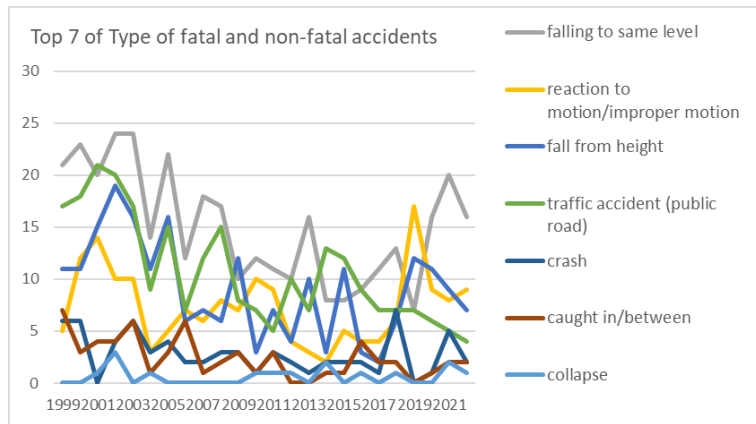
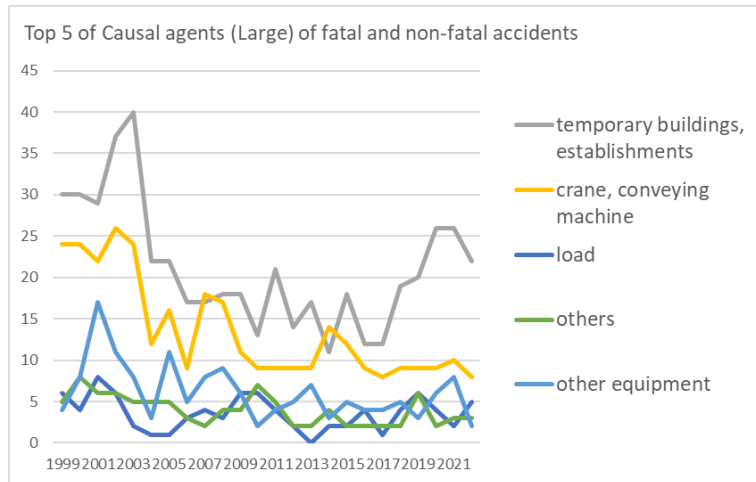


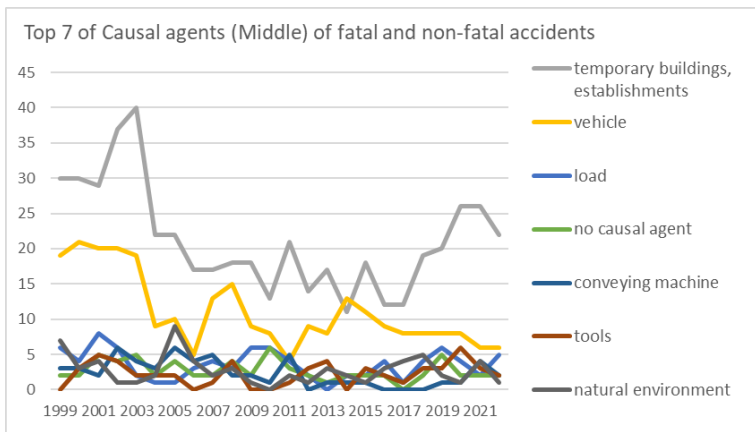
Transition of fatal and non-fatal accidents in 011602 city gas service in Japan (1999-2022)



