Transition of fatal and non-fatal accidents in each element like as causal agents, type of accidents, etc. in code no. 011603 city water service (1999-2021)

Transition of fatal and non-fatal accidents in large causal agents in code no. 011603 city water service (1999-2021)

Transition of fatal and non-fatal accidents in middle causal agents in code no. 011603 city water service (1999-2021)

Transition of fatal and non-fatal accidents in small causal agents in code no. 011603 city water service (1999-2021)

Transition of fatal and non-fatal accidents in type of accidents in code no. 011603 city water service (1999-2021)

Transition of fatal and non-fatal accidents in workers ages in code no. 011603 city water service (1999-2021)

Transition of fatal and non-fatal accidents in workers scales in code no. 011603 city water service (1999-2021)

Transition of fatal and non-fatal accidents in months in code no. 011603 city water service (1999-2021)

Transition of fatal and non-fatal accidents in prefectures in code no. 011603 city water service (1999-2021)

Transition of fatal and non-fatal accidents in large causal agents in code no. 011603 city water 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	18	16	23	12	20	16	17	15	21	22	23	19	25	28	14	20	17	16	23	23	19	23	25	455	temporary buildings, establishments
3	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	149	other equipment

2	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	247	crane, conveying machine
7	environment	5		3	4	2	4	4	2	3	2	5	2	6	3		4	1	2		3	1	2	4	62	environment
9	others	3	6	6	1	3	4	5	2	1	1	1	4	3	6	2	1	1	2	6	2	1	3	4	68	others
1	machine	1	3	2	5	1	4	3	4	4	2	2	1	6	5	2	2	3	1	1	2	3	4	3	64	machine
5	substance, material	2	3	3		3	2	5	8	5	4	2	4	2	2	2	2	4	2		1	2	1	2	61	substance, material
6	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	1,130	total

Transition of fatal and non-fatal accidents in middle causal agents in code no. 011603 city water 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	18	16	23	12	20	16	17	15	21	22	23	19	25	28	14	20	17	16	23	23	19	23	25	455	temporary buildings, establishments
37	tools		2	3	1	4	3	1	1	4	5	4	1	3	1	3	3	2	4	2	3	4	7	7	68	tools
23	vehicle	4	11	11	9	10	16	4	9	7	12	17	9	10	7	9	8	7	4	8	7	9	6	4	198	vehicle
71	natural environment	5		3	4	2	4	4	2	3	2	5	2	6	3		4	1	2		3	1	2	4	62	natural environment
36	human power machine, tools	1	1	2	3		1	3	2		1	3	2	2		2	4		1	3	2	1		3	37	human power machine, tools
39	other equipments,	2	2			2		1	2	1	1	1	1	1	1	1	2	2	2	1	1	1	5	3	33	other equipments,

	facilities																									facilities
92	no causal agent	3	4	4	1	2	2	3	1				3	3	5	2	1	1	2	4	1	1	1	2	46	no causal agent
22	conveying machine	1		1	3	1		2	2	2	1	5	6	2	3	1		5	2	1				2	40	conveying machine
91	other causal agent		2	1		1	1	2	1	1	1		1		1					2			2	2	18	other causal agent
52	materials	1	2	3		2		5	5	2	2	2	4	2	2	2	1	2	1		1	2		1	42	materials
61	load	1	3	2	1			1	1	2	1	3	1		1		2	1		2	1			1	24	load
51	hazards, harmful substances	1	1			1	2		3	3	2						1	2	1				1	1	19	hazards, harmful substances
12	power transmission mechanism						1		1			1		3		1	1	2						1	11	power transmission mechanism
13	woodworking machine				1		2		1			1		1	1		1				1		1	1	11	woodworking machine
21	crane			1					3	1			1									1	1	1	9	crane
14	construction machine			1						1	1				1									1	5	construction machine
16	general machine	1	3	1	4	1	1	2	2	2	1			2	1	1			1	1		3	3		30	general machine
35	electric equipment		2	2	1						2		1				1						1		10	electric equipment
																										metal

15	metal manufacturing machine							1		1					2			1			1				6	manufacturing machine
99	unclassifiable			1			1					1									1				4	unclassifiable
11	engine												1												1	engine
31	pressure vessel					1																			1	pressure vessel
17	mobile silviculture machine																									mobile silviculture machine
32	chemical facilities																									chemical facilities
33	welding equipment																									welding equipment
34	kiln, caldron																									kiln, caldron
	total	38	49	59	40	47	50	46	51	51	54	66	52	60	57	36	49	43	36	47	45	42	53	59	1,130	total

