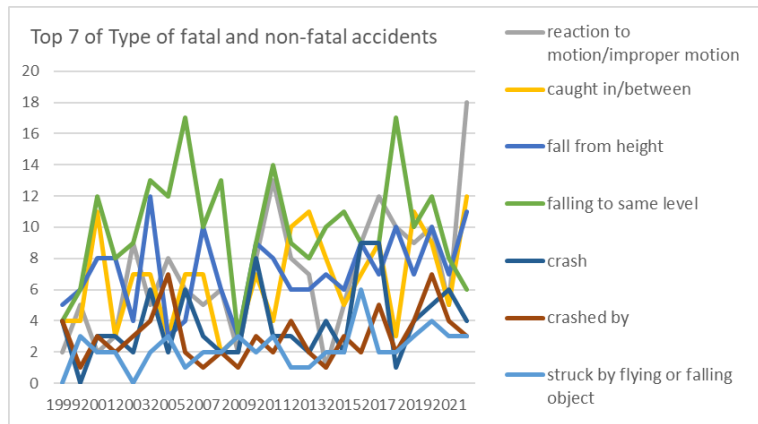
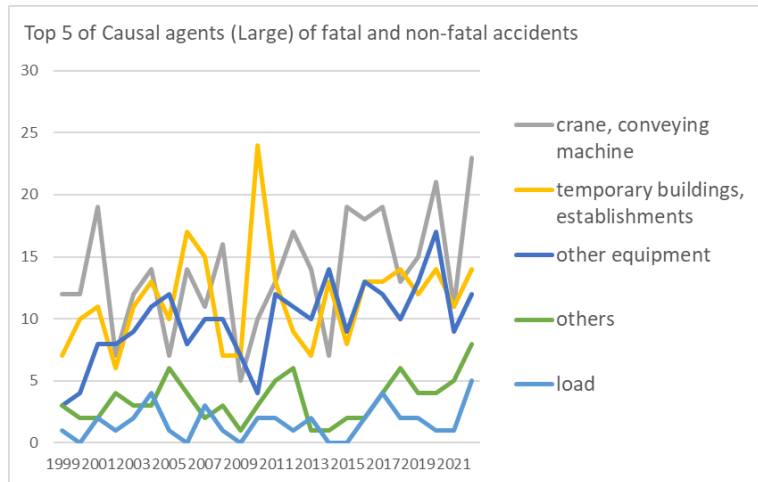


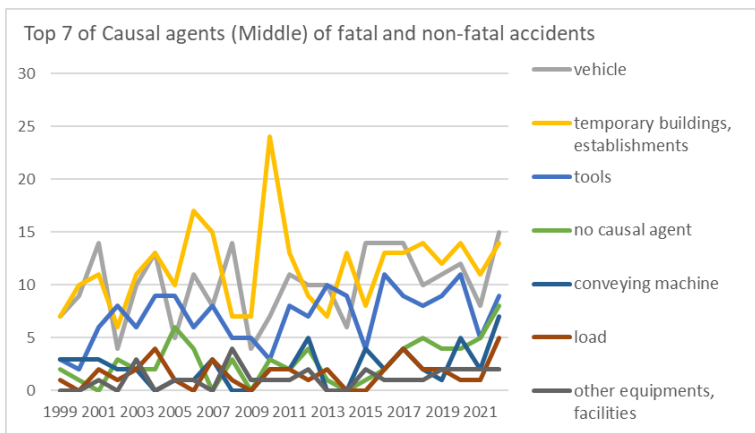
Transition of fatal and non-fatal accidents in 040102 water transportation service in Japan (1999-2022)



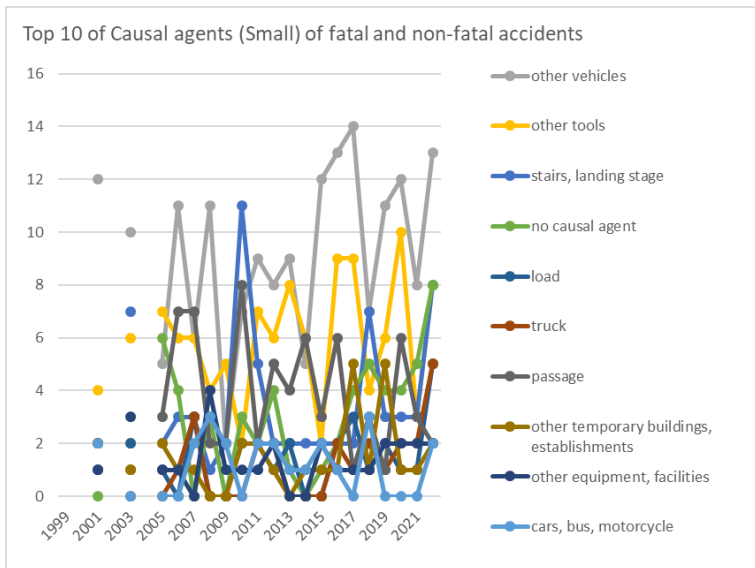
Transition of Top 7 of Type of fatal and non-fatal accidents in 040102 water transportation service in Japan (1999-2022)