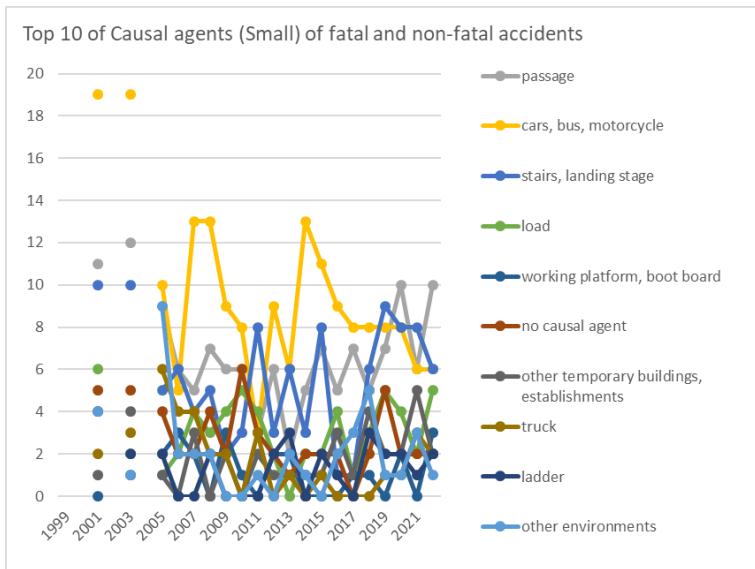
Transition of Top 7 of Type of fatal and non-fatal accidents in 011602 city gas service in Japan (1999-2022)



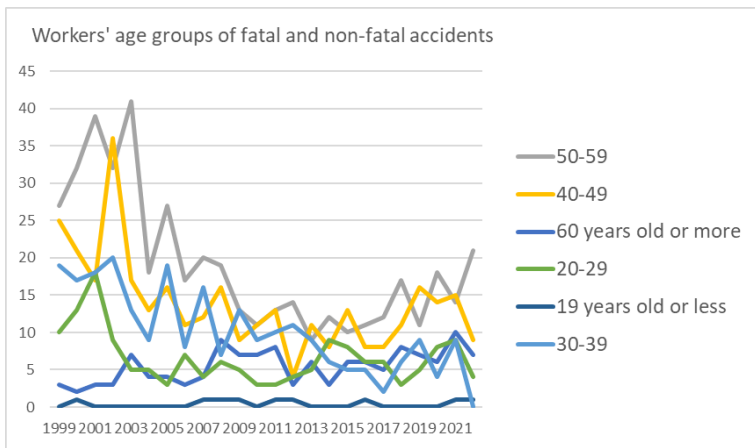
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 011602 city gas service in Japan (1999-2022)



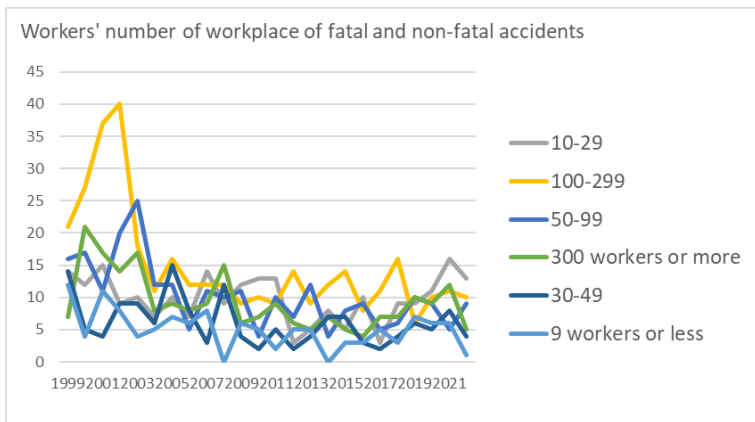
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 011602 city gas service in Japan (1999-2022)



Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 011602 city gas service in Japan (1999-2022)



Transition of workers' age groups of fatal and non-fatal accidents in 011602 city gas service in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 011602 city gas service in Japan (1999-2022)

the foot	1				1																			1		3	of the foot
unclassifiable			1	1								1														3	unclassifiable
drown													1													1	drown
electric shock							1																			1	electric shock
burst																											burst
total	84	86	95	100	83	49	69	46	57	58	48	41	48	37	40	38	42	37	33	45	48	50	58	42	1,334	total	

