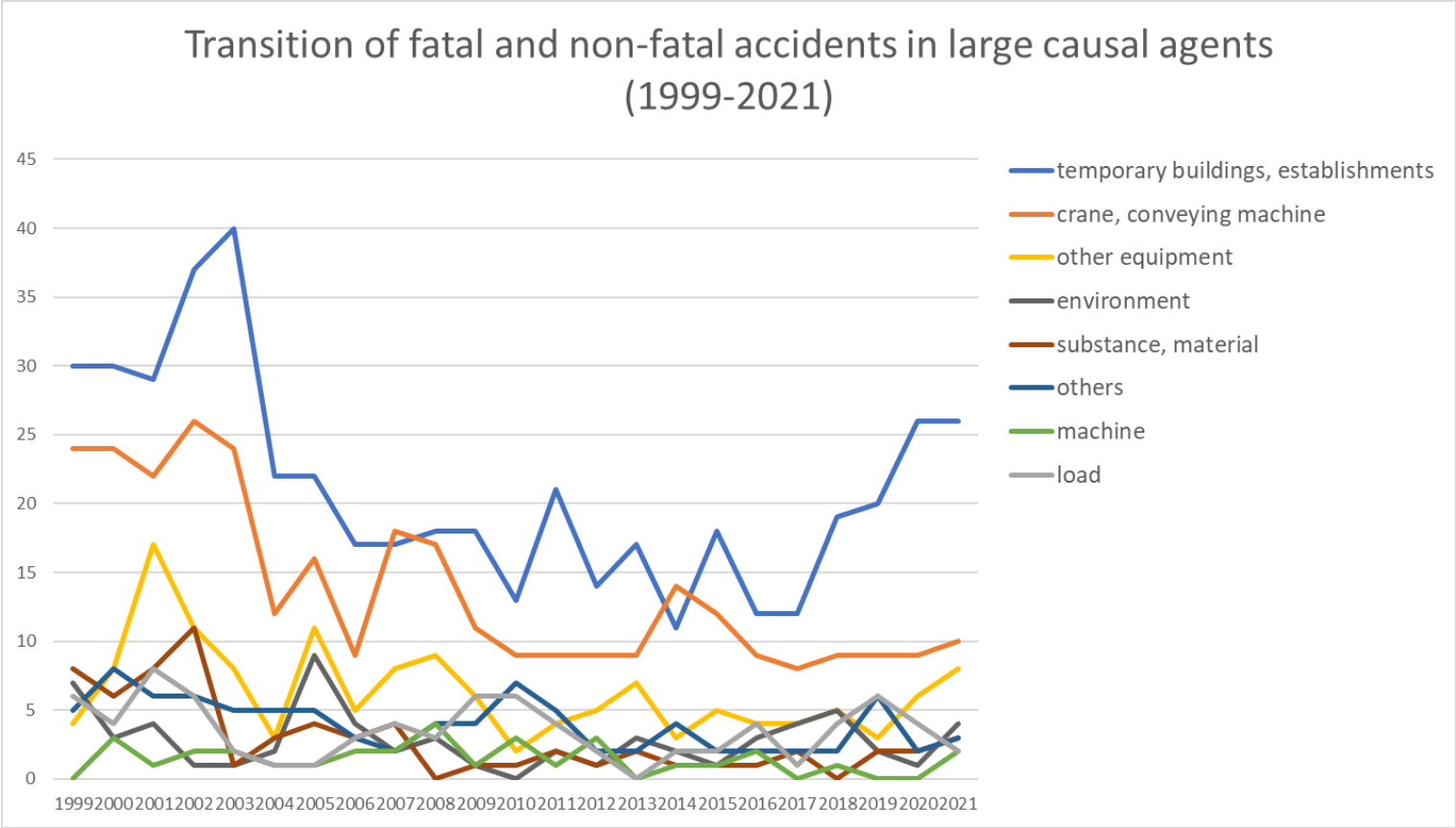
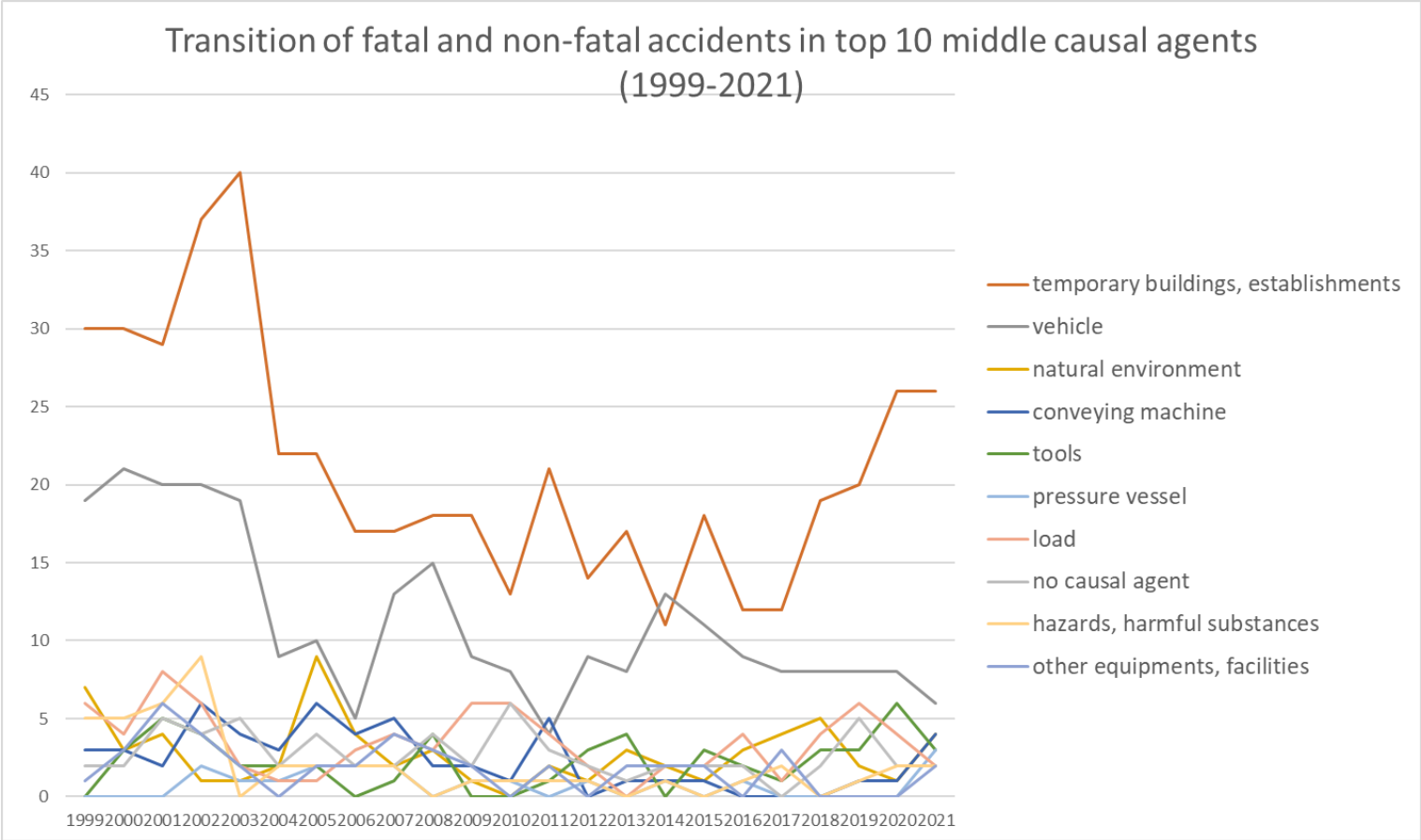
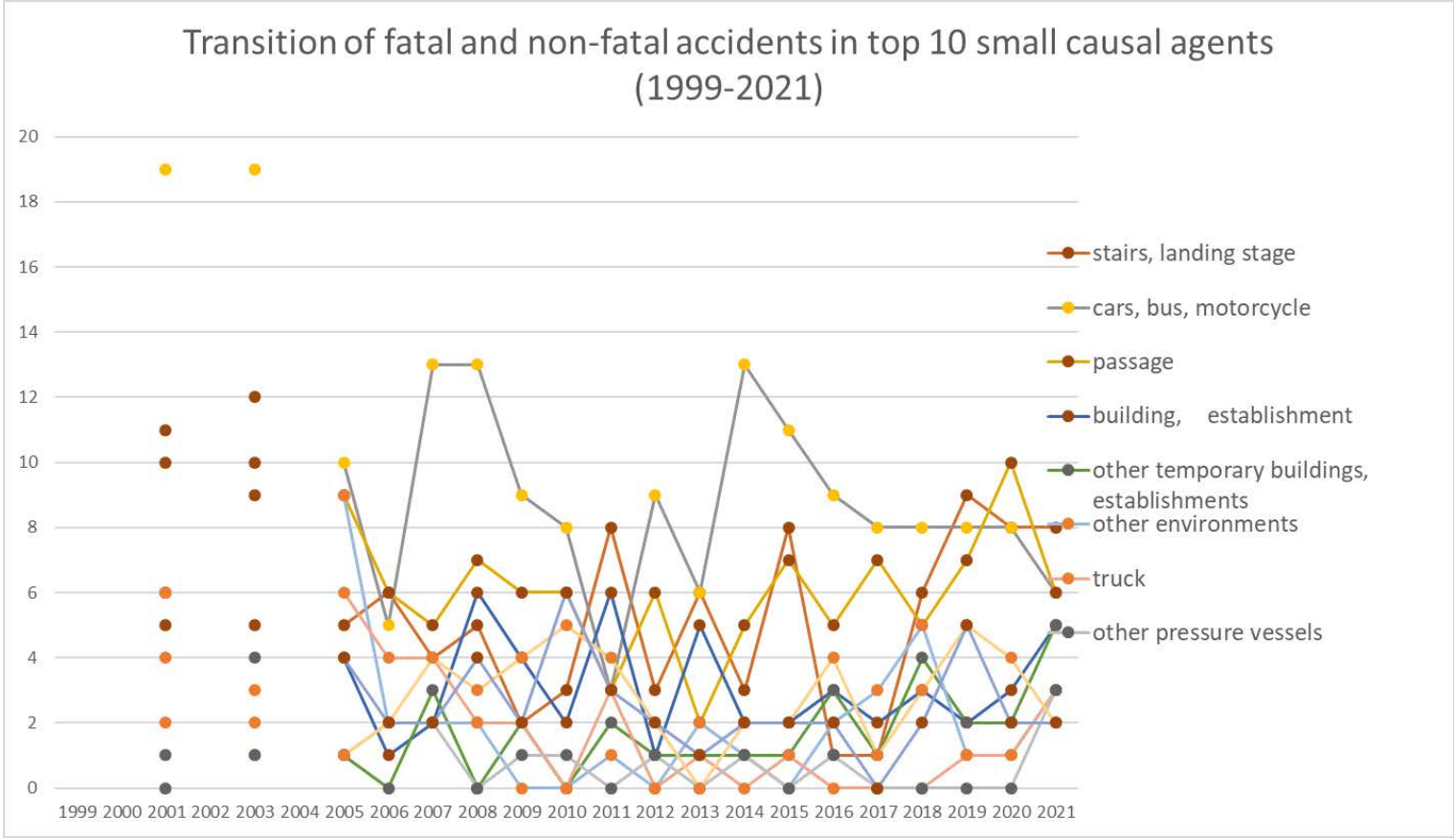
Transition of fatal and non-fatal accidents in each element like as causal agents, type of accidents, etc. in code no. 011602 city gas service (1999-2021)



