Fatal and non-fatal accidents in city water service in Japan in 1999-2022

city water service industry Code No.011603

Type of accidents in city water service in 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
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
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
crash	2	3	3	2	2	1	1	2	2	7	3	2	1	3	3	2	2			1	1	3	3	4	53
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
collapse	1			1	1	1		2				1			1			1			1	1	1	1	13
crashed by	1	1	3			1	1		3	1	1	1			1	1	1		2		1	2	5	2	28
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
cut	1	1		2		3	1	3			3		4	4	1	1	1	1		3		2	2	1	34
injury to the sole of the foot		1			1						1	1													4
drown						2		1			1		4					1	1				1		11
contact to high/low-									3	1	1	2						1		1			4	1	14

temperature																									
contact to harmful substance	1	1		2	1	2		2	1	1						1	2	1				2			17
electric shock	1	2		1						2		1										1			8
explosion																									
burst																							1		1
fire								1																	1
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 (others)												1					1								2
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
others		1	2			1	2		1	2			2	1		1			1			2	2		18
unclassifiable				1							1		1											1	4
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

Causal agents (large) of fatal and non-fatal accidents in city water service in 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
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

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
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
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
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
load	1	3	2	1			1	1	2	1	3	1		1		2	1		2	1			1		24
environment	5		3	4	2	4	4	2	3	2	5	2	6	3		4	1	2		3	1	2	4	3	65
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
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

Causal agents (middle) of fatal and non-fatal accidents in city water service in 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
engine												1													1
power transmission mechanism						1		1			1		3		1	1	2						1		11
woodworking machine				1		2		1			1		1	1		1				1		1	1		11

construction machine			1						1	1				1									1	1	6
metal manufacturing machine							1		1					2			1			1					6
general machine	1	3	1	4	1	1	2	2	2	1			2	1	1			1	1		3	3		1	31
mobile silviculture machine																									
crane			1					3	1			1									1	1	1		9
conveying machine	1		1	3	1		2	2	2	1	5	6	2	3	1		5	2	1				2	3	43
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
pressure vessel					1																				1
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment		2	2	1						2		1				1						1			10
human power machine, tools	1	1	2	3		1	3	2		1	3	2	2		2	4		1	3	2	1		3	2	39
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
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
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
hazards, harmful substances	1	1			1	2		3	3	2						1	2	1				1	1		19
materials	1	2	3		2		5	5	2	2	2	4	2	2	2	1	2	1		1	2		1	1	43
load	1	3	2	1			1	1	2	1	3	1		1		2	1		2	1			1		24
natural environment	5		3	4	2	4	4	2	3	2	5	2	6	3		4	1	2		3	1	2	4	3	65
other causal agent		2	1		1	1	2	1	1	1		1		1					2			2	2	3	21
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
unclassifiable			1			1					1									1				1	5
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

Causal agents (small) of fatal and non-fatal accidents in city water service in 1999-2022

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	2022	total
engine												1													1
power transmission mechanism								1			1		3		1	1	2						1		10

circular sawing machine											1		1												2
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw														1						1		1			3
other woodworking machines								1								1							1		3
leveling, transporting or loading machine																									
excavating machine			1						1	1													1		4
foundation work machine																									
hardening machine																									

demolition machine														1											1
vehicle for high lift work																									
other construction machines																								1	1
lathe																									
drill press, milling machine																									
grinding machine, buffing machine														1			1								2
power press							1																		1
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines									1					1						1					3
centrifugal machine																									
mixer, grinder								1																	1
roll machine (except printingroll machine)																						1			1

injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines			1		1		2	1	2	1			2	1	1			1	1		3	2		1	20
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane			1						1																2
mobile crane												1									1	1			3
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane								3															1		4
truck			1		1		1	2	1		1	3	2	2	1		5	1						1	22
forklift											2								1						3
railway equipment																									
conveyor									1	1	2	2						1					2	2	11
loader												1													1
straddle carrier																									
rough terrain hauler																									
other powered conveying machines							1							1											2
cars, bus, motorcycle			11		10		4	9	7	12	17	9	10	6	9	8	7	4	8	6	9	6	4	8	164
railway vehicle																									
other vehicles														1						1					2
boiler					1																				1