Transition of Causal agents (Large) of fatal and non-fatal accidents in 011602 city gas 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	30	30	29	37	40	22	22	17	17	18	18	13	21	14	17	11	18	12	12	19	20	26	26	22	511	temporary buildings, establishments	
crane, conveying machine	24	24	22	26	24	12	16	9	18	17	11	9	9	9	9	14	12	9	8	9	9	9	10	8	327	crane, conveying machine	
load	6	4	8	6	2	1	1	3	4	3	6	6	4	2		2	2	4	1	4	6	4	2	5	86	load	
others	5	8	6	6	5	5	5	3	2	4	4	7	5	2	2	4	2	2	2	2	6	2	3	3	95	others	
other equipment	4	8	17	11	8	3	11	5	8	9	6	2	4	5	7	3	5	4	4	5	3	6	8	2	148	other equipment	
substance, material	8	6	8	11	1	3	4	3	4		1	1	2	1	2	1	1	1	2		2	2	3	1	68	substance, material	
environment	7	3	4	1	1	2	9	4	2	3	1		2	1	3	2	1	3	4	5	2	1	4	1	66	environment	
machine		3	1	2	2	1	1	2	2	4	1	3	1	3		1	1	2		1				2		33	machine

total	84	86	95	100	83	49	69	46	57	58	48	41	48	37	40	38	42	37	33	45	48	50	58	42	1,334	total
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Transition of Causal agents (Middle) of fatal and non-fatal accidents in 011602 city gas 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	30	30	29	37	40	22	22	17	17	18	18	13	21	14	17	11	18	12	12	19	20	26	26	22	511	temporary buildings, establishments
vehicle	19	21	20	20	19	9	10	5	13	15	9	8	4	9	8	13	11	9	8	8	8	8	6	6	266	vehicle
load	6	4	8	6	2	1	1	3	4	3	6	6	4	2		2	2	4	1	4	6	4	2	5	86	load
no causal agent	2	2	5	4	5	2	4	2	2	4	2	6	3	2	1	2	2	2		2	5	2	2	2	65	no causal agent
conveying machine	3	3	2	6	4	3	6	4	5	2	2	1	5		1	1	1				1	1	4	2	57	conveying machine
tools		3	5	4	2	2	2		1	4			1	3	4		3	2	1	3	3	6	3	2	54	tools
natural environment	7	3	4	1	1	2	9	4	2	3	1		2	1	3	2	1	3	4	5	2	1	4	1	66	natural environment
other causal agent	2	6		2		2	1	1			2	1	2		1	2			2		1		1	1	27	other causal agent
materials	3	1	2	2	1	1	2	1	2				1		2		1				1		1	1	22	materials
hazards, harmful substances	5	5	6	9		2	2	2	2		1	1	1	1		1		1	2		1	2	2		46	hazards, harmful substances
other equipments, facilities	1	3	6	4	2		2	2	4	3	2		2		2	2	2		3				2		42	other equipments, facilities

																									facilities	
human power machine, tools	3	2	4	1	3		4		1		2	1	1	1	1			1		2					27	human power machine, tools
pressure vessel				2	1	1	2	2	2		1	1		1		1		1						3	18	pressure vessel
general machine		2		1	1		1	1		1		1		2		1	1	2		1					15	general machine
construction machine			1		1	1		1		1	1	1												2	9	construction machine
metal manufacturing machine		1		1						1		1													4	metal manufacturing machine
crane	2				1															1					4	crane
kiln, caldron			1							2	1														4	kiln, caldron
woodworking machine									2					1											3	woodworking machine
electric equipment			1			1	1																		3	electric equipment
unclassifiable	1		1		1																				3	unclassifiable
engine												1													1	engine
power transmission mechanism										1															1	power transmission mechanism
mobile silviculture machine																										mobile silviculture machine

manufacturing machines									1																1	manufacturing machines
roll machine (except printingroll machine)																									1	roll machine (except printingroll machine)
loader									1																1	loader
other powered conveying machines																1									1	other powered conveying machines
pressure vessel									1																1	pressure vessel
electric power facilities									1																1	electric power facilities
slinging tool									1																1	slinging tool
timbering							1																		1	timbering
explosive substance																									1	explosive substance
water																	1								1	water
abnormal environment																									1	abnormal environment
unclassifiable																									1	unclassifiable
band sawing machine																										band sawing machine
wood planer machine																										wood planer machine
hollow chisel mortiser, wood borer																										hollow chisel mortiser, wood borer

