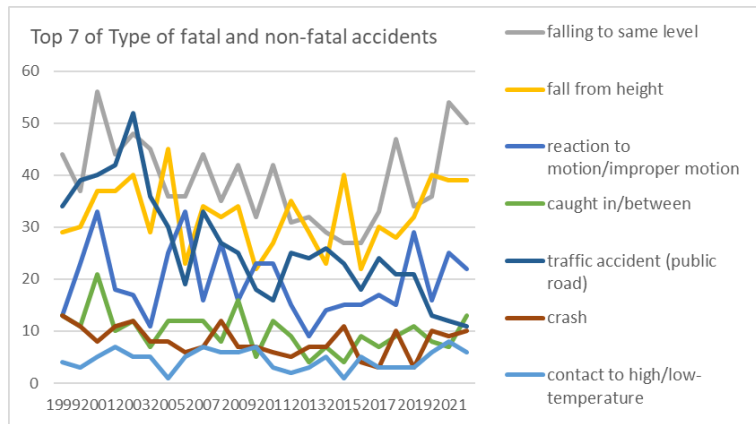
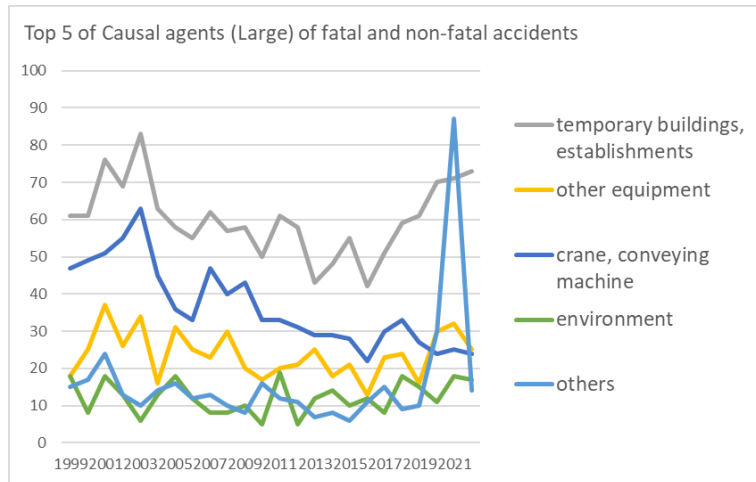


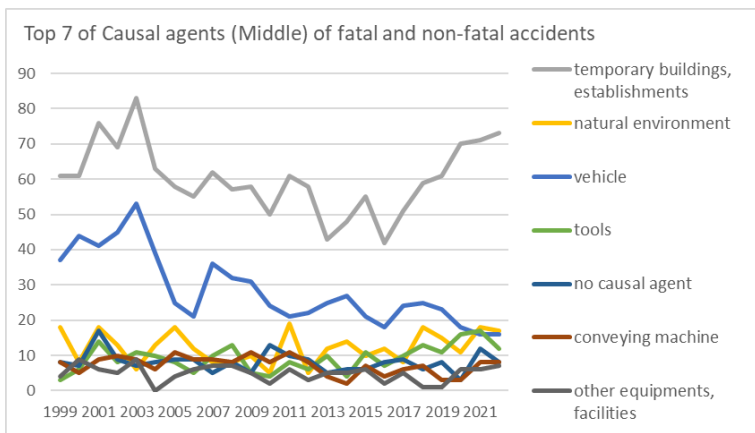
Transition of fatal and non-fatal accidents in 0116 electric/gas/water service in Japan (1999-2022)