pressure vessel																									
other pressure vessels																									
chemical facilities																									
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									
transmission																1						1			2
electric power facilities										2		1													3
other electrical equipment			2																						2
human power cranes																									
human power hauling equipment			1				1	1		1			1			2		1	1		1		1	1	12

human power machine																1									1
hand tool			1				2	1			3	2	1		2	1			2	2			2	1	20
ladder			3		2		1	1	3	5	4	1	2	1	2	2	2	3	2	2	1	4	5	1	47
slinging tool									1																1
other tools					2								1		1	1		1		1	3	3	2	4	19
other equipment, facilities					2		1	2	1	1	1	1	1	1	1	2	2	2	1	1	1	5	3	6	35
scaffolding					1		1																1		3
timbering																									
stairs, landing stage			3		2		5	2	5	5	5	7	9	12	1	4	4	5	6	4	2	9	5	4	99
opening			1				2		1	2	2			1	1	1	1	2	3		2	2			21
roof, beam, haze, crossbeam, principal rafter					1								1	1									1		4
working platform, boot board					2		1	3		2	2	2	2			1	3	2		1		1	2	2	26
passage			6		7		3	5	7	6	2	3	6	8	2	8	6	4	7	13	11	5	6	9	124
building, establishment			7		6		3	4	6	6	9	7	5	1	8	3	2	2	3	2	2		3	7	86
other temporary buildings,			6		1		2	1	2	1	3		2	5	2	3	1	1	4	3	2	6	7	4	56

establishments																									
explosive substance																									
inflammable substance																									
inflammable gas								1	3																4
harmful substance								2								1	2	1							6
radiation																									
other hazards, harmful substances					1					2												1	1		5
metal material			2		2		1	1	1	2	1	3	1	2	1		2	1		1	2			1	24
lumber, bamboo																									
stone, sand, substance							3	1	1		1		1			1									8
other materials			1				1	3				1			1								1		8
load			2				1	1	2	1	2	1		1		2	1		2	1			1		18
machine/equipment as load											1														1
natural ground, rock					1		1				1	1					1							1	6
standing tree			1				1		1					1		1									5
water								1			2		6												9
abnormal																									

environment																						1			1
high/cold temperature environment			1						1			1						1		1			3	2	10
other environments			1		1		2	1	1	2	2			2		3		1		2	1	1	1		21
other causal agent			1		1		2	1	1	1		1		1					2			2	2	3	18
no causal agent			4		2		3	1				3	3	5	2	1	1	2	4	1	1	1	2	5	41
unclassifiable			1								1									1				1	4
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

Workers age of fatal and non-fatal accidents in city water service in 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
19 years old or less			1	1	1											1	1			1					6
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
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
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
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
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
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

Workers' number of workplace of fatal and non-fatal accidents in city water service in 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
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
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
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
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
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
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
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

Month of fatal and non-fatal accidents in city water service in 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
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
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
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
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
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
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

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
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
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
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
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
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
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

Prefecture of fatal and non-fatal accidents in city water service in 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
Hokkaido	1	2	2		2		4	2	3	4	3	1		1		4	1	3	2	3	3	1	1	2	45
Aomori		1														2			1	1	2			1	8
Iwate			1		1			4	1		1	1	2					2						1	14
Miyagi	1	2	2				1	1	2	3	1		6	4		1			1			2			27
Akita			1										1	1			1							1	5
Yamagata	1	1	1				2					1								1			1		8
Fukushima							1	2	1		3					1	1			1			1		11
Ibaraki	1				1				1		1			3			1			1		1	1		11
Tochigi	1	1											2										1		5
Gunma			2						1				1						1					2	7

