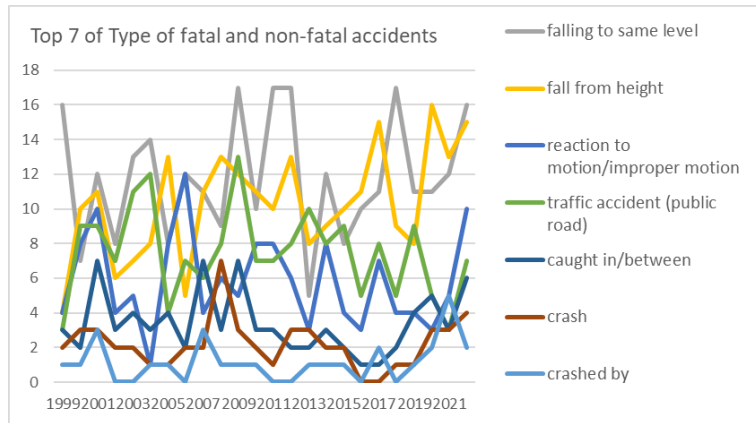
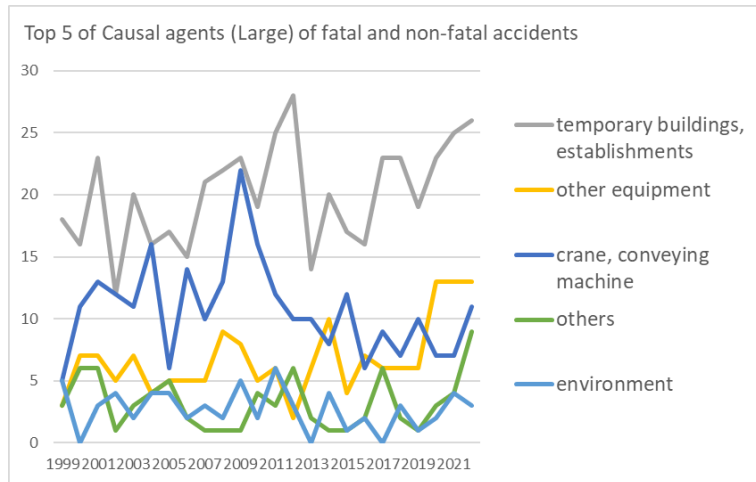


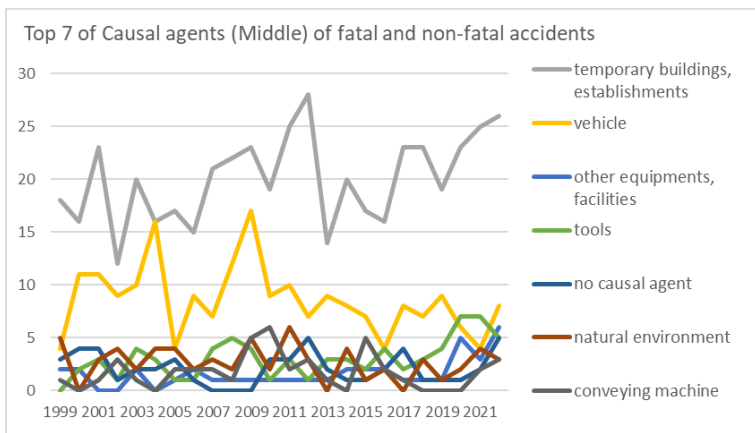
Transition of fatal and non-fatal accidents in 011603 city water service in Japan (1999-2022)



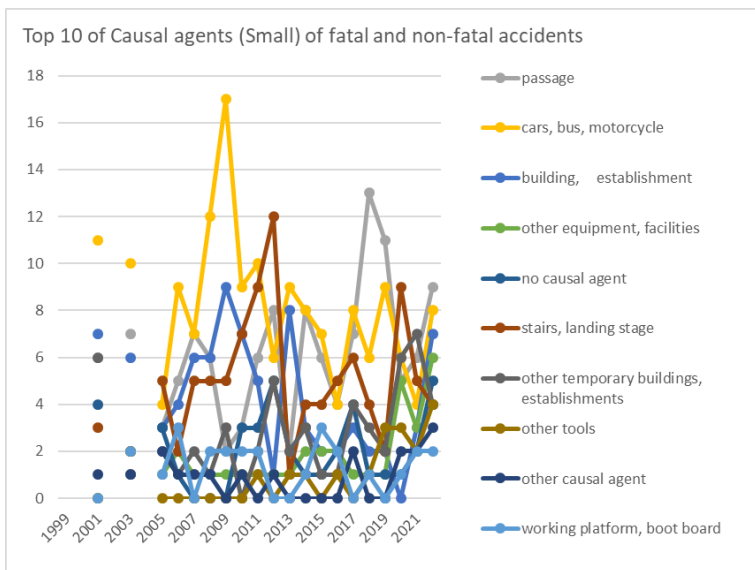
Transition of Top 7 of Type of fatal and non-fatal accidents in 011603 city water service in Japan (1999-2022)