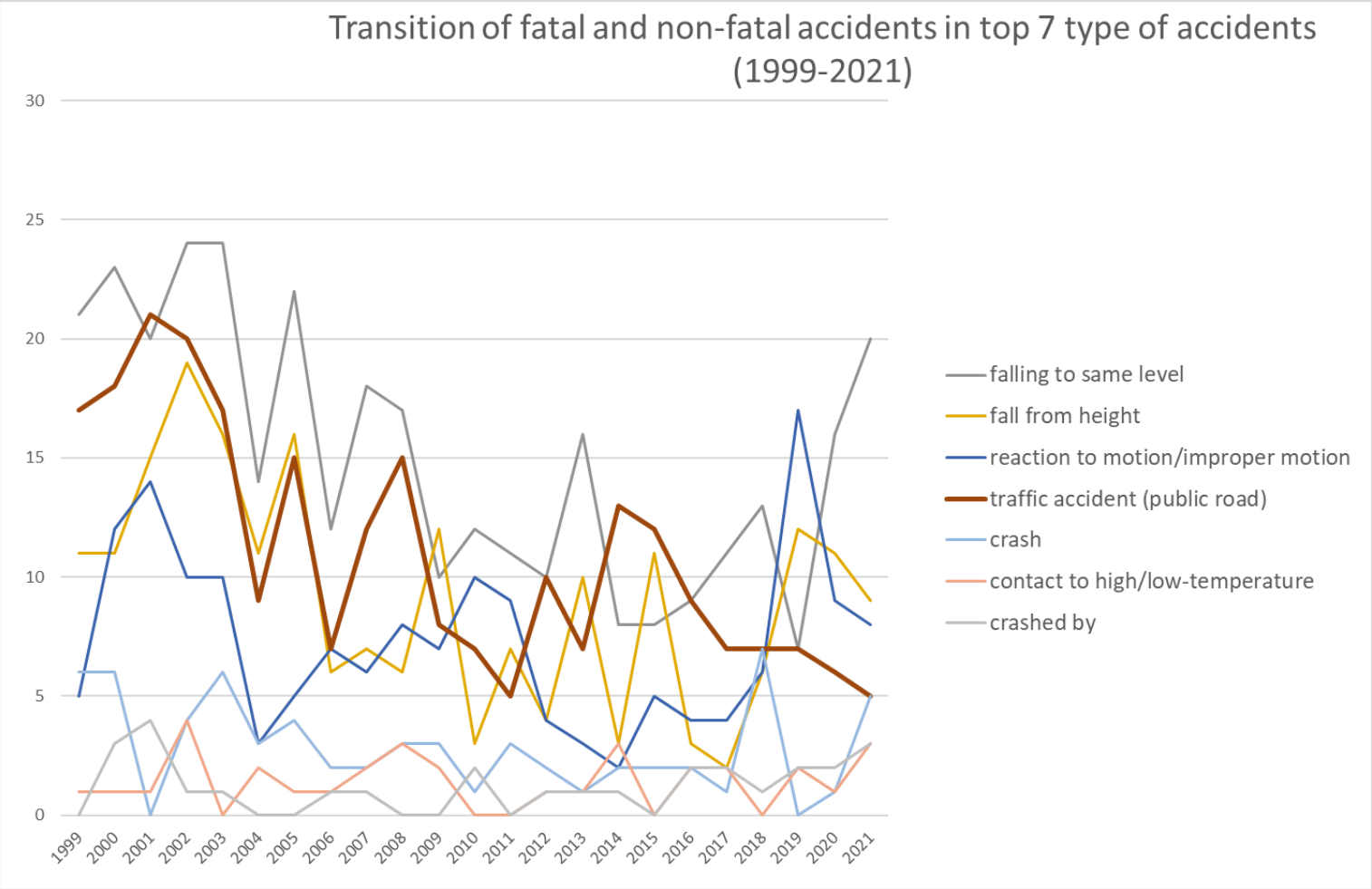
Transition of fatal and non-fatal accidents in large causal agents in code no. 011602 city gas service (1999-2021)