Transition of fatal and non-fatal accidents in small causal agents in code no. 011603 city water 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
419	other temporary buildings, establishments			6		1		2	1	2	1	3		2	5	2	3	1	1	4	3	2	6	7	52	other temporary buildings, establishments
417	passage			6		7		3	5	7	6	2	3	6	8	2	8	6	4	7	13	11	5	6	115	passage
413	stairs, landing stage			3		2		5	2	5	5	5	7	9	12	1	4	4	5	6	4	2	9	5	95	stairs, landing stage
371	ladder			3		2		1	1	3	5	4	1	2	1	2	2	2	3	2	2	1	4	5	46	ladder
231	cars, bus,			11		10		4	9	7	12	17	9	10	6	9	8	7	4	8	6	9	6	4	156	cars, bus,

	motorcycle																									motorcycle
418	building, establishment			7		6		3	4	6	6	9	7	5	1	8	3	2	2	3	2	2		3	79	building, establishment
391	other equipment, facilities					2		1	2	1	1	1	1	1	1	1	2	2	2	1	1	1	5	3	29	other equipment, facilities
715	high/cold temperature environment			1						1			1						1		1			3	8	high/cold temperature environment
921	no causal agent			4		2		3	1				3	3	5	2	1	1	2	4	1	1	1	2	36	no causal agent
416	working platform, boot board					2		1	3		2	2	2	2			1	3	2		1		1	2	24	working platform, boot board
364	hand tool			1				2	1			3	2	1		2	1			2	2			2	19	hand tool
379	other tools					2								1		1	1		1		1	3	3	2	15	other tools
911	other causal agent			1		1		2	1	1	1		1		1					2			2	2	15	other causal agent
224	conveyor									1	1	2	2						1					2	9	conveyor
719	other environments			1		1		2	1	1	2	2			2		3		1		2	1	1	1	21	other environments
611	load			2				1	1	2	1	2	1		1		2	1		2	1			1	18	load
362	human power hauling equipment			1				1	1		1			1			2		1	1		1		1	11	human power hauling equipment
121	power transmission mechanism								1			1		3		1	1	2						1	10	power transmission mechanism
529	other materials			1				1	3				1			1								1	8	other materials
519	other hazards, harmful substances					1					2												1	1	5	other hazards, harmful substances
142	excavating machine			1						1	1													1	4	excavating machine

219	other powered crane								3																1	4	other powered crane
415	roof, beam, haze, crossbeam, principal rafter					1								1	1										1	4	roof, beam, haze, crossbeam, principal rafter
139	other woodworking machines								1								1								1	3	other woodworking machines
411	scaffolding					1		1																	1	3	scaffolding
521	metal material			2		2		1	1	1	2	1	3	1	2	1		2	1		1	2			23	metal material
221	truck			1		1		1	2	1		1	3	2	2	1		5	1						21	truck
414	opening			1				2		1	2	2			1	1	1	1	2	3		2	2		21	opening
169	other general power machines			1		1		2	1	2	1			2	1	1			1	1		3	2		19	other general power machines
713	water								1			2		6											9	water
523	stone, sand, substance							3	1	1		1		1			1								8	stone, sand, substance
514	harmful substance								2								1	2	1						6	harmful substance
711	natural ground, rock					1		1				1	1					1							5	natural ground, rock
712	standing tree			1				1		1					1		1								5	standing tree
513	inflammable gas								1	3															4	inflammable gas
136	chain saw														1						1		1		3	chain saw
159	other metal manufacturing									1					1						1				3	other metal manufacturing

	machines																										machines
212	mobile crane												1									1	1		3		mobile crane
222	forklift											2								1					3		forklift
352	electric power facilities										2		1												3		electric power facilities
999	unclassifiable			1								1									1				3		unclassifiable
131	circular sawing machine											1		1											2		circular sawing machine
153	grinding machine, buffing machine														1			1							2		grinding machine, buffing machine
211	crane			1						1															2		crane
229	other powered conveying machines							1							1										2		other powered conveying machines
239	other vehicles														1						1				2		other vehicles
351	transmission																1						1		2		transmission
359	other electrical equipment			2																					2		other electrical equipment
111	engine												1												1		engine
145	demolition machine														1										1		demolition machine
154	power press							1																	1		power press
162	mixer, grinder								1																1		mixer, grinder
163	roll machine (except printingroll machine)																						1		1		roll machine (except printingroll machine)

225	loader												1												1	loader
311	boiler					1																			1	boiler
363	human power machine																1								1	human power machine
372	slinging tool									1															1	slinging tool
612	machine/equipment as load											1													1	machine/equipment as load
714	abnormal environment																						1		1	abnormal environment
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
141	leveling, transporting or loading machine																									leveling, transporting or loading machine
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
155	forging pressure hammer																									forging pressure hammer
156	shearing machine																									shearing machine
161	centrifugal machine																									centrifugal machine
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