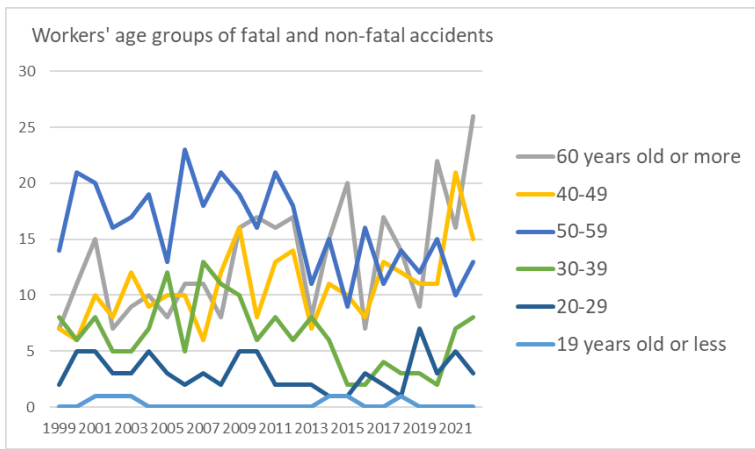
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 011603 city water service in Japan (1999-2022)



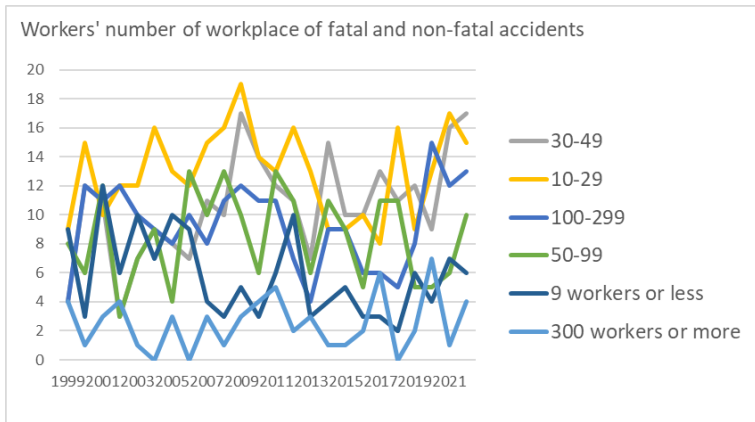
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 011603 city water service in Japan (1999-2022)



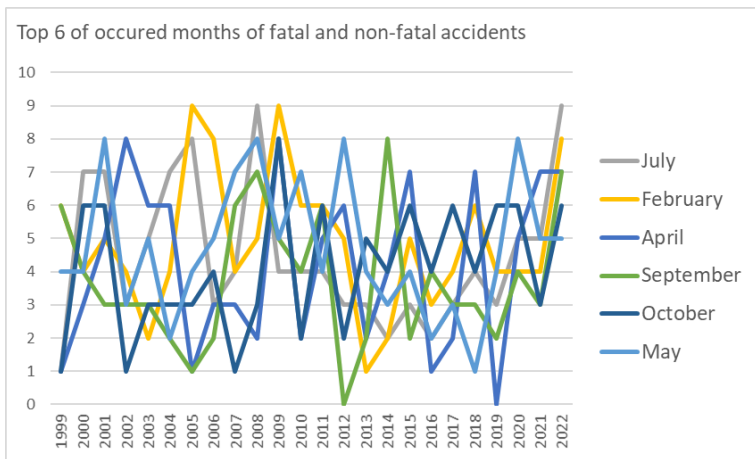
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 011603 city water service in Japan (1999-2022)