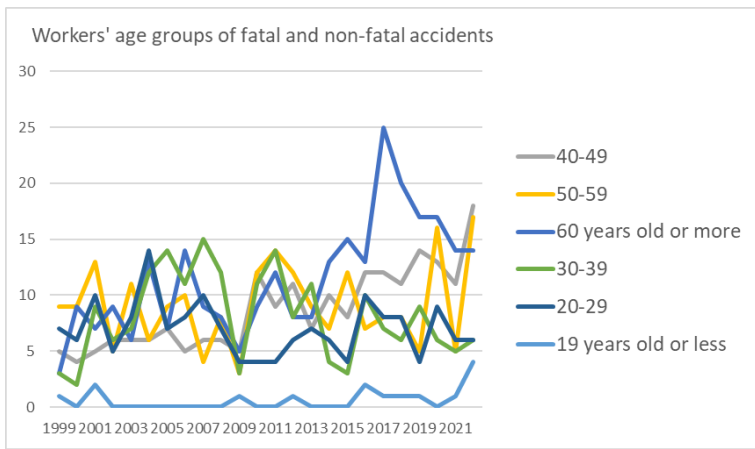
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 040102 water transportation service in Japan (1999-2022)



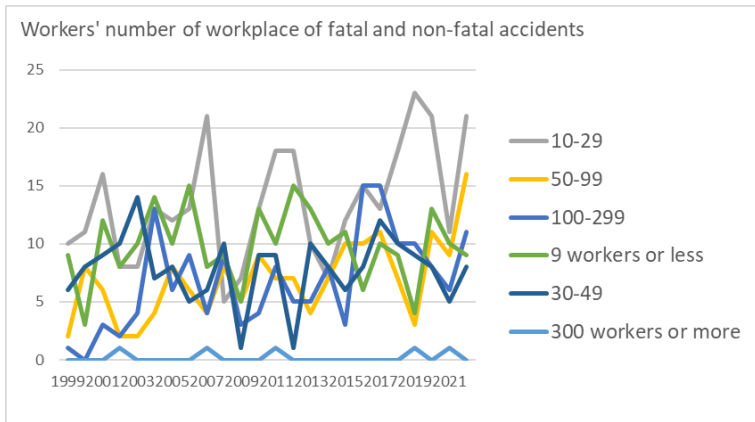
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 040102 water transportation service in Japan (1999-2022)



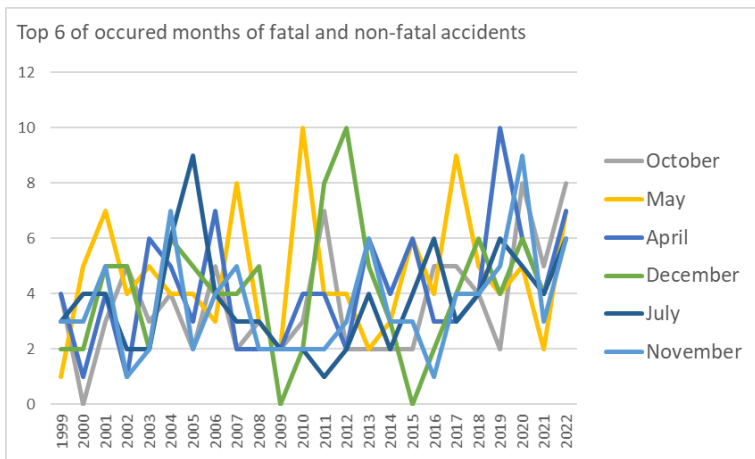
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 040102 water transportation service in Japan (1999-2022)