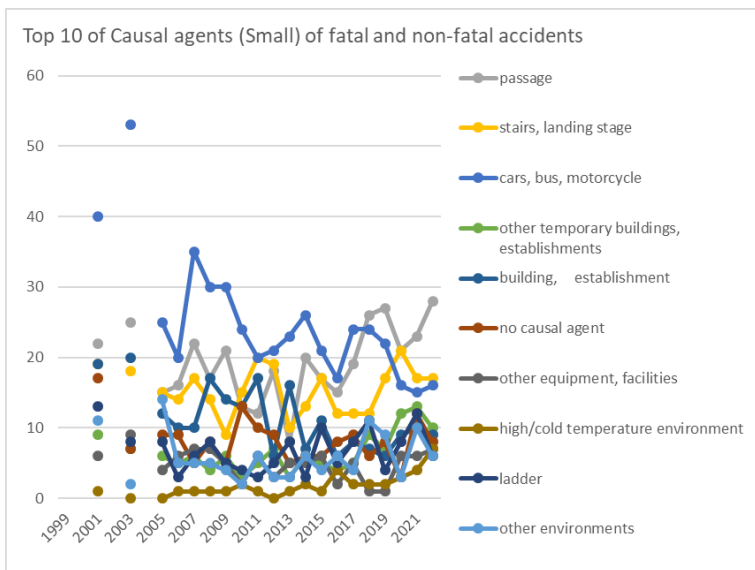
Transition of Top 7 of Type of fatal and non-fatal accidents in 0116 electric/gas/water service in Japan (1999-2022)



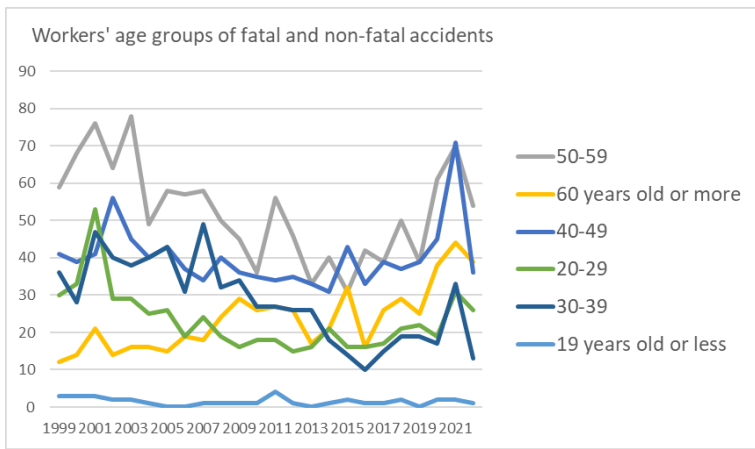
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 0116 electric/gas/water service in Japan (1999-2022)



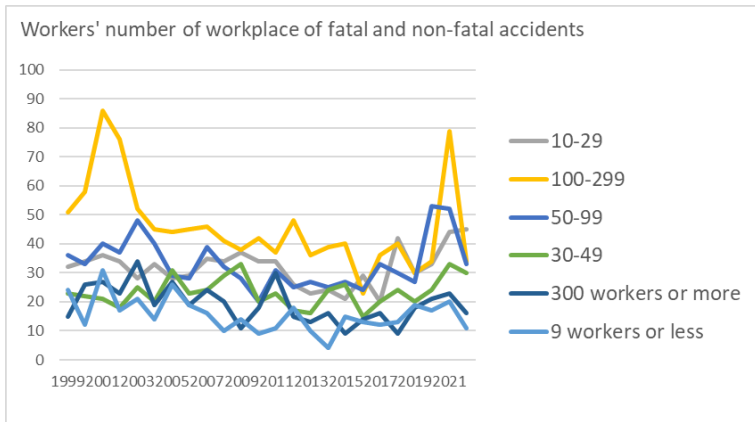
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 0116 electric/gas/water service in Japan (1999-2022)



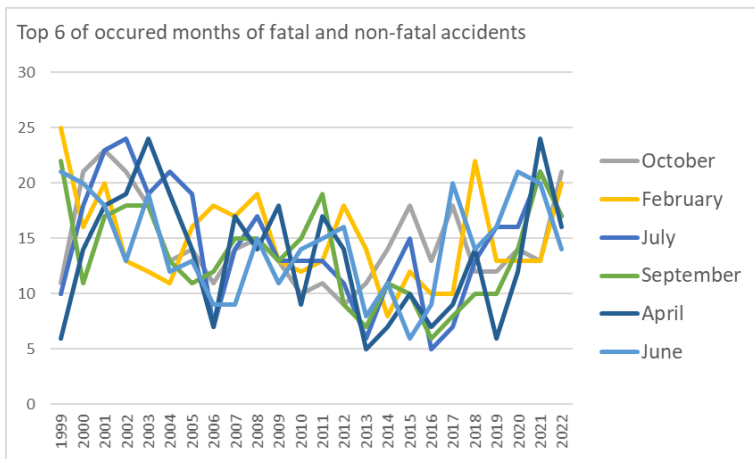
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 0116 electric/gas/water service in Japan (1999-2022)