total	84	86	95	100	83	49	69	46	57	58	48	41	48	37	40	38	42	37	33	45	48	50	58	42	1,334	total
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Transition of workers' age groups of fatal and non-fatal accidents in 011602 city gas 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	27	32	39	32	41	18	27	17	20	19	13	11	13	14	9	12	10	11	12	17	11	18	14	21	458	50-59
40-49	25	21	17	36	17	13	16	11	12	16	9	11	13	4	11	8	13	8	8	11	16	14	15	9	334	40-49
60 years old or more	3	2	3	3	7	4	4	3	4	9	7	7	8	3	6	3	6	6	5	8	7	6	10	7	131	60 years old or more
20-29	10	13	18	9	5	5	3	7	4	6	5	3	3	4	5	9	8	6	6	3	5	8	9	4	158	20-29
19 years old or less		1							1	1	1		1	1				1					1	1	9	19 years old or less
30-39	19	17	18	20	13	9	19	8	16	7	13	9	10	11	9	6	5	5	2	6	9	4	9		244	30-39
total	84	86	95	100	83	49	69	46	57	58	48	41	48	37	40	38	42	37	33	45	48	50	58	42	1,334	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 011602 city gas 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	14	12	15	9	10	7	10	7	14	9	12	13	13	3	5	8	5	10	3	9	9	11	16	13	237	10-29
100-299	21	27	37	40	18	11	16	12	12	12	9	10	9	14	9	12	14	8	11	16	6	10	11	10	355	100-299
50-99	16	17	11	20	25	12	12	5	11	10	11	4	10	7	12	4	8	9	5	6	10	9	5	9	248	50-99
300 workers or more	7	21	17	14	17	8	9	8	9	15	6	7	9	6	5	7	5	4	7	7	10	9	12	5	224	300 workers or more
30-49	14	5	4	9	9	6	15	8	3	12	4	2	5	2	4	7	7	3	2	4	6	5	8	4	148	30-49
9 workers or less	12	4	11	8	4	5	7	6	8		6	5	2	5	5		3	3	5	3	7	6	6	1	122	9 workers or less
total	84	86	95	100	83	49	69	46	57	58	48	41	48	37	40	38	42	37	33	45	48	50	58	42	1,334	total

Transition of occurred months of fatal and non-fatal accidents in 011602 city gas 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
February	15	7	5	5	3	5	5	5	5	6	3	1	3	6	6	4	1	3	3	12	3	6	4	6	122	February
October	4	10	6	13	10	2	6	1	6	6	2	4	3	3	3	2	4	7	4		2	3	4	6	111	October
January	4	6	9	7	7	2	8	5	5	6	5	3	5	5	5	2	8	3	4	3	3	3	10	5	123	January
April	2	10	8	9	11	4	4		6	7	6	6	6	5	1	2	2		2	3	3	2	6	5	110	April
July	5	5	10	15	5	9	8	2	5	4	6	6	4	2	1	5	6	3	1	3	8	5	7	4	129	July
June	8	9	10	5	9	3	5	3	2	5	4	3	4	2	4	4	2	3	4	4	3	6	3	4	109	June
March	7	6	14	7	9	3	6	5	6	2	4	3	5	6	2	7	4	4	2	3	9	3	4	3	124	March
December	8	13	4	5	4	5	10	8	4	7	3	3	4	1	6	4	3	4	3	4	1	5	7	3	119	December
September	13	6	7	8	8	5	4	4	2	3	4	4	7	3	3	1	2		1	5	5	8	2	2	107	September
August	10	3	9	6	3	4	5	2	5	3	3			1	2	2	9	3	3	2	5	3	1	2	86	August
May	6	4	7	9	10	2	6	8	6	8	3	3	3	1	4	3	1	4	2		2	4	5	1	102	May
November	2	7	6	11	4	5	2	3	5	1	5	5	4	2	3	2		3	4	6	4	2	5	1	92	November
total	84	86	95	100	83	49	69	46	57	58	48	41	48	37	40	38	42	37	33	45	48	50	58	42	1,334	total