Saitama	1	2	2		1		2	4		1	1			2	1	3	1	1		3	1	1	2	5	34
Chiba	2		1		1				1		2	2		2		1	1	2	3	3		2		4	27
Tokyo	2	2	5		3		3	4	2	6	6	5	4	7	4	5	3	3	2	3	4	4	4	5	86
Kanagawa	5	11	7		12		8	9	5	10	12	9	15	7	7	7	7	7	11	4	3	6	9	5	176
Niigata			4		2			1	1	1	1	3	1	2		1	2	1		2			1	1	24
Toyama	1									1		1		2	1		1			1	1	1	3	2	15
Ishikawa			1											2								1			4
Fukui		1																							1
Yamanashi					1						1												1		3
Nagano					1												2			1	1		1		6
Gifu			1		1																2	1			5
Shizuoka	1	1								3	1											1			7
Aichi	3	2			1			1			2	5	7	3	2	4	3		1	1	4	5	4	5	53
Mie	1								1						2			1						1	6
Shiga	3	1			1				1														1	1	8
Kyoto		2	5						1	1	3		1	6	1	6	2	3		2		2			35
Osaka	7	7	5		7		7	11	15	8	12	6	4	4	3	3	3	4	3	5	2	8	7	10	141
Hyogo	2	4	7		1		1	7	6	7	9	4	6	3	3	1	2	1	6	7	6	4	4	2	93
Nara											2	1					2	1			2		1	1	10
Wakayama							2			2		1	1											1	7
Tottori																								1	1

Shimane												1	1		1							1		1	5
Okayama	1		1		1							2		1	1			1	1		1			1	11
Hiroshima		1	2		3		5		1			1	3	1	3	1			5	1	3	6	1	2	39
Yamaguchi		2	1		2										1	2	1	2	1			1	2	1	16
Tokushima							2																1		3
Kagawa		1	2				1	2	2	2		1	1	2	1	2	4		2	1	2	1	1	1	29
Ehime		1									1			1			1	2	2	1			1	1	11
Kochi	1						1			1				1	1										5
Fukuoka	1	3	2		2			1		2	4	5	1	1	2	2	1		1		1	2	3	3	37
Saga														1	1				1				1		4
Nagasaki					2		1		2	1						1				1	1		1	1	11
Kumamoto		1	2				2		3			1	2		1	1		1	2			2	1		19
Oita					1							1	1				1							1	5
Miyazaki	2		1														1		1						5
Kagoshima			1				2	2								1	1	1			2		2	1	13
Okinawa							1		1	1										2	1		2	1	9
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

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html (MHLW, Japan)

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html

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Fatal accidents in city water service in Japan in 1999-2022

city water service industry Code No.011603

Type of fatal accidents in city water service in 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
fall from height			1		1		2		1							1	1		1			2			10
falling to same level																		1							1
crash																									
struck by flying or falling object																									
collapse																									
crashed by																									
caught in/between									1																1
cut																									
injury to the sole of the foot																									

drown						1		1	1		1		4					1	1				1		11
contact to high/low-temperature																									
contact to harmful substance						2											1								3
electric shock		1								1															2
explosion																									
burst																									
fire																									
traffic accident (public road)																									
traffic accident (others)																									
reaction to motion/improper motion																									
others													1			1									2
unclassifiable			1																						1
total		1	2		1	3	2	1	3	1	1		5			2	2	2	2			2	1		31

Causal agents (large) of fatal accidents in city water service in 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
machine																									
crane, conveying machine									1																1
other equipment		1								1												1	1		4
temporary buildings, establishments			1		1		2		1							1	1	1	2			1			11
substance, material						2											1								3
load																									
environment						1		1	1		1		5			1		1							11
others			1																						1
total		1	2		1	3	2	1	3	1	1		5			2	2	2	2			2	1		31

Causal agents (middle) of fatal accidents in city water service in 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
engine																									
power transmission mechanism																									

woodworking machine																									
construction machine																									
metal manufacturing machine																									
general machine																									
mobile silviculture machine																									
crane																									
conveying machine									1																1
vehicle																									
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment		1								1															2
human power machine, tools																									
tools																						1			1
other equipments,																									

facilities																							1		1
temporary buildings, establishments			1		1		2		1							1	1	1	2			1			11
hazards, harmful substances						2											1								3
materials																									
load																									
natural environment						1		1	1		1		5			1		1							11
other causal agent																									
no causal agent																									
unclassifiable			1																						1
total		1	2		1	3	2	1	3	1	1		5			2	2	2	2			2	1		31