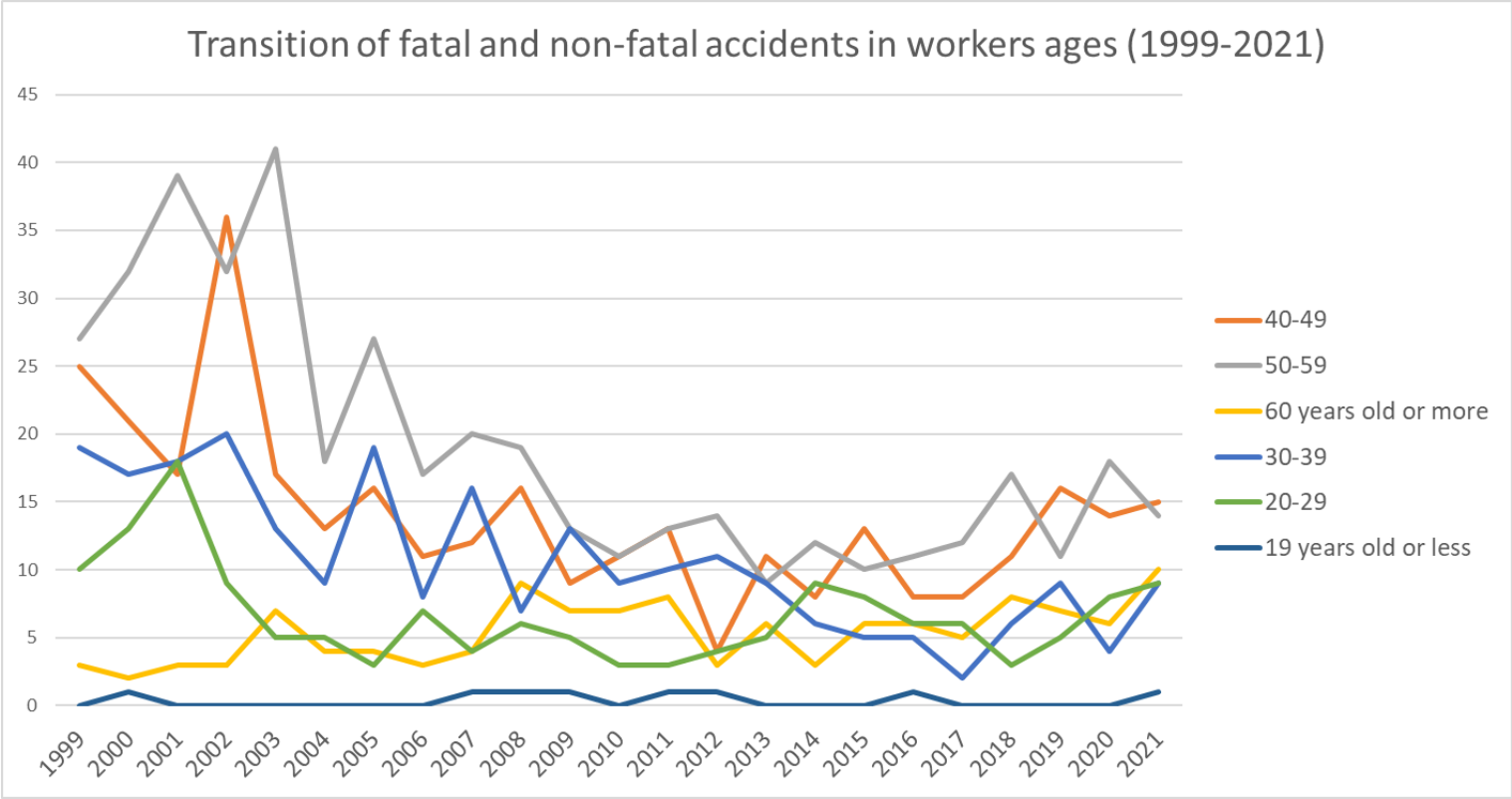
Transition of fatal and non-fatal accidents in middle causal agents in code no. 011602 city gas service (1999-2021)



