				1			1			1	1	1			2	3					1	12	Fukushima
Toyama		1								1	1						1		1		1			1	7	Toyama
Fukui		1	4																					1	6	Fukui
Hyogo	3	5	3		5		2	1	4	3	1	1	1	1			2	1	1	1		3	2		40	Hyogo
Hiroshima	2	2	5		2		4	1	1	2	3	1		2	2		2		3		1	1	2		36	Hiroshima
Ibaraki	1	1					2	1	1	2	1	1	1			2	4		2		4	2	2		27	Ibaraki
Fukuoka	1	1	2		1					2	1	1		2	1	1	2		1				2		18	Fukuoka
Mie	5	1	1		1				1		1				1				1	1					13	Mie
Gunma	1	3						1		2				1			1		1	1	1				12	Gunma
Gifu			2		2				1		1	2				1							1		10	Gifu
Kagawa		2	2									1		1		1				2					9	Kagawa
Aomori											1				1	1	1				1	3			8	Aomori
Ehime									1		2			1		2				1					7	Ehime

Akita	1		1							1					1					1		1			6	Akita
Wakayama	1		1								1					1		1			1				6	Wakayama
Hokkaido					1		1	1			1		1												5	Hokkaido
Yamagata		2						1		1				1											5	Yamagata
Yamaguchi		1	1					1														1	1		5	Yamaguchi
Okayama					1					2	1														4	Okayama
Kochi		1									1	1				1									4	Kochi
Ishikawa		1											1						1						3	Ishikawa
Tokushima							1			1						1									3	Tokushima
Saga	1						1									1									3	Saga
Nagasaki										1		1						1							3	Nagasaki
Oita		1						1	1																3	Oita
Kagoshima											1	1							1						3	Kagoshima
Nara							2																		2	Nara
Miyazaki								1		1															2	Miyazaki
Okinawa	1	1																							2	Okinawa
Kumamoto																			1						1	Kumamoto
Tottori																										Tottori
Shimane																										Shimane
total	68	81	82	68	71	54	62	62	69	61	49	52	56	42	48	44	52	36	55	49	48	32	40	51	1,332	total

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