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
223	railway equipment																									railway equipment
226	straddle carrier																									straddle carrier
227	rough terrain hauler																									rough terrain hauler
232	railway vehicle																									railway vehicle
312	pressure vessel																									pressure vessel
319	other pressure vessels																									other pressure vessels
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

341	kiln, caldron																									kiln, caldron
342	industrial dryer																									industrial dryer
349	other kiln, caldron																									other kiln, caldron
361	human power cranes																									human power cranes
412	timbering																									timbering
511	explosive substance																									explosive substance
512	inflammable substance																									inflammable substance
515	radiation																									radiation
522	lumber, bamboo																									lumber, bamboo
	total			59		47		46	51	51	54	66	52	60	57	36	49	43	36	47	45	42	53	59	953	total

Transition of fatal and non-fatal accidents in type of accidents in code no. 011603 city water 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
01	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	233	fall from height
02	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	268	falling to same level
19	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	130	reaction to motion/improper motion
06	crashed by	1	1	3			1	1		3	1	1	1			1	1	1		2		1	2	5	26	crashed by
04	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	52	struck by flying or falling object

11	contact to high/low-temperature									3	1	1	2						1		1			4	13	contact to high/low-temperature
17	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	173	traffic accident (public road)
07	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	76	caught in/between
03	crash	2	3	3	2	2	1	1	2	2	7	3	2	1	3	3	2	2			1	1	3	3	49	crash
08	cut	1	1		2		3	1	3			3		4	4	1	1	1	1		3		2	2	33	cut
90	others		1	2			1	2		1	2			2	1		1			1			2	2	18	others
05	collapse	1			1	1	1		2				1			1			1			1	1	1	12	collapse
10	drown						2		1			1		4					1	1				1	11	drown
15	burst																							1	1	burst
12	contact to harmful substance	1	1		2	1	2		2	1	1						1	2	1				2		17	contact to harmful substance
13	electric shock	1	2		1						2		1										1		8	electric shock
09	injury to the sole of the foot		1			1						1	1												4	injury to the sole of the foot
99	unclassifiable				1							1		1											3	unclassifiable
18	traffic accident (others)												1					1							2	traffic accident (others)
16	fire								1																1	fire
14	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	1,130	total

Transition of fatal and non-fatal accidents in workers ages in code no. 011603 city water 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	7	6	10	8	12	9	10	10	6	12	16	8	13	14	7	11	10	8	13	12	11	11	21	245	40-49
6	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	291	60 years old or more
5	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	369	50-59
3	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	147	30-39
2	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	72	20-29
1	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	1,130	total

Transition of fatal and non-fatal accidents in workers scales in code no. 011603 city water 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	9	15	10	12	12	16	13	12	15	16	19	14	13	16	13	9	9	10	8	16	9	13	17	296	10-29
3	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	239	30-49
5	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	210	100-299
1	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	134	9 workers or less
4	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	194	50-99
6	300 workers or more	4	1	3	4	1		3		3	1	3	4	5	2	3	1	1	2	6		2	7	1	57	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	1,130	total

Transition of fatal and non-fatal accidents in months in code no. 011603 city water 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
8	August	3	1	3	2	4	7	6	6	6	3	7	8	5	4	3	3	3	7	4	5	2	2	7	101	August
4	April	1	3	5	8	6	6	1	3	3	2	8	2	5	6	2	4	7	1	2	7		5	7	94	April
1	January	5	2	4		6	4	3	8	4	1	4	3	3	6	7	5	3	3	3	2	3	6	6	91	January
12	December	1	2	2	2	1	2	3	4	5	2	5	1	4	6	3	4	2	3	6	4	4	3	6	75	December
5	May	4	4	8	3	5	2	4	5	7	8	5	7	4	8	4	3	4	2	3	1	4	8	5	108	May
7	July	1	7	7	3	5	7	8	3	4	9	4	4	4	3	3	2	3	2	3	4	3	5	5	99	July
3	March	2	3	10	2	4	5	4	3	5	6	5	4	9	5	2	4	3	1	2	2	1	2	5	89	March
2	February	6	4	5	4	2	4	9	8	4	5	9	6	6	5	1	2	5	3	4	6	4	4	4	110	February
6	June	4	6	2	5	5	5	3	2	3	7	1	6	5	3	3	4	2	1	8	4	7	7	4	97	June
11	November	4	7	4	7	3	3	1	3	3	1	5	5	3	9	1	6	3	5	3	3	6	1	4	90	November
10	October	1	6	6	1	3	3	3	4	1	3	8	2	6	2	5	4	6	4	6	4	6	6	3	93	October
9	September	6	4	3	3	3	2	1	2	6	7	5	4	6		2	8	2	4	3	3	2	4	3	83	September
	total	38	49	59	40	47	50	46	51	51	54	66	52	60	57	36	49	43	36	47	45	42	53	59	1,130	total