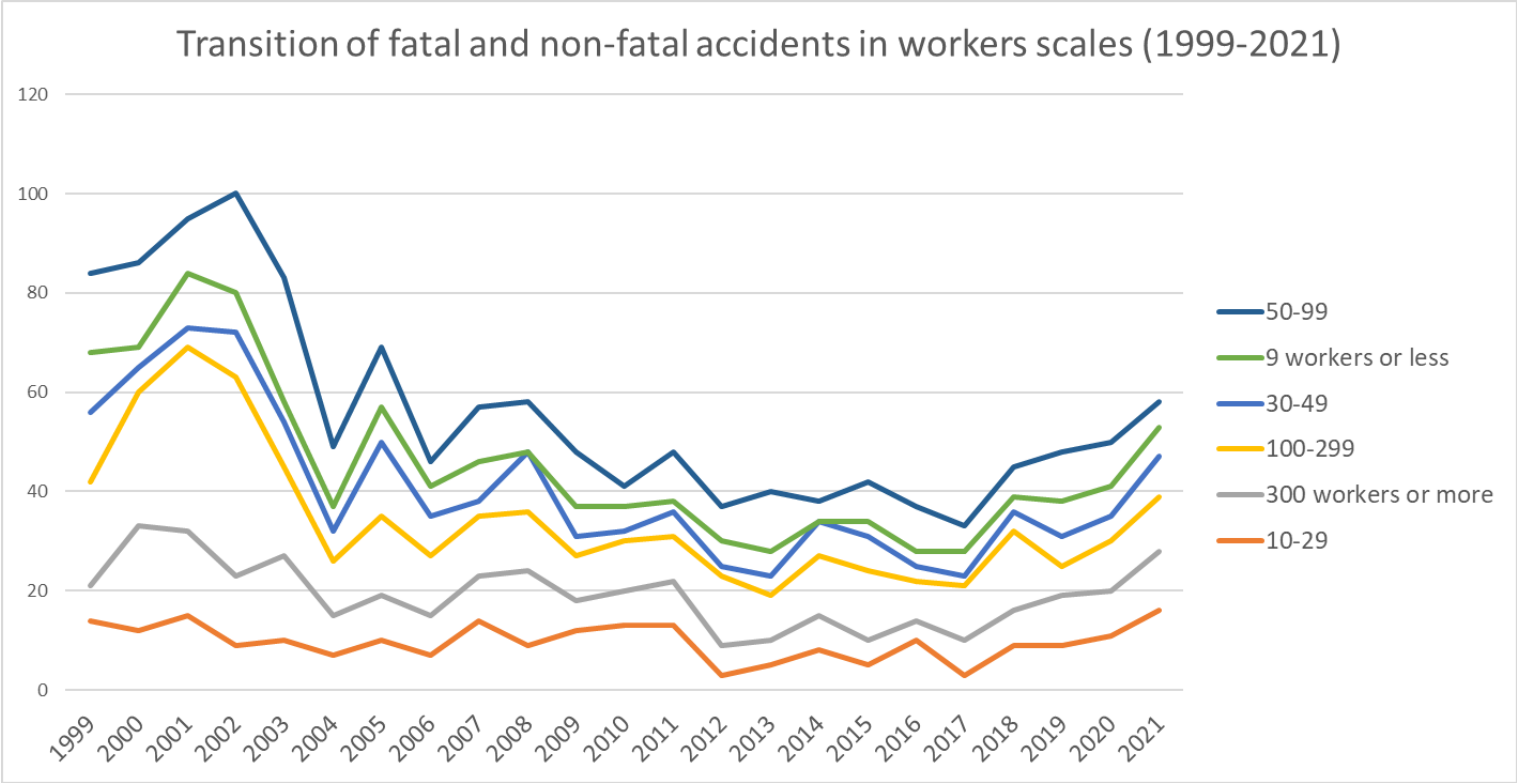
Transition of fatal and non-fatal accidents in small causal agents in code no. 011602 city gas service (1999-2021)



