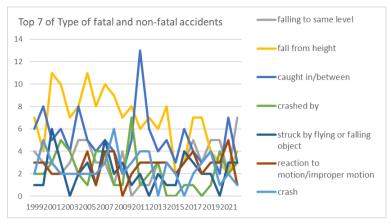
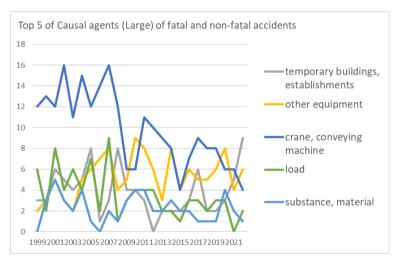
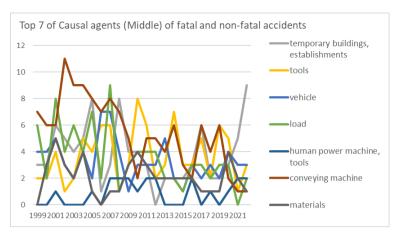
Transition of fatal and non-fatal accidents in 050209 other harbor transportation service in Japan (1999-2022)



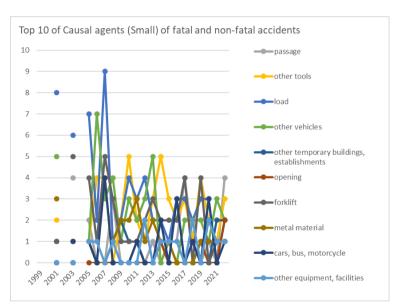
Transition of Top 7 of Type of fatal and non-fatal accidents in 050209 other harbor transportation service in Japan (1999-2022)



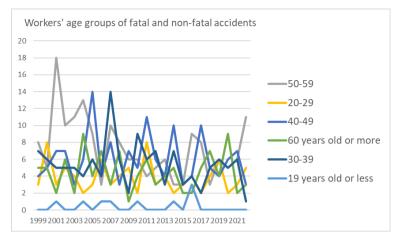
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 050209 other harbor transportation service in Japan (1999-2022)



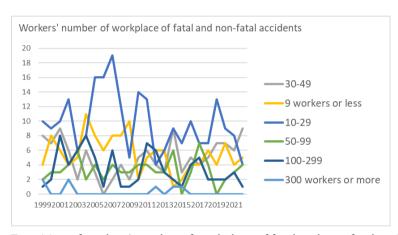
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 050209 other harbor transportation service in Japan (1999-2022)



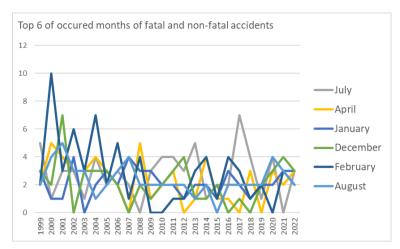
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 050209 other harbor transportation service in Japan (1999-2022)



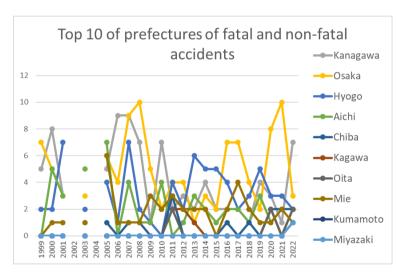
Transition of workers' age groups of fatal and non-fatal accidents in 050209 other harbor transportation service in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 050209 other harbor transportation service in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 050209 other harbor transportation service in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 050209 other harbor transportation service in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 050209 other harbor transportation service 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	4	3	3	2	3	5	5	3	3	1	4		1	1	3	3	2	3	5	3	5	5	2	7	76	falling to same level
fall from height	7	4	11	10	7	8	11	8	10	9	7	8	6	7	6	8	2	3	7	7	4	3	2	4	159	fall from height

