

Fatal and non-fatal accidents in bathhouse in Japan in 1999-2021

bathhouse industry Code No.130301

Type of accidents in bathhouse in 1999-2021

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
fall from height	12	15	11	13	15	21	12	22	18	19	21	20	22	16	17	18	21	13	25	32	13	23	20	419	fall from height
falling to same level	23	19	22	28	34	36	33	40	55	38	47	44	42	43	37	38	39	49	65	63	42	53	43	933	falling to same level
crash	2	3	5		6	3	7	5	8	4	8	7	5	8	5	5	7	5	8	7	10	11	3	132	crash
struck by flying or falling object	2	2	2	3	1	1	9	3	3	2	1	5	2	5	2	3	1	2	2	2	4	6	4	67	struck by flying or falling object
collapse			1		1			2		1	1				1	1	2	1	2	1	2			16	collapse
crashed by		2	2		2	2		5	2		1	2		2	1	2		3	3	1	2	3	2	37	crashed by
caught in/between	1	1	3	7	4	9	4	4	6	5	4	6	3	5	5	3	4	5	7	9		1	6	102	caught in/between
cut	7	5	4	7	2	9	8	10	11	7	14	5	3	7	12	9	11	7	9	8	9	4	5	173	cut
injury to the sole of the foot	1													1	1					1	1	1		6	injury to the sole of the foot
drown							1						1											2	drown
contact to high/low-temperature	6	2	4	6	6	5	7	4	9	5	5	4	2	4	9	4	4	3	5	4	7	1	1	107	contact to high/low-temperature





















facilities			3		1		8	9	8	4	3	3	8	11	7	6	5	10	8	7	9	10	7	127	facilities
scaffolding					1									1		1								3	scaffolding
timbering																	1							1	timbering
stairs, landing stage			5		10		5	7	11	10	12	5	8	5	5	9	5	5	11	6	11	7	8	145	stairs, landing stage
opening														1						1	1	1	3	7	opening
roof, beam, haze, crossbeam, principal rafter											1	2	2	1		1			1	1	1	1		11	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			5		5		5	9	11	9	8	10	11	6	3	13	10	10	9	14	6	13	9	166	working platform, boot board
passage			9		15		17	20	24	20	25	17	25	19	22	13	20	26	38	25	22	21	21	399	passage
building, establishment			4		8		5	10	9	6	9	8	4	5	7	4	5	3	7	6	4	6	4	114	building, establishment
other temporary buildings, establishments			4		3		6	2	6	2	5	7	2	6	3	5	4	3	9	15	8	13	6	109	other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance																									inflammable substance
inflammable gas			1				1		5														1	8	inflammable gas
harmful substance														2	1			2	3	1	1			10	harmful substance
radiation										1														1	radiation
other hazards, harmful substances					1		1	2	2	2					1	1			1					11	other hazards, harmful substances

metal material			1					1	1		1			2				1	1			1	9	metal material	
lumber, bamboo						1												1	1		1		4	lumber, bamboo	
stone, sand, substance					1				1												1		3	stone, sand, substance	
other materials			1		2		4	2	7	1	2	1	2	3	3	4	1	3	2	3	3	2	1	47	other materials
load			2		3		5	4	3	2	2	4	4	1	1	3	1	4	4	11	5	1	4	64	load
machine/equipment as load							1		1														2	machine/equipment as load	
natural ground, rock							1	1						1	1		1		2		1	1	1	10	natural ground, rock
standing tree									1		1					1					1			4	standing tree
water			1				1			1						1		1	1					7	water
abnormal environment												1	1							1				3	abnormal environment
high/cold temperature environment					1						1	1			3					1	1			8	high/cold temperature environment
other environments			3		4		3	3	1	1		3	6	3	2	1	3	5	7	8	6	1	5	65	other environments
other causal agent					4		2	5	2	4	3	3	2	1	2	5	4	4	1	2	2	3	4	53	other causal agent
no causal agent			5		5		3	9	6	1	3	6	7	3	3	3	9		10	4	8	6	6	97	no causal agent
unclassifiable					1					1										1				3	unclassifiable
total			64		80		88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118	98	1,973	total