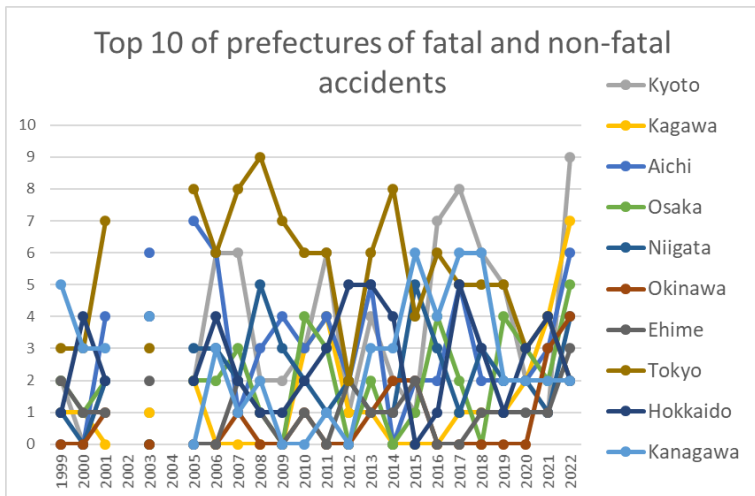
Transition of workers' age groups of fatal and non-fatal accidents in 040102 water transportation service in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 040102 water transportation service in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 040102 water transportation service in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 040102 water transportation service in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 040102 water 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
reaction to motion/improper motion	2	5	2	3	9	5	8	6	5	6	2	8	13	8	7	1	5	9	12	10	9	10	5	18	168	reaction to motion/improper motion

power transmission mechanism												1	1											1	3	transmission mechanism
natural environment		1	3	3		4	3	2	2			1	4		3	1		3	4	6	2	1	1		44	natural environment
materials	2			2		2	2	2	1	2		3	1		2	2	2	2	2	1	1	1	1		31	materials
other causal agent	1		2	1	1	1			1		1		3	2		1				1					15	other causal agent
general machine		1					1				1				1	1		1					1		7	general machine
hazards, harmful substances							2	1					1	1	1								1		7	hazards, harmful substances
woodworking machine					1								1	1	1				1						5	woodworking machine
construction machine															1	1							1		3	construction machine
welding equipment		1														1			1						3	welding equipment
unclassifiable		1							1								1								3	unclassifiable
pressure vessel																1									1	pressure vessel
mobile silviculture machine																										mobile silviculture machine
chemical facilities																										chemical facilities

kiln, caldron																											kiln, caldron	
electric equipment																												electric equipment
total	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	65	1,080	total		

Transition of Causal agents (Small) of fatal and non-fatal accidents in 040102 water 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
other vehicles			12		10		5	11	6	11	2	7	9	8	9	5	12	13	14	7	11	12	8	13	185	other vehicles
other tools			4		6		7	6	6	4	5	2	7	6	8	6	2	9	9	4	6	10	3	8	118	other tools
stairs, landing stage			2		7		2	3	3	1	2	11	5	2	2	2	2	2	2	7	3	3	3	8	72	stairs, landing stage
no causal agent					2		6	4		3		3	2	4	1		1	2	4	5	4	4	5	8	58	no causal agent
load			1		2		1		3			2	2	1	2			2	3	1	2	1	1	5	29	load
truck			2		1			1	3				2	2				2	1	2	1	2	2	5	26	truck
passage			2				3	7	7	2	2	8	2	5	4	6	3	6	1	3	1	6	3	2	73	passage
other temporary buildings, establishments			2		1		2	1	1			2	2	1		1	1	1	5	1	5	1	1	2	30	other temporary buildings, establishments
other equipment, facilities			1		3		1	1		4	1	1	1	2			2	1	1	1	2	2	2	2	28	other equipment, facilities
cars, bus, motorcycle			2						2	3	2		2	2	1	1	2	1		3				2	23	cars, bus, motorcycle
forklift			1		1							2		1			3		2			3		2	15	forklift
ladder			1				1		2			1	1	1	2	3	2	2		3	2	1	1	1	24	ladder
working platform,			1		1		3	2	1	3	1			1	1	1	1			2			1	1	20	working platform,

scaffolding					1							1			1		1	1						5	scaffolding		
lumber, bamboo								1				1			1			1					1		5	lumber, bamboo	
machine/equipment as load				1														1	1						4	machine/equipment as load	
high/cold temperature environment				1																1		1			4	high/cold temperature environment	
other general power machines																							1		3	other general power machines	
cargo lifting appliance														1		1							1		3	cargo lifting appliance	
conveyor														2									1		3	conveyor	
other hazards, harmful substances														1	1									1		3	other hazards, harmful substances
circular sawing machine																							1		2	circular sawing machine	
chain saw														1		1									2	chain saw	
other construction machines																1							1		2	other construction machines	
food manufacturing machine																		1					1		2	food manufacturing machine	
other powered conveying machines																							1		2	other powered conveying machines	
human power cranes																							1		2	human power cranes	