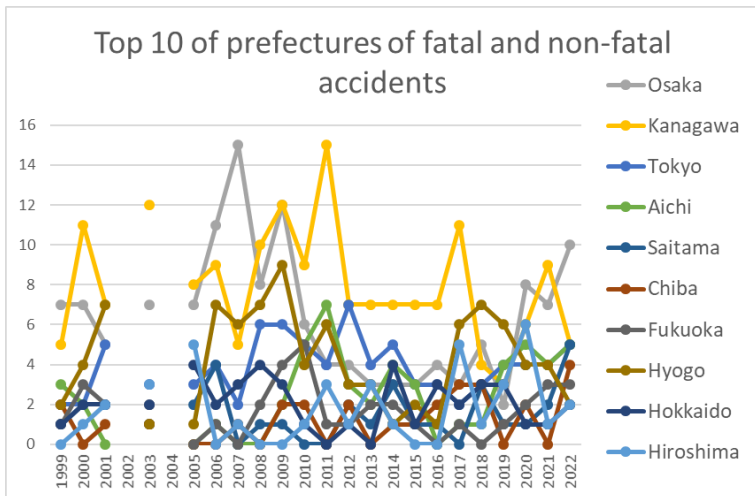
Transition of workers' age groups of fatal and non-fatal accidents in 011603 city water service in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 011603 city water service in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 011603 city water service in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 011603 city water service in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 011603 city water 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	16	7	12	8	13	14	8	12	11	9	17	10	17	17	5	12	8	10	11	17	11	11	12	16	284	falling to same level
fall from height	4	10	11	6	7	8	13	5	11	13	12	11	10	13	8	9	10	11	15	9	8	16	13	15	248	fall from height

reaction to motion/improper motion	4	8	10	4	5	1	8	12	4	6	5	8	8	6	3	8	4	3	7	4	4	3	5	10	140	reaction to motion/improper motion
traffic accident (public road)	3	9	9	7	11	12	4	7	6	8	13	7	7	8	10	8	9	5	8	5	9	5	3	7	180	traffic accident (public road)
caught in/between	3	2	7	3	4	3	4	2	7	3	7	3	3	2	2	3	2	1	1	2	4	5	3	6	82	caught in/between
crash	2	3	3	2	2	1	1	2	2	7	3	2	1	3	3	2	2			1	1	3	3	4	53	crash
crashed by	1	1	3			1	1		3	1	1	1			1	1	1		2		1	2	5	2	28	crashed by
struck by flying or falling object	1	3	2	3	2	1	4	2	2	1	1	4	3	3	2	3	3	1	1	3	3		4	1	53	struck by flying or falling object
cut	1	1		2		3	1	3			3		4	4	1	1	1	1		3		2	2	1	34	cut
contact to high/low-temperature									3	1	1	2						1		1			4	1	14	contact to high/low-temperature
collapse	1			1	1	1		2				1			1			1			1	1	1	1	13	collapse
unclassifiable				1							1		1											1	4	unclassifiable
others		1	2			1	2		1	2			2	1		1			1			2	2		18	others
contact to harmful substance	1	1		2	1	2		2	1	1						1	2	1				2			17	contact to harmful substance
drown						2		1			1		4						1	1			1		11	drown
electric shock	1	2		1						2		1										1			8	electric shock
injury to the sole of the foot		1			1							1	1												4	injury to the sole of the foot

traffic accident (others)											1						1										2	traffic accident (others)
burst																										1	1	burst
fire								1																			1	fire
explosion																												explosion
total	38	49	59	40	47	50	46	51	51	54	66	52	60	57	36	49	43	36	47	45	42	53	59	65	1,195	total		

Transition of Causal agents (Large) of fatal and non-fatal accidents in 011603 city water 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	18	16	23	12	20	16	17	15	21	22	23	19	25	28	14	20	17	16	23	23	19	23	25	26	481	temporary buildings, establishments
other equipment	3	7	7	5	7	4	5	5	5	9	8	5	6	2	6	10	4	7	6	6	6	13	13	13	162	other equipment
crane, conveying machine	5	11	13	12	11	16	6	14	10	13	22	16	12	10	10	8	12	6	9	7	10	7	7	11	258	crane, conveying machine
others	3	6	6	1	3	4	5	2	1	1	1	4	3	6	2	1	1	2	6	2	1	3	4	9	77	others
environment	5		3	4	2	4	4	2	3	2	5	2	6	3		4	1	2		3	1	2	4	3	65	environment
machine	1	3	2	5	1	4	3	4	4	2	2	1	6	5	2	2	3	1	1	2	3	4	3	2	66	machine
substance, material	2	3	3		3	2	5	8	5	4	2	4	2	2	2	2	4	2		1	2	1	2	1	62	substance, material
load	1	3	2	1			1	1	2	1	3	1		1		2	1		2	1			1		24	load
total	38	49	59	40	47	50	46	51	51	54	66	52	60	57	36	49	43	36	47	45	42	53	59	65	1,195	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 011603 city water 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) agents
temporary buildings, establishments	18	16	23	12	20	16	17	15	21	22	23	19	25	28	14	20	17	16	23	23	19	23	25	26	481	temporary buildings, establishments
vehicle	4	11	11	9	10	16	4	9	7	12	17	9	10	7	9	8	7	4	8	7	9	6	4	8	206	vehicle
other equipments, facilities	2	2			2		1	2	1	1	1	1	1	1	1	2	2	2	1	1	1	5	3	6	39	other equipments, facilities
tools		2	3	1	4	3	1	1	4	5	4	1	3	1	3	3	2	4	2	3	4	7	7	5	73	tools
no causal agent	3	4	4	1	2	2	3	1				3	3	5	2	1	1	2	4	1	1	1	2	5	51	no causal agent
natural environment	5		3	4	2	4	4	2	3	2	5	2	6	3		4	1	2		3	1	2	4	3	65	natural environment
conveying machine	1		1	3	1		2	2	2	1	5	6	2	3	1		5	2	1				2	3	43	conveying machine
other causal agent		2	1		1	1	2	1	1	1		1		1					2			2	2	3	21	other causal agent
human power machine, tools	1	1	2	3		1	3	2		1	3	2	2		2	4		1	3	2	1		3	2	39	human power machine, tools
materials	1	2	3		2		5	5	2	2	2	4	2	2	2	1	2	1		1	2		1	1	43	materials
general machine	1	3	1	4	1	1	2	2	2	1			2	1	1			1	1		3	3		1	31	general machine