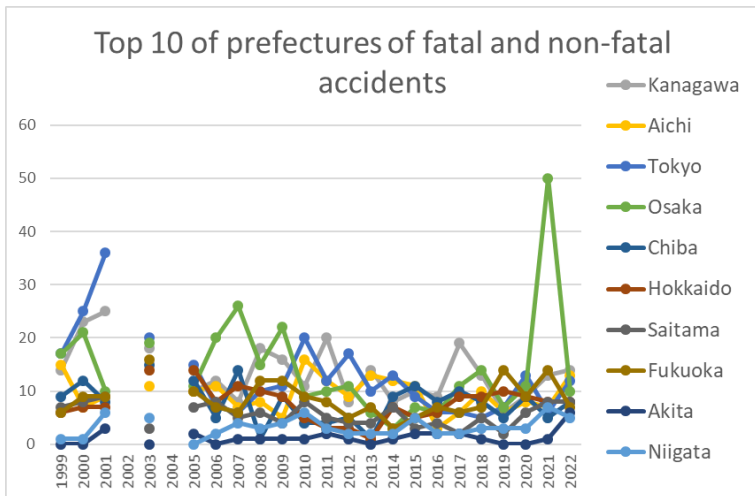
Transition of workers' age groups of fatal and non-fatal accidents in 0116 electric/gas/water service in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 0116 electric/gas/water service in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 0116 electric/gas/water service in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 0116 electric/gas/water service in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 0116 electric/gas/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	44	37	56	44	48	45	36	36	44	35	42	32	42	31	32	29	27	27	33	47	34	36	54	50	941	falling to same level
fall from height	29	30	37	37	40	29	45	23	34	32	34	22	27	35	29	23	40	22	30	28	32	40	39	39	776	fall from height

reaction to motion/improper motion	13	23	33	18	17	11	25	33	16	27	16	23	23	15	9	14	15	15	17	15	29	16	25	22	470	reaction to motion/improper motion
caught in/between	13	11	21	10	12	7	12	12	12	8	16	5	12	9	4	7	4	9	7	9	11	8	7	13	239	caught in/between
traffic accident (public road)	34	39	40	42	52	36	30	19	33	27	25	18	16	25	24	26	23	18	24	21	21	13	12	11	629	traffic accident (public road)
crash	13	11	8	11	12	8	8	6	7	12	7	7	6	5	7	7	11	4	3	10	3	10	9	10	195	crash
contact to high/low-temperature	4	3	5	7	5	5	1	5	7	6	6	7	3	2	3	5	1	5	3	3	3	6	8	6	109	contact to high/low-temperature
struck by flying or falling object	5	6	12	7	4	5	7	8	12	4	3	7	7	6	3	5	7	5	3	8	5	5	4	4	142	struck by flying or falling object
cut	5	4	4	6	2	6	4	5	4	3	6	2	6	8	4	5	3	1	1	4		3	3	4	93	cut
crashed by	5	5	8	3	4	2	4	1	5	3	1	6	3	1	3	6	2	3	6	2	4	5	8	3	93	crashed by
collapse	1	1	3	4	1	4		4		1		2	3	1	3	2		2	1	2	1	2	4	2	44	collapse
others	3	4	4	3		6	4	4	8	3	1	3	6	3	2	2		4	5	4		28	73	1	171	others
electric shock	4	4	2	3	2	1	6	1	1	3		2	1	6	1			1	1	3		3	1	1	47	electric shock
contact to harmful substance	2	4	1	7	1	2	1	3	1	1		3	1	2		1	3	1	1		1	4	1	1	42	contact to harmful substance
unclassifiable	1	1	3	2	1		1				1	1	1											1	13	unclassifiable
traffic accident (others)			1	1						1		2					1			2				1	9	traffic accident (others)
drown						2		2			1		6		1			1	1				1		15	drown

explosion	4	1			5	1							3												14	explosion	
injury to the sole of the foot	1	1			2						1	1							1					1	1	9	injury to the sole of the foot
fire			3			1	1	1			1							1						1		9	fire
burst																								1	1	2	burst
total	181	185	241	205	208	171	185	163	184	166	161	143	166	149	125	132	138	118	137	158	144	182	251	169	4,062	total	