Workers age of fatal and non-fatal accidents in bathhouse in 1999-2021

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
19 years old or less	1	2	5	2	1	2		1	6	2	3	3		1	3	3	1			3	2		2	43	19 years old or less
20-29	5	5	10	6	7	7	15	9	18	8	10	7	7	11	13	3	5	7	8	10	11	9	3	194	20-29
30-39	3	5	4	6	13	9	16	22	14	14	10	11	6	14	7	13	5	6	10	13	7	10	4	222	30-39
40-49	6	7	8	13	11	7	10	11	19	15	9	12	12	9	18	11	19	21	19	14	13	15	13	292	40-49
50-59	23	23	16	35	27	22	28	38	48	24	33	27	23	26	22	28	25	27	45	28	22	34	21	645	50-59
60 years old or more	20	16	21	11	21	46	19	30	24	29	48	41	47	35	38	36	46	34	66	73	53	50	55	859	60 years old or more
total	58	58	64	73	80	93	88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118	98	2,255	total

Workers' number of workplace of fatal and non-fatal accidents in bathhouse in 1999-2021

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
9 workers or less	15	6	9	15	10	15	11	17	10	8	18	13	9	8	11	13	11	8	15	15	11	15	12	275	9 workers or less
10-29	17	14	20	15	29	27	24	24	39	25	27	36	31	29	27	27	26	26	36	31	25	30	31	616	10-29
30-49	8	13	18	21	16	18	17	30	27	24	29	19	27	24	21	19	23	24	26	43	24	27	27	525	30-49
50-99	8	14	8	14	10	21	19	24	25	20	29	23	18	24	27	17	26	13	39	30	26	30	20	485	50-99
100-299	7	11	9	7	13	12	13	15	19	13	9	10	10	10	13	18	15	23	28	20	21	12	7	315	100-299
300 workers or more	3			1	2		4	1	9	2	1			1	2			1	4	2	1	4	1	39	300 workers or more
total	58	58	64	73	80	93	88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118	98	2,255	total

Month of fatal and non-fatal accidents in bathhouse in 1999-2021

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
January	4	7	8	11	9	8	6	11	15	6	16	9	13	13	15	5	13	12	16	15	14	12	10	248	January
February	8	8	2	7	8	5	4	10	13	7	11	10	7	7	6	11	10	8	11	14	12	9	11	199	February
March	4	5	4	4	10	10	4	13	12	8	12	8	9	7	6	7	5	7	13	17	9	5	9	188	March
April	4	1	4	2	10	10	6	8	6	9	8	12	5	15	8	9	7	7	8	6	3	5	8	161	April
May	2	2	7	10	6	4	8	12	15	15	16	11	13	4	7	7	5	4	10	9	9	8	3	187	May
June	6	4	7	3	7	8	15	13	14	8	7	10	9	7	7	10	11	8	15	11	10	11	7	208	June
July	6	6	4	8	1	14	7	13	11	7	11	9	8	10	10	8	10	8	10	14	8	12	10	205	July
August	5	2	7	4	10	9	8	8	9	5	4	9	10	5	10	8	10	5	7	17	13	10	6	181	August
September	2	5	7	5	5	6	6	3	8	6	8	5	1	6	5	9	7	6	16	8	11	6	11	152	September
October	7	8	4	7	5	6	6	8	10	3	8	6	3	7	11	7	7	12	15	10	11	10	6	177	October
November	4	4	7	5	5	6	9	9	7	10	5	7	12	9	11	10	10	9	15	9	3	13	8	187	November
December	6	6	3	7	4	7	9	3	9	8	7	5	5	6	5	3	6	9	12	11	5	17	9	162	December
total	58	58	64	73	80	93	88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118	98	2,255	total

Prefecture of fatal and non-fatal accidents in bathhouse in 1999-2021

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
Hokkaido	2	7	3		3		7	6	9	8	8	7	6	6	11	13	11	10	14	14	11	14	9	179	Hokkaido
Aomori	1	2	3		5		7		5	2	1	3	4	9	1	1	2	5	3	4	4	1	6	69	Aomori
Iwate					1		1	1	2	2	1	1	2	1					1	1			1	15	Iwate