caught in/between	6	8	5	6	4	8	5	4	5	4	2	5	13	6	4	5	3	6	4	3	4	2	7	3	122	caught in/between
crashed by	2	2	3	5	4	2	1	4	4	1	1	7	1	2	3			1	1		1	4	2	3	54	crashed by
struck by flying or falling object	1	1	6	3		2	3	1	5	2	3	1	2		2	1	1	4	3	2	2		3	3	51	struck by flying or falling object
reaction to motion/improper motion	3	3	2	2	2	2	4	1	4	4		2	3	3	3	3	2	3	4	2	3	3	5	1	64	reaction to motion/improper motion
crash	2	5	3	2	2	2	2	2	3	6	2	3	4	4		3	2		2	3	4	1	2	1	60	crash
cut	1		2				1	1			1		1	1		1					2			1	12	cut
traffic accident (public road)		1		1	2	2	1		4		1					3		2				4			21	traffic accident (public road)
collapse			1		1	3	1	1	1			1	2			1	1			1		3			17	collapse
contact to high/low- temperature		1		1									2					2	1	3					10	contact to high/low- temperature
drown	1	1		1		1	2										1	1							8	drown
injury to the sole of the foot																						1	1		2	injury to the sole
others										1												1			2	others
contact to harmful substance																		1							1	contact to harmful substance
traffic accident (others)																					1				1	traffic accident (others)

electric shock																										electric shock
explosion																										explosion
burst																										burst
fire																										fire
unclassifiable																										unclassifiable
total	27	29	36	33	25	35	36	25	39	28	21	27	35	24	21	28	14	26	27	24	26	27	24	23	660	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 050209 other harbor transportation service 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	3	3	6	5	4	5	8	1	3	8	4	4	3		2	2	2	3	6	2	2	3	5	9	93	temporary buildings, establishment
other equipment	2	3	5	3	2	5	6	7	8	4	5	9	8	6	3	8	4	6	5	5	6	8	4	6	128	other equipment
crane, conveying machine	12	13	12	16	11	15	12	14	16	12	6	6	11	10	9	8	4	7	9	8	8	6	6	4	235	crane, conveying machine
load	6	2	8	4	6	4	7	2	9	1	3	4	4	4	2	2	1	3	3	2	3	3		2	85	load
substance, material		3	5	3	2	4	1		2	1	3	4	4	2	2	3	2	2	1	1	1	4	2	1	53	substance, material
machine	1	2				1	1	1					2	1		3	1		1	1	3		2	1	21	machine
others	2	2		1		1			1	1			2	1	3	2		1	1	2	3	3	3		29	others
environment	1	1		1			1			1			1					4	1	3			2		16	environment
total	27	29	36	33	25	35	36	25	39	28	21	27	35	24	21	28	14	26	27	24	26	27	24	23	660	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 050209 other harbor transportation service 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)
temporary buildings, establishments	3	3	6	5	4	5	8	1	3	8	4	4	3		2	2	2	3	6	2	2	3	5	9	93	temporary buildings, establishments
tools	2	2	4	1	2	5	4	6	6	1	3	8	6	2	3	7	3	3	5	2	6	5	1	3	90	tools
vehicle	4	4	5	3	2	4	2	7	7	4	1	3	3	3	5	2	1	3	2	3	2	4	3	3	80	vehicle
load	6	2	8	4	6	4	7	2	9	1	3	4	4	4	2	2	1	3	3	2	3	3		2	85	load
human power machine,			1				1		2	2	2	1	2	2				2		1		1	2	2	21	human power machine, tools
conveying machine	7	6	6	11	9	9	8	7	8	7	5	2	5	5	4	6	3	2	6	4	6	2	1	1	130	conveying machine
materials		3	5	3	2	4	1		1	1	3	4	3	2	2	2	2	2	1	1	1	4	2	1	50	materials
other equipments,				1			1	1		1				2		1	1	1		2		2	1	1	15	other equipments, facilities
power transmission mechanism		2				1														1				1		power transmission mechanism
crane	1	3	1	2		2	2		1	1		1	3	2				2	1	1			2		25	crane
no causal agent		2		1		1				1			2	1	2	2		1	1	2	2	2	3		23	no causal agent
																										natural