Transition of Causal agents (Large) of fatal and non-fatal accidents in 0116 electric/gas/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	61	61	76	69	83	63	58	55	62	57	58	50	61	58	43	48	55	42	51	59	61	70	71	73	1,445	temporary buildings, establishments
other equipment	18	25	37	26	34	16	31	25	23	30	20	17	20	21	25	18	21	13	23	24	16	30	32	25	570	other equipment
crane, conveying machine	47	49	51	55	63	45	36	33	47	40	43	33	33	31	29	29	28	22	30	33	27	24	25	24	877	crane, conveying machine
environment	18	8	18	13	6	13	18	12	8	8	10	5	19	5	12	14	10	12	8	18	15	11	18	17	296	environment
others	15	17	24	13	10	14	16	12	13	10	8	16	12	11	7	8	6	11	15	9	10	30	87	14	388	others
machine	3	8	11	8	5	8	8	9	8	8	8	5	9	15	2	6	8	8	4	4	4	6	7	7	169	machine
load	8	7	11	7	3	3	4	6	9	7	9	9	4	4	2	4	4	6	3	8	7	4	4	6	139	load
substance, material	11	10	13	14	4	9	14	11	14	6	5	8	8	4	5	5	6	4	3	3	4	7	7	3	178	substance, material
total	181	185	241	205	208	171	185	163	184	166	161	143	166	149	125	132	138	118	137	158	144	182	251	169	4,062	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 0116 electric/gas/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	61	61	76	69	83	63	58	55	62	57	58	50	61	58	43	48	55	42	51	59	61	70	71	73	1,445	temporary buildings, establishments
natural environment	18	8	18	13	6	13	18	12	8	8	10	5	19	5	12	14	10	12	8	18	15	11	18	17	296	natural environment
vehicle	37	44	41	45	53	39	25	21	36	32	31	24	21	22	25	27	21	18	24	25	23	18	16	16	684	vehicle
tools	3	6	14	8	11	10	8	5	10	13	5	4	8	6	10	4	11	7	10	13	11	16	17	12	222	tools
no causal agent	8	7	17	9	7	8	9	9	5	8	5	13	10	9	5	6	6	8	9	6	8	3	12	8	195	no causal agent
conveying machine	8	5	9	10	9	6	11	9	9	8	11	8	11	8	4	2	7	4	6	7	3	3	8	8	174	conveying machine
other equipments, facilities	4	9	6	5	9		4	6	7	7	5	2	6	3	5	5	6	2	5	1	1	6	6	7	117	other equipments, facilities
load	8	7	11	7	3	3	4	6	9	7	9	9	4	4	2	4	4	6	3	8	7	4	4	6	139	load
other causal agent	6	10	4	3	2	4	7	3	7	2	2	3	2	2	2	2		2	6	2	2	27	74	5	179	other causal agent
human power machine, tools	6	4	6	7	4	3	10	5	1	3	6	3	3	6	7	7	3	2	6	5	3	1	4	4	109	human power machine, tools
construction machine	2		3		1	2	3	2	2	3	2	1	1	4			3		2		1	1	4	4	41	construction machine