Transition of fatal and non-fatal accidents in prefectures in code no. 011603 city water 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
14	Kanagawa	5	11	7		12		8	9	5	10	12	9	15	7	7	7	7	7	11	4	3	6	9	171	Kanagawa
27	Osaka	7	7	5		7		7	11	15	8	12	6	4	4	3	3	3	4	3	5	2	8	7	131	Osaka
28	Hyogo	2	4	7		1		1	7	6	7	9	4	6	3	3	1	2	1	6	7	6	4	4	91	Hyogo
13	Tokyo	2	2	5		3		3	4	2	6	6	5	4	7	4	5	3	3	2	3	4	4	4	81	Tokyo
23	Aichi	3	2			1			1			2	5	7	3	2	4	3		1	1	4	5	4	48	Aichi
40	Fukuoka	1	3	2		2			1		2	4	5	1	1	2	2	1		1		1	2	3	34	Fukuoka

16	Toyama	1									1		1		2	1		1			1	1	1	3	13	Toyama
11	Saitama	1	2	2		1		2	4		1	1			2	1	3	1	1		3	1	1	2	29	Saitama
35	Yamaguchi		2	1		2										1	2	1	2	1			1	2	15	Yamaguchi
46	Kagoshima			1				2	2								1	1	1			2		2	12	Kagoshima
47	Okinawa							1		1	1										2	1		2	8	Okinawa
1	Hokkaido	1	2	2		2		4	2	3	4	3	1		1		4	1	3	2	3	3	1	1	43	Hokkaido
34	Hiroshima		1	2		3		5		1			1	3	1	3	1			5	1	3	6	1	37	Hiroshima
37	Kagawa		1	2				1	2	2	2		1	1	2	1	2	4		2	1	2	1	1	28	Kagawa
15	Niigata			4		2			1	1	1	1	3	1	2		1	2	1		2			1	23	Niigata
43	Kumamoto		1	2				2		3			1	2		1	1		1	2			2	1	19	Kumamoto
7	Fukushima							1	2	1		3					1	1			1			1	11	Fukushima
8	Ibaraki	1				1				1		1			3			1			1		1	1	11	Ibaraki
38	Ehime		1									1			1			1	2	2	1			1	10	Ehime
42	Nagasaki					2		1		2	1						1				1	1		1	10	Nagasaki
29	Nara											2	1					2	1			2		1	9	Nara
6	Yamagata	1	1	1				2					1								1			1	8	Yamagata
25	Shiga	3	1			1				1														1	7	Shiga
20	Nagano					1												2			1	1		1	6	Nagano
9	Tochigi	1	1											2										1	5	Tochigi
41	Saga														1	1				1				1	4	Saga
19	Yamanashi					1						1												1	3	Yamanashi
36	Tokushima							2																1	3	Tokushima
26	Kyoto		2	5						1	1	3		1	6	1	6	2	3		2		2		35	Kyoto

4	Miyagi	1	2	2				1	1	2	3	1		6	4		1			1			2		27	Miyagi
12	Chiba	2		1		1				1		2	2		2		1	1	2	3	3		2		23	Chiba
3	Iwate			1		1			4	1		1	1	2					2						13	Iwate
33	Okayama	1		1		1							2		1	1			1	1		1			10	Okayama
2	Aomori		1														2			1	1	2			7	Aomori
22	Shizuoka	1	1								3	1											1		7	Shizuoka
30	Wakayama							2			2		1	1											6	Wakayama
10	Gunma			2						1				1						1					5	Gunma
21	Gifu			1		1																2	1		5	Gifu
24	Mie	1								1						2			1						5	Mie
39	Kochi	1						1			1				1	1									5	Kochi
45	Miyazaki	2		1														1		1					5	Miyazaki
5	Akita			1										1	1			1							4	Akita
17	Ishikawa			1											2								1		4	Ishikawa
32	Shimane												1	1		1							1		4	Shimane
44	Oita					1							1	1				1							4	Oita
18	Fukui		1																						1	Fukui
31	Tottori																									Tottori
	total	38	49	59		47		46	51	51	54	66	52	60	57	36	49	43	36	47	45	42	53	59	1,040	total

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