Causal agents (small) of fatal accidents in city water service in 1999-2022

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	2022	total
engine																									
power transmission mechanism																									

circular sawing machine																									
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines																									
leveling, transporting or loading machine																									
excavating machine																									
foundation work machine																									
hardening machine																									

demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe																									
drill press, milling machine																									
grinding machine, buffing machine																									
power press																									
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines																									
centrifugal machine																									
mixer, grinder																									
roll machine (except printingroll machine)																									

injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines																									
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane																									
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck																									
forklift																									
railway equipment																									
conveyor									1																1
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle																									
railway vehicle																									
other vehicles																									
boiler																									

pressure vessel																									
other pressure vessels																									
chemical facilities																									
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									
transmission																									
electric power facilities										1															1
other electrical equipment		1																							1
human power cranes																									
human power hauling equipment																									

human power machine																									
hand tool																									
ladder																						1			1
slinging tool																									
other tools																									
other equipment, facilities																							1		1
scaffolding																									
timbering																									
stairs, landing stage																						1			1
opening							2										1		1						4
roof, beam, haze, crossbeam, principal rafter																									
working platform, boot board																									
passage																									
building, establishment			1		1				1							1		1	1						6
other temporary buildings,																									

establishments																									
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance						2											1								3
radiation																									
other hazards, harmful substances																									
metal material																									
lumber, bamboo																									
stone, sand, substance																									
other materials																									
load																									
machine/equipment as load																									
natural ground, rock																									
standing tree																									
water						1		1	1		1		5												9
abnormal																									

environment																									
high/cold temperature environment																									
other environments																1		1							2
other causal agent																									
no causal agent																									
unclassifiable			1																						1
total		1	2		1	3	2	1	3	1	1		5			2	2	2	2			2	1		31

Workers age of fatal accidents in city water service in 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
19 years old or less																									
20-29													1			1									2
30-39						2	1		1	1			1												6
40-49					1												1								2
50-59		1	2			1	1		1		1		1			1	1	2					1		13
60 years old or more								1	1				2						2			2			8
total		1	2		1	3	2	1	3	1	1		5			2	2	2	2			2	1		31

Workers' number of workplace of fatal accidents in city water service in 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
9 workers or less																1		1					1		3
10-29			1			1	2	1	1		1		2				1		2						12
30-49			1										2			1		1							5
50-99					1	2			2								1								6
100-299										1			1									1			3
300 workers or more		1																				1			2
total		1	2		1	3	2	1	3	1	1		5			2	2	2	2			2	1		31

Month of fatal accidents in city water service in 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
January											1											1			2
February						1			1										1						3
March								1					3				1								5
April							1									1	1								3
May					1																				1
June										1															1

July																									
August						2										1							1		4
September									1				2					1							4
October							1															1			2
November		1	2															1							4
December									1										1						2
total		1	2		1	3	2	1	3	1	1		5			2	2	2	2			2	1		31

Prefecture of fatal accidents in city water service in 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
Hokkaido						1												1							2
Aomori																									
Iwate								1					1												2
Miyagi													4												4
Akita																	1								1
Yamagata																									
Fukushima																									
Ibaraki																									
Tochigi																									
Gunma																									

Saitama							1																		1
Chiba									1							1									2
Tokyo										1							1								2
Kanagawa																									
Niigata																									
Toyama																						1			1
Ishikawa																									
Fukui																									
Yamanashi																									
Nagano																									
Gifu																									
Shizuoka																									
Aichi																							1		1
Mie									1																1
Shiga																									
Kyoto																									
Osaka		1	1		1	2													1						6
Hyogo			1																						1
Nara											1														1
Wakayama																									
Tottori																									

Shimane																									
Okayama																									
Hiroshima							1															1			2
Yamaguchi																		1	1						2
Tokushima																									
Kagawa																									
Ehime																									
Kochi																									
Fukuoka																									
Saga																									
Nagasaki																									
Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima																1									1
Okinawa									1																1
total		1	2		1	3	2	1	3	1	1		5			2	2	2	2			2	1		31

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html (MHLW, Japan)

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html