natural environment	1	1	1		1			1		1					4	1	3			2	16	environment
construction machine					1					1	1		1			1		1		1	7	construction machine
woodworking machine	1									1			1					2			5	woodworking machine
other causal agent	2											1						1	1		5	other causal agent
general machine						1							1	1						1	4	general machine
hazards, harmful substances							1			1			1									hazards, harmful substances
welding equipment			1																		1	welding equipment
electric equipment		1																			1	electric equipment
unclassifiable							1														1	unclassifiable
engine																						engine
metal manufacturing machine																						metal manufacturing machine
mobile silviculture machine																						mobile silviculture machine
pressure vessel																						pressure vessel

chemical facilities																										chemical facilities
kiln, caldron																										kiln, caldron
total	27	29	36	33	25	35	36	25	39	28	21	27	35	24	21	28	14	26	27	24	26	27	24	23	660	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 050209 other harbor transportation service 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			1		4		2			3			1		1		1	1	4	1		1		4	24	passage
other tools			2				1	4	4		2	5	2	1	3	5	3	2	3	1	4	2	1	3	48	other tools
load			8		6		7	2	9	1	2	4	3	4	2	2	1	3	3	2	3	3		2	67	load
other vehicles			5		1		1	7	3	4	1	3	2	3	5		1		2	2	2	1	3	2	48	other vehicles
other temporary																										other temporary
buildings,			1				1			1	2	1	1			1							2	2	12	buildings,
establishments																										establishments
opening																1					1			2	4	opening
forklift			1		5		4	1	5	3	1	1	1	2	3	2	2	2	4		4		1	1	43	forklift
metal material			3		1		1			1	2	2	3	1	2	1	1				1	1	1	1	22	metal material
cars, bus,																									4.7	cars, bus,
motorcycle					ľ		I		4				I			2		3		ľ		3			17	motorcycle
other equipment,							_	1		_															1.4	other equipment,
facilities							ľ			1				2						2		2	I	I	14	facilities
hand tool			1				1		2	1			1	2				1		1			2	1	13	hand tool
working platform,																									11	working platform,
boot board										3	1		I						'				2	1	11	boot board

human power							1		1	1											1	4	human power
cranes																							cranes
power transmission mechanism																	1				1	2	power transmission mechanism
truck		3	4	4	3	3	3	4	1	3	3	1	3			2	3	1	1			42	truck
ladder		2	2	2		1	1	1	3	2	1		2		1	2	1	1	1			23	ladder
no causal agent							1			2	1	2	2		1	1	2	2	2	3		19	no causal agent
stairs, landing stage		4		1	1	2		1	1			1		1	1	1	1		1			16	stairs, landing stage
lumber, bamboo		1	1			1			1		1			1	2		1		2	1		12	lumber, bamboo
crane		1		2		1	1			1	2				1					1		10	crane
slinging tool				1	2	1				2								1	2			9	slinging tool
building,				,					2										1	1		7	building,
establishment				3					2										ľ				establishment
conveyor		1			3									1				1				6	conveyor
high/cold																							high/cold
temperature															2	1	3					6	temperature
environment																							environment
leveling,																							leveling,
transporting or				1						1			1			1				1		5	transporting or
loading machine																							loading machine
circular sawing										1			1					2				4	circular sawing
machine																						4	machine
other powered															1	1	1			1		4	other powered
crane																Ľ							crane
human power																							human power

hauling equipment								2							1				1		4	hauling equipment
other materials		1							1							1			1		4	other materials
other environments							1			1										2	4	other environments
other powered conveying machines		1								1							1				3	other powered conveying machines
other causal agent												1						1	1		3	other causal agent
excavating machine											1							1			2	excavating machine
other general power machines														1						1	2	other general power machines
straddle carrier							1						1								2	straddle carrier
scaffolding				1		1															2	scaffolding
other hazards, harmful substances						1							1								2	other hazards, harmful substances
stone, sand, substance								1					1								2	stone, sand, substance
machine/equipment as load								1		1											2	machine/equipmen
water				1											1						2	water
roll machine (except printingroll machine)													1								1	roll machine (except printingroll machine)
food manufacturing					1																1	food manufacturing
mobile crane										1											1	mobile crane