harmful substance							2																2	harmful substance	
unclassifiable								1							1									2	unclassifiable
wood planer machine													1											1	wood planer machine
excavating machine															1									1	excavating machine
lathe																								1	lathe
drill press, milling machine																							1	1	drill press, milling machine
other metal manufacturing machines																								1	other metal manufacturing machines
mixer, grinder															1									1	mixer, grinder
lumberyard equipment, logging cableway																							1	1	lumberyard equipment, logging cableway
other pressure vessels																								1	other pressure vessels
gas welding equipment																								1	gas welding equipment
arc welding equipment																								1	arc welding equipment
inflammable substance													1											1	inflammable substance
inflammable gas																								1	inflammable gas
standing tree																								1	standing tree

pressure vessel																								pressure vessel	
chemical facilities																									chemical facilities
other welding equipment																									other welding equipment
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 machine																									human power machine
timbering																									timbering
roof, beam, haze, crossbeam, principal rafter																									roof, beam, haze, crossbeam, principal rafter
explosive substance																									explosive substance
radiation																									radiation
stone, sand, substance																									stone, sand, substance
abnormal environment																									abnormal environment

total	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	65	1,080	total
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Transition of workers' age groups of fatal and non-fatal accidents in 040102 water 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
40-49	5	4	5	6	6	6	7	5	6	6	5	12	9	11	7	10	8	12	12	11	14	13	11	18	209	40-49
50-59	9	9	13	5	11	6	9	10	4	8	3	12	14	12	9	7	12	7	8	8	5	16	5	17	219	50-59
60 years old or more	3	9	7	9	6	13	7	14	9	8	5	9	12	8	8	13	15	13	25	20	17	17	14	14	275	60 years old or more
30-39	3	2	9	6	7	12	14	11	15	12	3	11	14	8	11	4	3	10	7	6	9	6	5	6	194	30-39
20-29	7	6	10	5	8	14	7	8	10	7	4	4	4	6	7	6	4	10	8	8	4	9	6	6	168	20-29
19 years old or less	1		2								1			1				2	1	1	1		1	4	15	19 years old or less
total	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	65	1,080	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 040102 water 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
10-29	10	11	16	8	8	13	12	13	21	5	7	13	18	18	10	7	12	15	13	18	23	21	11	21	324	10-29
50-99	2	8	6	2	2	4	8	6	4	8	5	9	7	7	4	7	10	10	11	7	3	11	9	16	166	50-99
100-299	1		3	2	4	13	6	9	4	9	3	4	8	5	5	8	3	15	15	10	10	8	6	11	162	100-299
9 workers or less	9	3	12	8	10	14	10	15	8	9	5	13	10	15	13	10	11	6	10	9	4	13	10	9	236	9 workers or less
30-49	6	8	9	10	14	7	8	5	6	10	1	9	9	1	10	8	6	8	12	10	9	8	5	8	187	30-49
300 workers or more				1					1				1								1		1		5	300 workers or more
total	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	65	1,080	total

Transition of occurred months of fatal and non-fatal accidents in 040102 water 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
October	4		3	5	3	4	2	5	2	3	2	3	7	2	2	2	2	5	5	4	2	8	5	8	88	October
May	1	5	7	4	5	4	4	3	8	3	2	10	4	4	2	3	6	4	9	5	4	5	2	7	111	May
April	4	1	4	1	6	5	3	7	2	2	2	4	4	2	6	4	6	3	3	4	10	6	4	7	100	April
December	2	2	5	5	2	6	5	4	4	5		2	8	10	5	3		2	4	6	4	6	4	6	100	December
July	3	4	4	2	2	6	9	4	3	3	2	2	1	2	4	2	4	6	3	4	6	5	4	6	91	July
November	3	3	5	1	2	7	2	4	5	2	2	2	2	3	6	3	3	1	4	4	5	9	3	6	87	November
August	2	5	4		3	6	5	6	4	8	2	6	2	6	3	2	2	6	7	5	6	1	6	5	102	August
March	2	1	3	2	4	3	4	4	2	2	2	3	7	2	2	1	4	7	6	6	7	3	1	5	83	March
June	1	2	2	2	1	2	3	1	3	1	1	5	2	2	3	1	3	12	7	5	3	2	2	5	71	June
January	3	4	4	1	5	2	4	5	1	4	3	4	4	4	2	7	6	4	5	6	1	7	2	4	92	January
February	1	1	3	6	1	4	3	2	6	7	1	4	8	6		4	3	2	4	3		6	6	3	84	February
September	2	2	2	2	4	2		3	4	1	2	3	4	3	7	8	3	2	4	2	2	3	3	3	71	September
total	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	65	1,080	total