construction machine			1					1	1				1								1	1	6	construction machine			
unclassifiable			1			1				1									1			1	5	unclassifiable			
load	1	3	2	1			1	1	2	1	3	1		1		2	1		2	1			1		24	load	
hazards, harmful substances	1	1			1	2			3	3	2					1	2	1				1	1		19	hazards, harmful substances	
power transmission mechanism							1			1				3		1	1	2					1		11	power transmission mechanism	
woodworking machine				1		2			1			1	1	1						1		1	1		11	woodworking machine	
electric equipment			2	2	1						2		1				1					1			10	electric equipment	
crane			1					3	1			1									1	1	1		9	crane	
metal manufacturing machine								1							2									1		6	metal manufacturing machine
engine												1													1	engine	
pressure vessel					1																				1	pressure vessel	
mobile silviculture machine																										mobile silviculture machine	
chemical facilities																										chemical facilities	

buffing machine													1			1									2	buffing machine				
crane			1									1														2	crane			
other powered conveying machines																1										2	other powered conveying machines			
other vehicles																										2	other vehicles			
transmission																	1										2	transmission		
other electrical equipment																											2	other electrical equipment		
engine																							1				1	engine		
demolition machine																											1	demolition machine		
power press																											1	power press		
mixer, grinder																											1	mixer, grinder		
roll machine (except printingroll machine)																												1	roll machine (except printingroll machine)	
loader																											1	loader		
boiler																											1	boiler		
human power machine																											1	human power machine		
slinging tool																												1	slinging tool	
machine/equipment as load																												1	machine/equipment as load	
abnormal environment																													1	abnormal environment

total	38	49	59	40	47	50	46	51	51	54	66	52	60	57	36	49	43	36	47	45	42	53	59	65	1,195	total
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Transition of workers' age groups of fatal and non-fatal accidents in 011603 city water 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
60 years old or more	7	11	15	7	9	10	8	11	11	8	16	17	16	17	8	15	20	7	17	14	9	22	16	26	317	60 years old or more
40-49	7	6	10	8	12	9	10	10	6	12	16	8	13	14	7	11	10	8	13	12	11	11	21	15	260	40-49
50-59	14	21	20	16	17	19	13	23	18	21	19	16	21	18	11	15	9	16	11	14	12	15	10	13	382	50-59
30-39	8	6	8	5	5	7	12	5	13	11	10	6	8	6	8	6	2	2	4	3	3	2	7	8	155	30-39
20-29	2	5	5	3	3	5	3	2	3	2	5	5	2	2	2	1	1	3	2	1	7	3	5	3	75	20-29
19 years old or less			1	1	1											1	1			1					6	19 years old or less
total	38	49	59	40	47	50	46	51	51	54	66	52	60	57	36	49	43	36	47	45	42	53	59	65	1,195	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 011603 city water 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	4	12	11	3	7	9	8	7	11	10	17	14	12	11	7	15	10	10	13	11	12	9	16	17	256	30-49
10-29	9	15	10	12	12	16	13	12	15	16	19	14	13	16	13	9	9	10	8	16	9	13	17	15	311	10-29
100-299	4	12	11	12	10	9	8	10	8	11	12	11	11	7	4	9	9	6	6	5	8	15	12	13	223	100-299
50-99	8	6	12	3	7	9	4	13	10	13	10	6	13	11	6	11	9	5	11	11	5	5	6	10	204	50-99
9 workers or less	9	3	12	6	10	7	10	9	4	3	5	3	6	10	3	4	5	3	3	2	6	4	7	6	140	9 workers or less
300 workers or more	4	1	3	4	1		3		3	1	3	4	5	2	3	1	1	2	6		2	7	1	4	61	300 workers or more
total	38	49	59	40	47	50	46	51	51	54	66	52	60	57	36	49	43	36	47	45	42	53	59	65	1,195	total