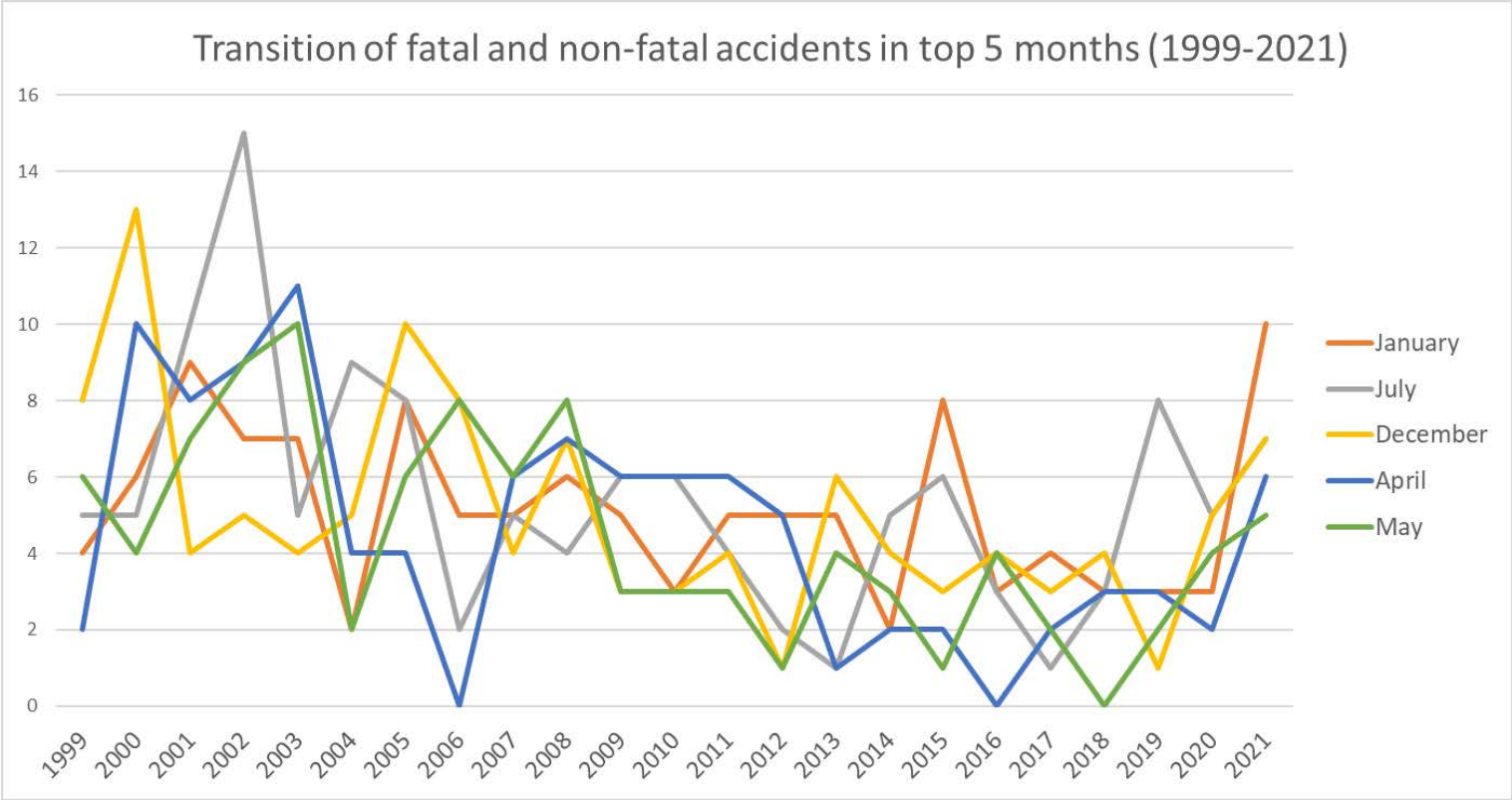
Transition of fatal and non-fatal accidents in type of accidents in code no. 011602 city gas service (1999-2021)



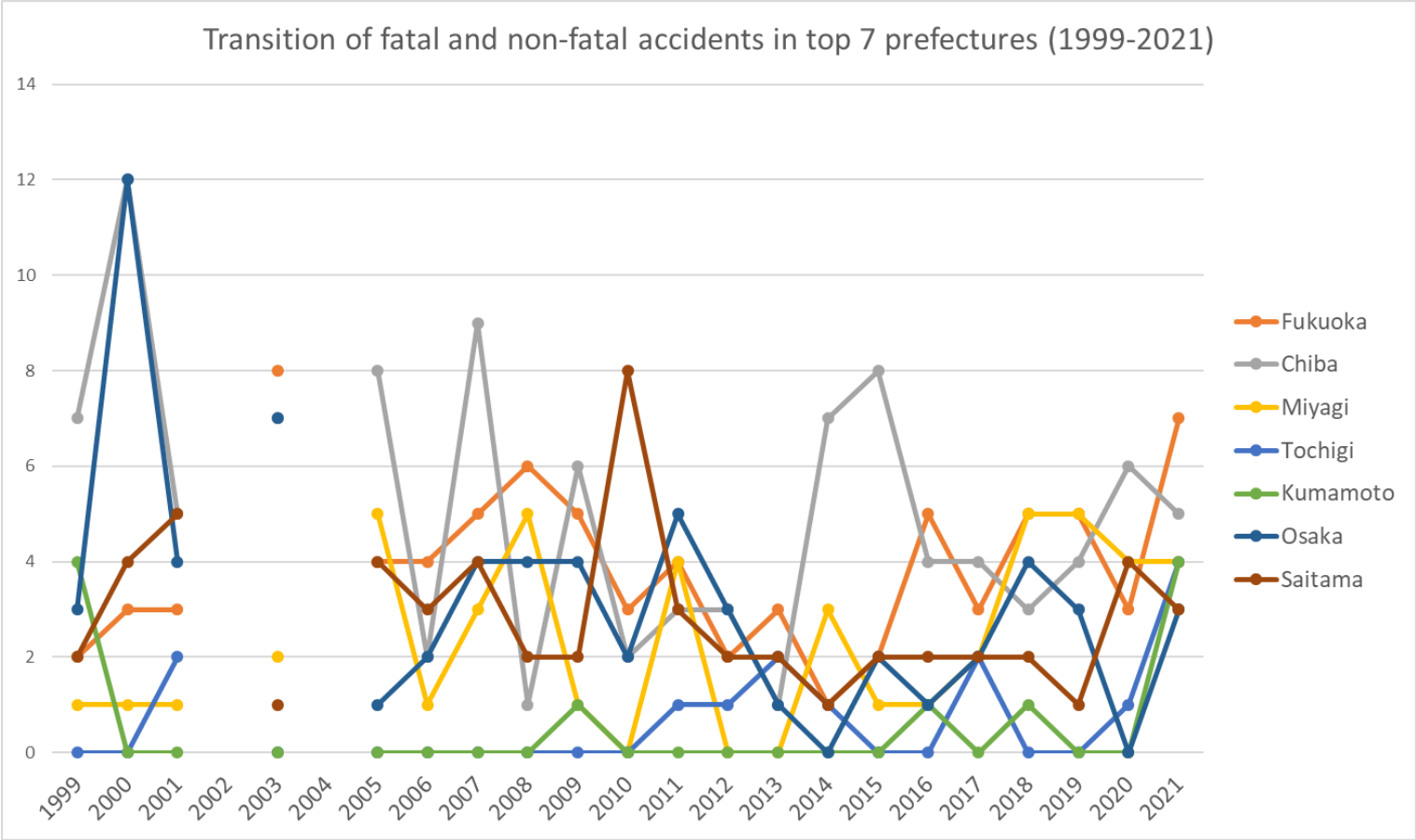
Transition of fatal and non-fatal accidents in workers ages in code no. 011602 city gas service (1999-2021)



Transition of fatal and non-fatal accidents in workers scales in code no. 011602 city gas service (1999-2021)



Transition of fatal and non-fatal accidents in months in code no. 011602 city gas service (1999-2021)



Transition of fatal and non-fatal accidents in prefectures in code no. 011602 city gas service (1999-2021)