Transition of prefectures of fatal and non-fatal accidents in 011602 city gas 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	7	8	12		2		1	1	1	3	1		2		5	1	1	1	5	7	2	1	1	6	68	Kanagawa
Tokyo	13	21	23		14		10	1	3	3	3	11	7	6	6	7	4	1	1		3	5	1	4	147	Tokyo
Chiba	7	12	5		7		8	2	9	1	6	2	3	3	1	7	8	4	4	3	4	6	5	3	110	Chiba
Miyagi	1	1	1		2		5	1	3	5	1		4			3	1	1	2	5	5	4	4	3	52	Miyagi
Nagasaki	1	1	3				1	3	1	2	1		1			1					1		2	3	21	Nagasaki
Aichi	5	3	3		7		7	5	3	6	1	5	1	1	4	2	3	1	3	4	1	2	1	2	70	Aichi

Saitama	2	4	5		1		4	3	4	2	2	8	3	2	2	1	2	2	2	2	1	4	3	2	61	Saitama
Hokkaido	3	3	3		6		7	2	2	1		1			1		2	1	1	3	3	1	2	2	42	Hokkaido
Nagano	1		2				1	2	1	1				1			1		1	1	1	2	2	15	Nagano	
Kumamoto	4									1						1		1			4	2	2	13	Kumamoto	
Fukuoka	2	3	3		8		4	4	5	6	5	3	4	2	3	1	2	5	3	5	5	3	7	1	84	Fukuoka
Shizuoka	4	1	7		3		4	1	5	4	3		2	1		1	4	3		4	1	1		1	50	Shizuoka
Kagoshima	1		4		1		1	1	1	1	1	1	2	1	3	2	4	1			1		1	1	28	Kagoshima
Gunma	1		2		1			2	1		1	1		3		1	1	1	1			1	1	1	19	Gunma
Oita							1					3	3	4			1				2	1		1	16	Oita
Tochigi			2										1	1	2	1			2			1	4	1	15	Tochigi
Saga			2		1		1		2						2	1					1	1		1	12	Saga
Kyoto	2	1	1		2												1	1			1	1		1	11	Kyoto
Yamagata	5									1	1		1	1										1	10	Yamagata
Kochi	1				1		1									1	1				2		1	1	9	Kochi
Iwate					1			1		1				1						1	1			1	7	Iwate
Tottori		1			1			1											1					1	5	Tottori
Akita											1		1											1	3	Akita
Osaka	3	12	4		7		1	2	4	4	4	2	5	3	1		2	1	2	4	3		3		67	Osaka
Hiroshima	1	3	2		1		2	4	3	3	1	1			3	2	1	1		2	1	2	3		36	Hiroshima
Hyogo	5	1	2		5		2	3	3	1				1	1		1	2			2	4	1		34	Hyogo
Gifu	2	5	2		2					2	2							1		1	2	1	2		22	Gifu
Ibaraki	1		1		1			1	2	2			3		2	1		1			1	1			17	Ibaraki
Mie	1	2	1					2		1	3			1		1			2	1		2			17	Mie

Fukushima			1		2			1		2		1	2	4									1			16	Fukushima
Nara	1	1							1	1	2			1	1	1	2		2				1			14	Nara
Niigata	1										2	1			1	1	2	1	1			1	1			12	Niigata
Okayama			1		2						3					1	1			1		1	2			12	Okayama
Aomori	2	1			1		1						1		2			1		1		1				11	Aomori
Shiga					1		3	1					1					1				1	1			9	Shiga
Yamaguchi					1		4				1	1	1					1								9	Yamaguchi
Ishikawa	1										1									1	2		3			8	Ishikawa
Toyama			1		1			1			1													2		6	Toyama
Ehime	2				1					1				1				1								6	Ehime
Fukui	2							1			1															4	Fukui
Miyazaki	1		1					1															1			4	Miyazaki
Yamanashi			1																	1	1					3	Yamanashi
Tokushima										1											1	1				3	Tokushima
Kagawa		1								1	1															3	Kagawa
Okinawa	1								2																	3	Okinawa
Wakayama		1																								1	Wakayama
Shimane																											Shimane
total	84	86	95	100	83	49	69	46	57	58	48	41	48	37	40	38	42	37	33	45	48	50	58	42	1,334	total	

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