elevator, lift								1							1	elevator, lift
cargo lifting							1								1	cargo lifting appliance
rough terrain hauler													1		1	rough terrain hauler
timbering						1									1	timbering
inflammable gas								1							1	inflammable gas
abnormal environment											1				1	abnormal environment
unclassifiable					1										1	unclassifiable
engine																engine
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
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
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
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
gondola													gondola
lumberyard													lumberyard
equipment, logging													equipment, logging
cableway													cableway
simple skyline													simple skyline
yarding equipment													yarding equipment
railway equipment													railway equipment
loader													loader
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

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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
electric power														electric power
facilities														facilities
other electrical														other electrical
equipment														equipment
human power														human power
machine														machine
roof, beam, haze,														roof, beam, haze,
crossbeam,														crossbeam,
principal rafter														principal rafter
explosive substance														explosive substance
inflammable														inflammable
substance														substance
harmful substance														harmful substance
radiation														radiation
natural ground,														natural ground,
rock														rock

standing tree																										standing tree
total	27	29	36	33	25	35	36	25	39	28	21	27	35	24	21	28	14	26	27	24	26	27	24	23	660	total

Transition of workers' age groups of fatal and non-fatal accidents in 050209 other harbor transportation service 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	8	5	18	10	11	13	9	3	10	8	6	6	4	5	6	3	3	9	8	3	6	5	6	11	176	50-59
20-29	3	8	3	5	4	2	3	6	3	4	5	2	8	3	4	2	3	4	2	4	6	2	3	5	94	20-29
40-49	4	5	7	7	3	6	14	4	8	3	7	5	11	6	4	10	3	4	10	5	4	6	7	3	146	40-49
60 years old or	5	5	2	6	2	9	4	7	3	7	1	4	6	3	4	5	2	2	5	7	4	9	2	3	107	60 years old or
more																										more
30-39	7	6	5	5	5	4	6	4	14	6	2	9	6	7	3	7	3	4	2	5	6	5	6	1	128	30-39
19 years old or less			1			1		1	1			1				1		3							9	19 years old or less
total	27	29	36	33	25	35	36	25	39	28	21	27	35	24	21	28	14	26	27	24	26	27	24	23	660	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 050209 other harbor transportation service 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
30-49	8	7	9	6	2	6	3		2	4	2	5	6	4	3	9	3	5	4	5	7	7	6	9	122	30-49
9 workers or less	4	8	6	4	5	11	8	6	8	8	10	2	5	6	6	1	2	4	4	6	4	7	4	5	134	9 workers or less
10-29	10	9	10	13	6	8	16	16	19	12	5	14	13	4	6	9	7	10	7	7	13	9	8	4	235	10-29
50-99	2	3	3	4	6	2	4	2	4	3	3	4	4	3	3	6		3	7	4		2	3	4	79	50-99
100-299	1	2	8	4	6	8	5	1	6	1	1	2	7	6	3	2	1	4	5	2	2	2	3	1	83	100-299
300 workers or	2			2										1		1	1								7	300 workers or
more																										more
total	27	29	36	33	25	35	36	25	39	28	21	27	35	24	21	28	14	26	27	24	26	27	24	23	660	total