Transition of fatal and non-fatal accidents in large causal agents in code no. 011602 city gas service (1999-2021)

code	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	total	Causal (L) agents
4	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	489	temporary buildings, establishments
2	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	319	crane, conveying

																										machine
3	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	146	other equipment
7	environment	7	3	4	1	1	2	9	4	2	3	1		2	1	3	2	1	3	4	5	2	1	4	65	environment
5	substance, material	8	6	8	11	1	3	4	3	4		1	1	2	1	2	1	1	1	2		2	2	3	67	substance, material
9	others	5	8	6	6	5	5	5	3	2	4	4	7	5	2	2	4	2	2	2	2	6	2	3	92	others
1	machine		3	1	2	2	1	1	2	2	4	1	3	1	3		1	1	2		1			2	33	machine
6	load	6	4	8	6	2	1	1	3	4	3	6	6	4	2		2	2	4	1	4	6	4	2	81	load
	total	84	86	95	100	83	49	69	46	57	58	48	41	48	37	40	38	42	37	33	45	48	50	58	1,292	total

Transition of fatal and non-fatal accidents in middle causal agents in code no. 011602 city gas service (1999-2021)

code	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	total	Causal (M) agents
41	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	489	temporary buildings, establishments
23	vehicle	19	21	20	20	19	9	10	5	13	15	9	8	4	9	8	13	11	9	8	8	8	8	6	260	vehicle
71	natural environment	7	3	4	1	1	2	9	4	2	3	1		2	1	3	2	1	3	4	5	2	1	4	65	natural environment
22	conveying machine	3	3	2	6	4	3	6	4	5	2	2	1	5		1	1	1				1	1	4	55	conveying machine
37	tools		3	5	4	2	2	2		1	4			1	3	4		3	2	1	3	3	6	3	52	tools
31	pressure vessel				2	1	1	2	2	2		1	1		1		1		1					3	18	pressure vessel
61	load	6	4	8	6	2	1	1	3	4	3	6	6	4	2		2	2	4	1	4	6	4	2	81	load

92	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	63	no causal agent
51	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
39	other equipments, facilities	1	3	6	4	2		2	2	4	3	2		2		2	2	2		3				2	42	other equipments, facilities
14	construction machine			1		1	1		1		1	1	1											2	9	construction machine
91	other causal agent	2	6		2		2	1	1			2	1	2		1	2			2		1		1	26	other causal agent
52	materials	3	1	2	2	1	1	2	1	2				1		2		1				1		1	21	materials
36	human power machine, tools	3	2	4	1	3		4		1		2	1	1	1	1			1		2				27	human power machine, tools
16	general machine		2		1	1		1	1		1		1		2		1	1	2		1				15	general machine
15	metal manufacturing machine		1		1						1		1												4	metal manufacturing machine
21	crane	2				1															1				4	crane
34	kiln, caldron			1							2	1													4	kiln, caldron
13	woodworking machine									2					1										3	woodworking machine
																										electric

35	electric equipment			1				1	1																	3	equipment
99	unclassifiable	1		1			1																			3	unclassifiable
11	engine													1												1	engine
12	power transmission mechanism										1															1	power transmission mechanism
17	mobile silviculture machine																										mobile silviculture machine
32	chemical facilities																										chemical facilities
33	welding equipment																										welding equipment
	total	84	86	95	100	83	49	69	46	57	58	48	41	48	37	40	38	42	37	33	45	48	50	58	1,292	total

Transition of fatal and non-fatal accidents in small causal agents in code no. 011602 city gas service (1999-2021)

code	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	total	Causal (S) agents
413	stairs, landing stage			10		10		5	6	4	5	2	3	8	3	6	3	8	1	1	6	9	8	8	106	stairs, landing stage
231	cars, bus, motorcycle			19		19		10	5	13	13	9	8	3	9	6	13	11	9	8	8	8	8	6	185	cars, bus, motorcycle
417	passage			11		12		9	6	5	7	6	6	3	6	2	5	7	5	7	5	7	10	6	125	passage
418	building, establishment			6		9		4	1	2	6	4	2	6	1	5	2	2	3	2	3	2	3	5	68	building, establishment
	other temporary																									other temporary

419	buildings, establishments			1		4		1		3		2		2	1	1	1	1	3	1	4	2	2	5	34	buildings, establishments
719	other environments			4		1		9	2	2	2			1		2	1		2	3	5	1	1	3	39	other environments
221	truck			2		3		6	4	4	2	2		3		1		1				1	1	3	33	truck
319	other pressure vessels					1		1	2	2		1	1		1		1		1					3	14	other pressure vessels
611	load			6		2		1	2	4	3	4	5	4	2		2	2	4	1	3	5	4	2	56	load
921	no causal agent			5		5		4	2	2	4	2	6	3	2	1	2	2	2		2	5	2	2	53	no causal agent
391	other equipment, facilities			6		2		2	2	4	3	2		2		2	2	2		3				2	34	other equipment, facilities
379	other tools			1						1	1			1	1	1		1	1	1		1	4	2	16	other tools
142	excavating machine			1		1						1	1											2	6	excavating machine
371	ladder			4		2		2			2				2	3		2	1		3	2	2	1	26	ladder
513	inflammable gas			4				1	1	1			1		1		1		1	1		1	2	1	16	inflammable gas
911	other causal agent							1	1			2	1	2		1	2			2		1		1	14	other causal agent
414	opening			1		2		1						1		1								1	7	opening
521	metal material			2		1				1						1						1		1	7	metal material
224	conveyor					1							1	2										1	5	conveyor
415	roof, beam, haze, crossbeam, principal rafter					1			1			1											1	1	5	roof, beam, haze, crossbeam, principal rafter
519	other hazards, harmful substances									1		1		1						1				1	5	other hazards, harmful substances
711	natural ground,								1						1	1								1	4	natural ground,

	rock																									rock
416	working platform, boot board					1		2	3	2		3	1		2	2				1	1		2		20	working platform, boot board
362	human power hauling equipment			4		2		4				1	1	1	1	1			1		2				18	human power hauling equipment
169	other general power machines					1		1	1		1		1		2		1	1	1		1				11	other general power machines
612	machine/equipment as load			2					1			2	1								1	1			8	machine/equipment as load
715	high/cold temperature environment								1		1	1					1		1	1		1			7	high/cold temperature environment
239	other vehicles			1							2			1		2									6	other vehicles
341	kiln, caldron			1							2	1													4	kiln, caldron
411	scaffolding									1			1	1	1										4	scaffolding
131	circular sawing machine									2					1										3	circular sawing machine
364	hand tool					1				1		1													3	hand tool
514	harmful substance			1				1	1																3	harmful substance
522	lumber, bamboo									1				1		1									3	lumber, bamboo
211	crane					1															1				2	crane
351	transmission			1					1																2	transmission
523	stone, sand, substance							1	1																2	stone, sand, substance
529	other materials							1										1							2	other materials