working platform, boot board			4		4		5	7	3	3	5	4	4	2	2	1	4	2	4	4	1	3	3	6	71	working platform, boot board
other causal agent			4		2		7	3	7	2	2	3	2	2	2	2		2	6	2	2	27	74	5	156	other causal agent
truck			8		6		9	8	5	5	5	3	7	5	3		6	2	3	2	2	2	4	5	90	truck
other tools			1		2			2	3	3			5	1	2	1	1	2	2	2	7	8	5	5	52	other tools
conveyor			1		2		1		2	3	4	3	4	2	1	1	1	2	2	3	1		4	3	40	conveyor
hand tool			1		1		2	3	1	2	4	2	1	3	4	2	1		4	3		1	2	3	40	hand tool
standing tree			3		2		1		2		1		1	1	3	4	2			5		1		3	29	standing tree
roof, beam, haze, crossbeam, principal rafter					5				1			1		2				1		1	1	1	2	3	19	roof, beam, haze, crossbeam, principal rafter
transmission			3		1		2	2	1					3	2	1		1	1	3	1	5	1	2	29	transmission
vehicle for high lift work							2	1	1		1		1	3			3		2		1	1		2	18	vehicle for high lift work
human power hauling equipment			5		3		7	2		1	2	1	2	2	3	4	2	2	1	2	3		2	1	45	human power hauling equipment
metal material			5		3		2	1	5	3	2	3	2	3	2		2	1	1	1	3	2	1	1	43	metal material
natural ground, rock			3		2		3	4		2	2	1	1	1	4	2	2	2	2		4	3	3	1	42	natural ground, rock
other general power machines			2		2		3	3	2	3	1	1	3	4	1	1	2	3	1	2	3	2		1	40	other general power machines
other hazards, harmful substances					1				1	2	1	1	1						1			2	2	1	13	other hazards, harmful substances
stone, sand, substance							4	2	2	1	1		1			1								1	13	stone, sand, substance

chain saw			1							1			1		1			1	1		2	1	1	10	chain saw	
unclassifiable			3		1				1		1						1		1			1	1	10	unclassifiable	
slinging tool					1				1	2													1	5	slinging tool	
demolition machine										1													1	3	demolition machine	
other construction machines			1																				1	3	other construction machines	
roll machine (except printingroll machine)																	1						1	3	roll machine (except printingroll machine)	
electric power facilities			4		6		5	1	2	4	1	6	3	2			1						1	1	37	electric power facilities
opening			2		2		4		2	2	2		1	3	3	1	1	2	3		2	3	1	34	opening	
inflammable gas			4				1	2	5			1	3	1		2		1	1		1	2	1	25	inflammable gas	
other materials			1				5	3			1	1			2	1	1	1		1			2	19	other materials	
power transmission mechanism			2					1		1	1		3		1	3	2	2					1	17	power transmission mechanism	
other vehicles			1					1	1	2	1		1	1	2	1		1		1	1	2	1	17	other vehicles	
other pressure vessels					1		1	2	2		2	1		1		1		1		1		1	3	17	other pressure vessels	
water								2			2		10		1									15	water	
scaffolding			1		1		1	2	2			2	1	1	1								2	14	scaffolding	
machine/equipment as load			3					1	1	1	3	1		1						1	1		1	14	machine/equipment as load	
harmful substance			1				1	3				2				1	2	1				1		12	harmful substance	

Transition of workers' age groups of fatal and non-fatal accidents in 0116 electric/gas/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
50-59	59	68	76	64	78	49	58	57	58	50	45	36	56	46	33	40	31	42	39	50	39	61	70	54	1,259	50-59
60 years old or more	12	14	21	14	16	16	15	19	18	24	29	26	27	26	17	21	32	16	26	29	25	38	44	39	564	60 years old or more
40-49	41	39	41	56	45	40	43	37	34	40	36	35	34	35	33	31	43	33	39	37	39	45	71	36	963	40-49
20-29	30	33	53	29	29	25	26	19	24	19	16	18	18	15	16	21	16	16	17	21	22	19	31	26	559	20-29
30-39	36	28	47	40	38	40	43	31	49	32	34	27	27	26	26	18	14	10	15	19	19	17	33	13	682	30-39
19 years old or less	3	3	3	2	2	1			1	1	1	1	4	1		1	2	1	1	2		2	2	1	35	19 years old or less
total	181	185	241	205	208	171	185	163	184	166	161	143	166	149	125	132	138	118	137	158	144	182	251	169	4,062	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 0116 electric/gas/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
10-29	32	34	36	34	28	33	28	29	35	34	37	34	34	26	23	24	21	29	20	42	30	33	44	45	765	10-29
100-299	51	58	86	76	52	45	44	45	46	41	38	42	37	48	36	39	40	23	36	40	30	34	79	34	1,100	100-299
50-99	36	33	40	37	48	40	29	28	39	32	28	20	31	25	27	25	27	24	33	30	27	53	52	33	797	50-99
30-49	23	22	21	18	25	20	31	23	24	29	33	20	23	17	16	24	26	15	20	24	20	24	33	30	561	30-49
300 workers or more	15	26	27	23	34	19	27	19	24	20	11	18	30	15	13	16	9	14	16	9	18	21	23	16	463	300 workers or more
9 workers or less	24	12	31	17	21	14	26	19	16	10	14	9	11	18	10	4	15	13	12	13	19	17	20	11	376	9 workers or less
total	181	185	241	205	208	171	185	163	184	166	161	143	166	149	125	132	138	118	137	158	144	182	251	169	4,062	total