Transition of prefectures of fatal and non-fatal accidents in 040102 water 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
Kyoto	2		2		1		2	6	6	2	2	3	6	1	4	2	1	7	8	6	5	2	1	9	78	Kyoto
Kagawa	1	1			1		2					3	4	1	1				1	1	1	2	4	7	30	Kagawa
Aichi			4		6		7	6	1	3	4	3	4	2	5		2	2	5	2	2	2	3	6	69	Aichi
Osaka	2	1	2				2	2	3	1		4	3		2		1	4	2		4	3	2	5	43	Osaka
Niigata	1		2				3	3	2	5	3	2	1	2	1	1	5	3	1	3	2	2	1	4	47	Niigata
Okinawa			1						1			1			1	2	2						3	4	15	Okinawa

Ehime	2	1	1		2				2	1		1		2	1	1	2			1	1	1	1	3	23	Ehime
Tokyo	3	3	7		3		8	6	8	9	7	6	6	2	6	8	4	6	5	5	5	3	4	2	116	Tokyo
Hokkaido	1	4	2		4		2	4	2	1	1	2	3	5	5	4		1	5	3	1	3	4	2	59	Hokkaido
Kanagawa	5	3	3		4			3	1	2			1		3	3	6	4	6	6	2	2	2	2	58	Kanagawa
Hiroshima	4		2		3				3	3	1	3	3	3	1	2	2	1	2	2	5	5	1	2	48	Hiroshima
Hyogo		3	3		1			2	5	1		5		3		4	2		4		3	6	1	2	45	Hyogo
Fukuoka	2	1	3		2		1	1		2		1	3	2		1	1	7	4	3		3	3	2	42	Fukuoka
Shizuoka	3	1	2		1			1	1				4	1	1		3	3	3	1	1	5		2	33	Shizuoka
Kumamoto		3	2				3	1		2		3	1	3	2							2	1	2	25	Kumamoto
Mie					2		1	1	2	3	1	1	1	1		1	1			2		2	1	2	22	Mie
Iwate			1				1													1		1		2	6	Iwate
Fukui									1															2	3	Fukui
Nagasaki	1				2		1	2	1	1		1	2	1	2	1	3		3	4	3	3	2	1	34	Nagasaki
Okayama		4			2		1	4	2	1		1			2	1	3	1	1		1	4	1	1	30	Okayama
Yamaguchi		1			1					1		1			1	1		2	1					1	10	Yamaguchi
Yamagata		1					1	1							2					3				1	9	Yamagata
Fukushima																				1			1	1	3	Fukushima
Chiba			2					1	1		1	4	1	2		1		3	1		2	1			20	Chiba
Wakayama			1					1					1	1		3		1	1		5	2			16	Wakayama
Kagoshima	1		1				1		1		1						1	3	1	1	1	1	1		14	Kagoshima
Shiga														3			1	2	3		1	2			12	Shiga
Gifu					1		1						1					2	2	2	2				11	Gifu
Oita							3	1		1			1	2		2				1					11	Oita

Miyagi					1		2		1			1	3					1							10	Miyagi	
Nagano					1					1			1					1		2			2			8	Nagano
Tokushima			1				2								1			1		1	1		1			8	Tokushima
Shimane													2	1					1			1	2			7	Shimane
Miyazaki												1	1	2		1				1	1					7	Miyazaki
Aomori		2	2						1												1					6	Aomori
Tottori			1											2									2			5	Tottori
Ibaraki			1									1		1									1			4	Ibaraki
Toyama		1							1								1									3	Toyama
Kochi														1		1				1						3	Kochi
Yamanashi														1			1									2	Yamanashi
Saga														1						1						2	Saga
Akita											1															1	Akita
Tochigi																											Tochigi
Gunma																											Gunma
Saitama																											Saitama
Ishikawa																											Ishikawa
Nara																											Nara
total	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	65	1,080	total	

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