111	engine													1												1	engine
121	power transmission mechanism										1															1	power transmission mechanism
141	leveling, transporting or loading machine								1																	1	leveling, transporting or loading machine
145	demolition machine										1															1	demolition machine
153	grinding machine, buffing machine												1													1	grinding machine, buffing machine
159	other metal manufacturing machines										1															1	other metal manufacturing machines
163	roll machine (except printingroll machine)																		1							1	roll machine (except printingroll machine)
225	loader									1																1	loader
229	other powered conveying machines																1									1	other powered conveying machines
312	pressure vessel							1																		1	pressure vessel
352	electric power facilities							1																		1	electric power facilities
372	slinging tool										1															1	slinging tool
412	timbering					1																				1	timbering
511	explosive substance			1																						1	explosive substance

713	water													1											1	water
714	abnormal environment																	1							1	abnormal environment
999	unclassifiable			1																					1	unclassifiable
132	band sawing machine																									band sawing machine
133	wood planer machine																									wood planer machine
134	hollow chisel mortiser, wood borer																									hollow chisel mortiser, wood borer
135	chamfering machine, router, woodworking milling machine																									chamfering machine, router, woodworking milling machine
136	chain saw																									chain saw
139	other woodworking machines																									other woodworking machines
143	foundation work machine																									foundation work machine
144	hardening machine																									hardening machine
146	vehicle for high lift work																									vehicle for high lift work
149	other construction machines																									other construction machines

151	lathe																									lathe
152	drill press, milling machine																									drill press, milling machine
154	power press																									power press
155	forging pressure hammer																									forging pressure hammer
156	shearing machine																									shearing machine
161	centrifugal machine																									centrifugal machine
162	mixer, grinder																									mixer, grinder
164	injection molding machine																									injection molding machine
165	food manufacturing machine																									food manufacturing machine
166	printing machine																									printing machine
167	industrial robot																									industrial robot
171	felling machine																									felling machine
172	mobile logging machine																									mobile logging machine
173	skyline yarding machine																									skyline yarding machine
179	other mobile silviculture machine																									other mobile silviculture machine
212	mobile crane																									mobile crane
213	derrick crane																									derrick crane

214	elevator, lift																									elevator, lift
215	cargo lifting appliance																									cargo lifting appliance
216	gondola																									gondola
217	lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway
218	simple skyline yarding equipment																									simple skyline yarding equipment
219	other powered crane																									other powered crane
222	forklift																									forklift
223	railway equipment																									railway equipment
226	straddle carrier																									straddle carrier
227	rough terrain hauler																									rough terrain hauler
232	railway vehicle																									railway vehicle
311	boiler																									boiler
321	chemical facilities																									chemical facilities
331	gas welding equipment																									gas welding equipment
332	arc welding equipment																									arc welding equipment
339	other welding equipment																									other welding equipment
342	industrial dryer																									industrial dryer

349	other kiln, caldron																									other kiln, caldron
359	other electrical equipment																									other electrical equipment
361	human power cranes																									human power cranes
363	human power machine																									human power machine
512	inflammable substance																									inflammable substance
515	radiation																									radiation
712	standing tree																									standing tree
	total			95		83		69	46	57	58	48	41	48	37	40	38	42	37	33	45	48	50	58	973	total

Transition of fatal and non-fatal accidents in type of accidents in code no. 011602 city gas service (1999-2021)

code	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	total	Type of accidents
02	falling to same level	21	23	20	24	24	14	22	12	18	17	10	12	11	10	16	8	8	9	11	13	7	16	20	346	falling to same level
01	fall from height	11	11	15	19	16	11	16	6	7	6	12	3	7	4	10	3	11	3	2	6	12	11	9	211	fall from height
19	reaction to motion/improper motion	5	12	14	10	10	3	5	7	6	8	7	10	9	4	3	2	5	4	4	6	17	9	8	168	reaction to motion/improper motion
17	traffic accident (public road)	17	18	21	20	17	9	15	7	12	15	8	7	5	10	7	13	12	9	7	7	7	6	5	254	traffic accident (public road)
03	crash	6	6		4	6	3	4	2	2	3	3	1	3	2	1	2	2	2	1	7		1	5	66	crash

11	contact to high/low-temperature	1	1	1	4		2	1	1	2	3	2			1	1	3		2	2		2	1	3	33	contact to high/low-temperature
06	crashed by		3	4	1	1			1	1			2		1	1	1		2	2	1	2	2	3	28	crashed by
07	caught in/between	7	3	4	4	6	1	3	6	1	2	3	1	3			1	1	4	2	2		1	2	57	caught in/between
05	collapse			1	3		1						1	1	1		2		1		1			2	14	collapse
09	injury to the sole of the foot	1				1																		1	3	injury to the sole of the foot
04	struck by flying or falling object	3	3	5	3	1	2		3	5	2	1	1	4	2		2	2	1		1	1	2		44	struck by flying or falling object
08	cut	4	1	2	1	1		1		3	1	1		1	2		1								19	cut
12	contact to harmful substance	1	3	1	5			1	1				1	1				1		1					16	contact to harmful substance
90	others	3	1	2			3							2		1				1					13	others
14	explosion	4	1																						5	explosion
16	fire			3								1											1		5	fire
18	traffic accident (others)			1	1						1		1								1				5	traffic accident (others)
99	unclassifiable			1	1								1												3	unclassifiable
10	drown													1											1	drown
13	electric shock							1																	1	electric shock
15	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	1,292	total

Transition of fatal and non-fatal accidents in workers ages in code no. 011602 city gas service (1999-2021)

code	Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
4	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	325	40-49
5	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	437	50-59
6	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	124	60 years old or more
3	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
2	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	154	20-29
1	19 years old or less		1							1	1	1		1	1				1					1	8	19 years old 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	1,292	total

Transition of fatal and non-fatal accidents in workers scales in code no. 011602 city gas service (1999-2021)

code	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	total	Workers scale
2	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	224	10-29
6	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	219	300 workers or more
5	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	345	100-299
3	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	144	30-49
1	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	121	9 workers or less
4	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	239	50-99
	total	84	86	95	100	83	49	69	46	57	58	48	41	48	37	40	38	42	37	33	45	48	50	58	1,292	total