Transition of occurred months of fatal and non-fatal accidents in 0116 electric/gas/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
October	11	21	23	21	18	13	14	11	14	15	13	10	11	9	11	14	18	13	18	12	12	14	13	21	350	October
February	25	16	20	13	12	11	16	18	17	19	13	12	13	18	14	8	12	10	10	22	13	13	13	20	358	February
July	10	18	23	24	19	21	19	7	14	17	13	13	13	11	6	11	15	5	7	13	16	16	21	17	349	July
September	22	11	17	18	18	13	11	12	15	15	13	15	19	9	7	11	10	6	8	10	10	14	21	17	322	September
April	6	14	18	19	24	19	14	7	17	14	18	9	17	14	5	7	10	7	9	14	6	12	24	16	320	April
June	21	20	18	13	19	12	13	9	9	15	11	14	15	16	8	11	6	9	20	14	16	21	20	14	344	June
August	19	10	18	14	15	17	19	15	17	11	15	9	9	6	9	10	18	17	10	12	14	13	47	13	357	August
January	15	11	22	11	21	12	24	17	11	9	16	15	11	14	20	9	20	10	13	14	13	12	20	12	352	January
December	13	19	15	12	13	13	20	18	14	13	11	11	10	8	13	17	7	10	14	13	9	36	20	12	341	December
March	18	14	30	17	18	14	16	17	17	12	15	9	24	13	6	16	9	7	10	11	12	9	19	10	343	March
May	13	13	19	18	20	12	14	20	20	20	9	13	14	9	15	8	9	7	9	9	10	16	17	9	323	May
November	8	18	18	25	11	14	5	12	19	6	14	13	10	22	11	10	4	17	9	14	13	6	16	8	303	November
total	181	185	241	205	208	171	185	163	184	166	161	143	166	149	125	132	138	118	137	158	144	182	251	169	4,062	total

Transition of prefectures of fatal and non-fatal accidents in 0116 electric/gas/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
Kanagawa	14	23	25		18		10	12	8	18	16	11	20	8	14	8	10	9	19	13	6	9	13	14	298	Kanagawa
Aichi	15	7	9		11		10	11	7	8	5	16	12	9	13	12	11	3	6	10	6	8	7	13	209	Aichi
Tokyo	17	25	36		20		15	7	6	10	11	20	12	17	10	13	9	6	6	5	7	13	6	12	283	Tokyo
Osaka	17	21	10		19		11	20	26	15	22	9	10	11	6	3	7	6	11	14	7	11	50	10	316	Osaka
Chiba	9	12	8		15		12	5	14	1	9	4	4	5	1	9	11	8	10	8	5	9	5	8	172	Chiba
Hokkaido	6	7	7		14		14	8	11	10	9	5	3	3	1	7	5	6	9	9	10	9	8	8	169	Hokkaido
Saitama	7	8	9		3		7	8	5	6	4	8	5	4	4	7	3	4	2	5	2	6	8	8	123	Saitama