Transition of occured months of fatal and non-fatal accidents in 050209 other harbor transportation service 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
July	5	1	3	3	1	4	2	3	2		3	4	4	3	5	1	2	2	7	4	1	4		3	67	July
April	2	5	4	3	3	4	3	2		5	1	2	3		1	4	1	1		3		3	2	3	55	April
January	3	1	1	4		2	3	2	4	3	3	2	2	1	2	2	1	3	2	1	2	2	3	3	52	January
December	3	2	7		3	3	3	2		2	1	2	3	4	1	1	2		1		2	3	4	3	52	December
February	2	10	3	6	3	7	2	5	1	4			1	1	3	4	1	4	3	1	2		3	2	68	February
August	2	4	5	3	3	1	2	3	4	2	2	2	2	2	1	2		2	2	2	2	4	3	2	57	August
March	3	2	4	4	4	1	3	1	2	3	5		1	2	1	2		2	2	1	3		2	2	50	March
September		1		2	2	4	4		3	1			5	3		1	1	3	2	2	4	2	2	2	44	September
October	4	1	3	1	1	3	3		4	3	2	4	2	1	4	3	2	3	2	5	1	2	4	1	59	October
June	2	1	1	1	1	4	4	4	6	2	2	2	5	3	1	3		3	1	1	5	5		1	58	June
November			2	1	2	1	5	1	5		1	4	2	1	1	2		1	1	3	2		1	1	37	November
May	1	1	3	5	2	1	2	2	8	3	1	5	5	3	1	3	4	2	4	1	2	2			61	May
total	27	29	36	33	25	35	36	25	39	28	21	27	35	24	21	28	14	26	27	24	26	27	24	23	660	total

Transition of prefectures of fatal and non-fatal accidents in 050209 other harbor transportation service 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
Kanagawa	5	8	3		1		5	9	9	7	1	7	2	3	2	4	2	2	2	1	4	3	1	7	88	Kanagawa
Osaka	7	5	3		3		6	4	9	10	5	2	4	4	1	3	2	7	7	4	2	8	10	3	109	Osaka
Hyogo	2	2	7		2		4	1	7	2	1		4	2	6	5	5	4	2	3	5	3	3	2	72	Hyogo
Aichi		5	3		5		7		4	1	1	4		1	3	2	1	2	2	1	3	1	2	2	50	Aichi
Chiba							1		1	1			3					1		1		2	2	2	14	Chiba

Kagawa											2	2	1							2		2	9	Kagawa
Oita											2									2		2	6	Oita
Mie		1	1	1	6	1	1	1	3	2	3	2	2	2		2	4	2	1	1	2	1	39	Mie
Kumamoto																						1	1	Kumamoto
Miyazaki																						1	1	Miyazaki
Fukuoka	1	2		5	1	2	3		3	2	5	2		2	2	4	4	2	1		2		43	Fukuoka
Tokyo	6	1	5	2	3	1	1	3	1	3		1	2	1	1	1		1		2			35	Tokyo
Ehime		1	3	4		1	1	2	1	1	4	4		2						1			25	Ehime
Hokkaido	1	2				1			2	3	4	2		6					1				22	Hokkaido
Hiroshima	1					2	1		1				1			1	1	2	1	1			12	Hiroshima
Okayama			6	1	2			1		1													11	Okayama
Nagasaki			1							1	1		1		1	1	3	1					10	Nagasaki
Miyagi				1													1	3	4				9	Miyagi
Yamaguchi	3	1	1				1					1	1	1									9	Yamaguchi
Shizuoka			1			1			1		1								2				6	Shizuoka
Ibaraki					1	1												1	1				4	lbaraki
Kagoshima							1												1	1	1		4	Kagoshima
Kochi		1											1					1					3	Kochi
Fukushima																1					1		2	Fukushima
Wakayama			2																				2	Wakayama
Niigata																		1					1	Niigata
Fukui																	1						1	Fukui
Gifu									1														1	Gifu

Shiga	1																								1	Shiga
Tokushima												1													1	Tokushima
Okinawa								1																	1	Okinawa
Aomori																										Aomori
lwate																										lwate
Akita																										Akita
Yamagata																										Yamagata
Tochigi																										Tochigi
Gunma																										Gunma
Saitama																										Saitama
Toyama																										Toyama
Ishikawa																										Ishikawa
Yamanashi																										Yamanashi
Nagano																										Nagano
Kyoto																										Kyoto
Nara																										Nara
Tottori																										Tottori
Shimane																										Shimane
Saga																										Saga
total	27	29	36	33	25	35	36	25	39	28	21	27	35	24	21	28	14	26	27	24	26	27	24	23	660	total

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