Transition of fatal and non-fatal accidents in months in code no. 011602 city gas service (1999-2021)

code	Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
1	January	4	6	9	7	7	2	8	5	5	6	5	3	5	5	5	2	8	3	4	3	3	3	10	118	January
7	July	5	5	10	15	5	9	8	2	5	4	6	6	4	2	1	5	6	3	1	3	8	5	7	125	July
12	December	8	13	4	5	4	5	10	8	4	7	3	3	4	1	6	4	3	4	3	4	1	5	7	116	December
4	April	2	10	8	9	11	4	4		6	7	6	6	6	5	1	2	2		2	3	3	2	6	105	April
5	May	6	4	7	9	10	2	6	8	6	8	3	3	3	1	4	3	1	4	2		2	4	5	101	May
11	November	2	7	6	11	4	5	2	3	5	1	5	5	4	2	3	2		3	4	6	4	2	5	91	November
3	March	7	6	14	7	9	3	6	5	6	2	4	3	5	6	2	7	4	4	2	3	9	3	4	121	March
2	February	15	7	5	5	3	5	5	5	5	6	3	1	3	6	6	4	1	3	3	12	3	6	4	116	February
10	October	4	10	6	13	10	2	6	1	6	6	2	4	3	3	3	2	4	7	4		2	3	4	105	October
6	June	8	9	10	5	9	3	5	3	2	5	4	3	4	2	4	4	2	3	4	4	3	6	3	105	June
9	September	13	6	7	8	8	5	4	4	2	3	4	4	7	3	3	1	2		1	5	5	8	2	105	September
8	August	10	3	9	6	3	4	5	2	5	3	3			1	2	2	9	3	3	2	5	3	1	84	August
	total	84	86	95	100	83	49	69	46	57	58	48	41	48	37	40	38	42	37	33	45	48	50	58	1,292	total

Transition of fatal and non-fatal accidents in prefectures in code no. 011602 city gas service (1999-2021)

code	Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
40	Fukuoka	2	3	3		8		4	4	5	6	5	3	4	2	3	1	2	5	3	5	5	3	7	83	Fukuoka
12	Chiba	7	12	5		7		8	2	9	1	6	2	3	3	1	7	8	4	4	3	4	6	5	107	Chiba
4	Miyagi	1	1	1		2		5	1	3	5	1		4			3	1	1	2	5	5	4	4	49	Miyagi
9	Tochigi			2										1	1	2	1			2			1	4	14	Tochigi
43	Kumamoto	4										1							1		1			4	11	Kumamoto
27	Osaka	3	12	4		7		1	2	4	4	4	2	5	3	1		2	1	2	4	3		3	67	Osaka

11	Saitama	2	4	5		1		4	3	4	2	2	8	3	2	2	1	2	2	2	2	1	4	3	59	Saitama
34	Hiroshima	1	3	2		1		2	4	3	3	1	1			3	2	1	1		2	1	2	3	36	Hiroshima
17	Ishikawa	1										1									1	2		3	8	Ishikawa
21	Gifu	2	5	2		2					2	2							1		1	2	1	2	22	Gifu
42	Nagasaki	1	1	3				1	3	1	2	1		1			1					1		2	18	Nagasaki
33	Okayama			1		2					3						1	1			1		1	2	12	Okayama
16	Toyama			1		1			1			1												2	6	Toyama
13	Tokyo	13	21	23		14		10	1	3	3	3	11	7	6	6	7	4	1	1		3	5	1	143	Tokyo
23	Aichi	5	3	3		7		7	5	3	6	1	5	1	1	4	2	3	1	3	4	1	2	1	68	Aichi
14	Kanagawa	7	8	12		2		1	1	1	3	1		2		5	1	1	1	5	7	2	1	1	62	Kanagawa
1	Hokkaido	3	3	3		6		7	2	2	1		1				1		2	1	1	3	3	1	40	Hokkaido
28	Hyogo	5	1	2		5		2	3	3	1				1	1		1	2			2	4	1	34	Hyogo
46	Kagoshima	1		4		1		1	1	1	1	1	1	2	1	3	2	4	1			1		1	27	Kagoshima
10	Gunma	1		2		1			2	1		1	1		3		1	1	1	1			1	1	18	Gunma
7	Fukushima			1		2			1		2		1	2	4				2					1	16	Fukushima
29	Nara	1	1							1	1	2			1	1	1	2		2				1	14	Nara
20	Nagano	1		2				1	2	1	1					1				1		1	1	1	13	Nagano
15	Niigata	1										2	1			1	1	2	1	1			1	1	12	Niigata
25	Shiga					1		3	1					1					1				1	1	9	Shiga
39	Kochi	1				1		1									1	1				2		1	8	Kochi
45	Miyazaki	1		1					1															1	4	Miyazaki
22	Shizuoka	4	1	7		3		4	1	5	4	3		2	1		1	4	3		4	1	1		49	Shizuoka
8	Ibaraki	1		1		1			1	2	2			3		2	1		1			1	1		17	Ibaraki

24	Mie	1	2	1					2		1	3			1		1			2	1		2		17	Mie
44	Oita							1					3	3	4			1				2	1		15	Oita
2	Aomori	2	1			1		1						1		2			1		1		1		11	Aomori
41	Saga			2		1		1		2						2	1					1	1		11	Saga
26	Kyoto	2	1	1		2												1	1			1	1		10	Kyoto
6	Yamagata	5									1	1		1	1										9	Yamagata
35	Yamaguchi					1		4				1	1	1					1						9	Yamaguchi
3	Iwate					1				1		1			1						1	1			6	Iwate
38	Ehime	2				1					1				1				1						6	Ehime
18	Fukui	2							1			1													4	Fukui
31	Tottori		1			1			1											1					4	Tottori
19	Yamanashi			1																	1	1			3	Yamanashi
36	Tokushima										1											1	1		3	Tokushima
37	Kagawa		1								1	1													3	Kagawa
47	Okinawa	1								2															3	Okinawa
5	Akita											1		1											2	Akita
30	Wakayama		1																						1	Wakayama
32	Shimane																									Shimane
	total	84	86	95		83		69	46	57	58	48	41	48	37	40	38	42	37	33	45	48	50	58	1,143	total

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