Fukuoka	6	9	9		16		10	7	6	12	12	9	8	5	7	3	5	7	6	7	14	9	14	7	188	Fukuoka
Akita			3				2		1	1	1	1	2	1		1	2	2	2	1			1	6	27	Akita
Niigata	1	1	6		5			2	4	3	4	6	3	2	2	2	5	2	2	3	3	3	7	5	71	Niigata
Nagano	1		3		1		1	5	6	1	1		1	5	2	2	3		3	4	3	3	4	5	54	Nagano
Gunma	1	1	5		1		1	3	4	1	3	2	4	3	2	1	2	2	2	1		1	1	5	46	Gunma
Kagoshima	1	2	8		1		4	5	5	2	2	5	2	2	3	3	5	2	2	3	4	1	6	4	72	Kagoshima
Nagasaki	1	3	5		3		3	4	4	4	2		2		1	2			1	2	4	1	4	4	50	Nagasaki
Oita		1	2		2		2	1				5	5	4		1	4			3	3	2	1	4	40	Oita
Hiroshima	2	5	5		6		11	7	7	3	2	5	5	5	6	4	1	3	7	6	5	35	6	3	139	Hiroshima
Fukushima	1	1	8		7		4	7	4	5	3	2	10	8	3	6	7	6	4	1	4	2	11	3	107	Fukushima
Miyagi	2	3	3		2		7	5	8	8	2		10	7	1	6	4	2	4	5	6	7	9	3	104	Miyagi
Kumamoto	8	1	4				3		3	1	2	1	4	1	1	2		3	2	2		4	10	3	55	Kumamoto
Tochigi	1	1	3		2		1			1	1		4	1	3	2			2		1	1	5	3	32	Tochigi
Ehime	3	1	1		1		1			3	2	1		3	1		2	3	2	1			3	3	31	Ehime
Iwate			3		2			4	2		2	2	2	2				2	1	3	1		1	3	30	Iwate
Okinawa	3	1	2		1		2	1	5	2			1				1		3	1		2	3		28	Okinawa
Kochi	2	1	1		2		4		1	1				2	1	1	2	2		1	2		1	3	27	Kochi
Hyogo	12	6	12		9		9	13	13	10	12	4	7	4	7	2	5	3	9	9	11	9	18	2	186	Hyogo
Shizuoka	8	6	10		5		4	2	7	9	6	1	3	3	1	2	6	6	4	6	2	5	3	2	101	Shizuoka
Kyoto	5	4	6		5		3	2	2	2	3	1	3	6	2	6	5	4		2	2	4	3	2	72	Kyoto
Toyama	3	3	6		2		2	3		3	1	4		3	3	4	1	2		2	2	3	8	2	57	Toyama
Mie	2	2	1		7		1	3	2	2	3	3	1	3	3	2	3	3	4	2	1	3		2	53	Mie
Gifu	3	5	3		5		1			4	2	1		2	2	1		2	1	3	7	3	3	2	50	Gifu

Yamaguchi		3	1		4		4	2		2	1	4	4	2	1	2	1	3	1	1	2	2	4	2	46	Yamaguchi	
Kagawa		2	3				2	3	2	3	1	2	2	3	4	2	4		3	1	2	1	1	2	43	Kagawa	
Tottori		2	1		1			1	1				1			1	1		1				1	2	13	Tottori	
Ibaraki	3	2	2		3			1	5	3	2	1	4	4	3	2	1	1	1	3	2	2	2	2	1	48	Ibaraki
Nara	2	1	2				1	1	1	1	6	1	1	2	1	3	4	2	2	2	2	1	3	1	40	Nara	
Aomori	3	2			1		2	1	3				1	1	4	3	1	1	1	3	4	2	3	1	37	Aomori	
Miyazaki	5	1	6				5	1		1					1		3	3	1	2	1	2	4	1	37	Miyazaki	
Okayama	1		2		4				4	5		2		1	1	1	1	1	2	3	1	1	3	1	34	Okayama	
Yamagata	6	3	2		1		2	1		1	1	1	2	1	1		1		1	2		2	1	1	30	Yamagata	
Ishikawa	4	2	2					1	2		2			2						3	3	2	4	1	28	Ishikawa	
Wakayama		1			2		3		1	3	1	1	2	2	2	1		1			2	1	2	1	26	Wakayama	
Saga	1	1	2		1		2		2		1	1	1	1	5	1	1		2		1	1	1	1	26	Saga	
Shiga	3	3			2		4	2	1			1	1		1			1			2	1	2	1	25	Shiga	
Shimane			1					2				2	1		1		1	1				1		1	11	Shimane	
Fukui	2	1	3		1		2	1			3		3	1		4		3		3	1				28	Fukui	
Yamanashi			1		3		1	1	1		1								1	1	1		1		12	Yamanashi	
Tokushima		1					2			1		1					1	2			1	2	1		12	Tokushima	
total	181	185	241	205	208	171	185	163	184	166	161	143	166	149	125	132	138	118	137	158	144	182	251	169	4,062	total	

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