Transition of occurred months of fatal and non-fatal accidents in 011603 city water 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	1	7	7	3	5	7	8	3	4	9	4	4	4	3	3	2	3	2	3	4	3	5	5	9	108	July
February	6	4	5	4	2	4	9	8	4	5	9	6	6	5	1	2	5	3	4	6	4	4	4	8	118	February
April	1	3	5	8	6	6	1	3	3	2	8	2	5	6	2	4	7	1	2	7		5	7	7	101	April
September	6	4	3	3	3	2	1	2	6	7	5	4	6		2	8	2	4	3	3	2	4	3	7	90	September
October	1	6	6	1	3	3	3	4	1	3	8	2	6	2	5	4	6	4	6	4	6	6	3	6	99	October
May	4	4	8	3	5	2	4	5	7	8	5	7	4	8	4	3	4	2	3	1	4	8	5	5	113	May
November	4	7	4	7	3	3	1	3	3	1	5	5	3	9	1	6	3	5	3	3	6	1	4	5	95	November
December	1	2	2	2	1	2	3	4	5	2	5	1	4	6	3	4	2	3	6	4	4	3	6	5	80	December
August	3	1	3	2	4	7	6	6	6	3	7	8	5	4	3	3	3	7	4	5	2	2	7	4	105	August
June	4	6	2	5	5	5	3	2	3	7	1	6	5	3	3	4	2	1	8	4	7	7	4	4	101	June
March	2	3	10	2	4	5	4	3	5	6	5	4	9	5	2	4	3	1	2	2	1	2	5	3	92	March
January	5	2	4		6	4	3	8	4	1	4	3	3	6	7	5	3	3	3	2	3	6	6	2	93	January
total	38	49	59	40	47	50	46	51	51	54	66	52	60	57	36	49	43	36	47	45	42	53	59	65	1,195	total

Transition of prefectures of fatal and non-fatal accidents in 011603 city water 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
Osaka	7	7	5		7		7	11	15	8	12	6	4	4	3	3	3	4	3	5	2	8	7	10	141	Osaka
Kanagawa	5	11	7		12		8	9	5	10	12	9	15	7	7	7	7	7	11	4	3	6	9	5	176	Kanagawa
Tokyo	2	2	5		3		3	4	2	6	6	5	4	7	4	5	3	3	2	3	4	4	4	5	86	Tokyo
Aichi	3	2			1			1			2	5	7	3	2	4	3		1	1	4	5	4	5	53	Aichi
Saitama	1	2	2		1		2	4		1	1			2	1	3	1	1		3	1	1	2	5	34	Saitama
Chiba	2		1		1				1		2	2		2		1	1	2	3	3		2		4	27	Chiba

Tottori																								1	1	Tottori
Kyoto		2	5						1	1	3		1	6	1	6	2	3		2		2			35	Kyoto
Miyagi	1	2	2				1	1	2	3	1		6	4		1			1			2			27	Miyagi
Kumamoto		1	2				2		3			1	2		1	1		1	2			2	1		19	Kumamoto
Fukushima							1	2	1		3					1	1			1			1		11	Fukushima
Ibaraki	1				1				1		1			3			1			1		1	1		11	Ibaraki
Yamagata	1	1	1				2					1								1			1		8	Yamagata
Shizuoka	1	1								3	1											1			7	Shizuoka
Nagano					1												2			1	1		1		6	Nagano
Tochigi	1	1											2										1		5	Tochigi
Gifu			1		1																2	1			5	Gifu
Kochi	1						1			1				1	1										5	Kochi
Miyazaki	2		1														1		1						5	Miyazaki
Ishikawa			1											2								1			4	Ishikawa
Saga														1	1				1				1		4	Saga
Yamanashi					1						1												1		3	Yamanashi
Tokushima							2																1		3	Tokushima
Fukui		1																							1	Fukui
total	38	49	59	40	47	50	46	51	51	54	66	52	60	57	36	49	43	36	47	45	42	53	59	65	1,195	total

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