Miyagi					1					1			1	1	1	2	1	1		1	1		1	2	14	Miyagi
Akita		1	1		1		2		4	3	4	1	1	1	2	1			1			2	1	26	Akita	
Yamagata	1	2						1				1	2	1		1				1	2	1		13	Yamagata	
Fukushima			1					2	2	1	1			1	2	1			1	3	1			16	Fukushima	
Ibaraki			1		2		1	1	3	2	1	1	1	2	1	4				2	1	2		25	Ibaraki	
Tochigi	2		1		3		1	1	3	2	3		1	3	2				4	4		2		32	Tochigi	
Gunma	1	2			2		1	3	4	2	5	4		4	3		6	4	2	1	6	2	2	54	Gunma	
Saitama	1		2		1		2	4	9	4	10	6	2	5	4	2	4	4	11	5	5	8	8	97	Saitama	
Chiba	1	1					1	4	5	4	2		1	4		3	5	2	7	5	8	4	6	63	Chiba	
Tokyo	7	1	2		4		2	5	17	5	7	5		3	4	1	7	4	4	8	5	3	6	100	Tokyo	
Kanagawa	1	1	1		2		8	9	6	2		6	4	5	7	1	6	9	16	5	6	3		98	Kanagawa	
Niigata		1	1					2	4	2	3	4	4	4	2	2	4		7	4	5	4		53	Niigata	
Toyama	2	1	1					1	1		1	1			2		1	1	1	3		1		17	Toyama	
Ishikawa	1	3	1				2	1	2	6	1	2	7	4	2	3	2	5	2	2	4		3	53	Ishikawa	
Fukui		2					1	1	1	2			2	2	1	1	1		4	2	1	1	1	23	Fukui	
Yamanashi			1		1		3	1			2				4		2	3	2	1	1		2	23	Yamanashi	
Nagano	3	1	3		2			5	2	2	3	2	4	2	2	4	3	1	3	2	1	1	2	48	Nagano	
Gifu	1				3		1	4	1	1	7	3	3	3	5	1	3	4	3	6	1	3	3	56	Gifu	
Shizuoka		2			2		3	2	4	2	3	6	1	2	1	2	1	6	3	5	1	2	3	51	Shizuoka	
Aichi	3	8	6		10		5	8	5	5	3	2	3	5	3	5	3	2	4	7	3	6		96	Aichi	
Mie	3	2			1		1	2	3	3	5	3	1		1	1	1	3	3	3	2	3	1	42	Mie	
Shiga									2		1	1	1	3	2	1	1			2	1	3	1	19	Shiga	
Kyoto	1				4		2	5	2	1	2	5	1	2	1	3	2	1	3	3	3	5	3	49	Kyoto	

Osaka	6	3	3		3		8	8	8	6	7	7	3	6	3	3	1	4	5	3	6	2	4	99	Osaka
Hyogo	1	1	3		3		1	7	5	3	2	2	4	2	5	2	5	3	5	8	6	4	2	74	Hyogo
Nara	1	4	4		2		1	2	1	1	3	2	4	2	2	5	3	1	4	3	4			49	Nara
Wakayama					1			1			1	1	1		1		1					1	3	11	Wakayama
Tottori									2	1	1			1	1				1	1		1		9	Tottori
Shimane			1		1			2	1	4	1	2	1	1		1			1	1		2		19	Shimane
Okayama							1	1		1	1	2	3	1	1	2	3	1	1	1		3	2	24	Okayama
Hiroshima	1	1	2		2		2	2	1	2	1	2	3		1		1	2	3	1	2		2	31	Hiroshima
Yamaguchi	1	1	1		1		1	2				2		2			2	1		1	2		1	18	Yamaguchi
Tokushima							1									1								2	Tokushima
Kagawa			3					2				2	1			1			2	3		1		15	Kagawa
Ehime	2	1	2		1		3	1	1	2	3	4	3		3	3	1	3	1	2		2	3	41	Ehime
Kochi			1		1		2	1		1	4	2											1	13	Kochi
Fukuoka	4	3	2		3		2	1	6	4	4		3	1	2	5	4	6	9	4	3	5	4	75	Fukuoka
Saga	1	2	5		1		2	1		1	3	1	3	3		4	1	4	4	5		1	2	44	Saga
Nagasaki							2				2	1			4					1		1		11	Nagasaki
Kumamoto	1	2	7		7		6	6	4	3	3	3	9		6	4	5	2	3	3	7	9	6	96	Kumamoto
Oita	3	1			2		1		1		2	2	1	1	3	3	2	2	3	4	1	1	1	34	Oita
Miyazaki	1		1		2			1	1			1	3	1	1		1	1	1		2	5	1	23	Miyazaki
Kagoshima	4	2	1		1		3	4	1	2	1		1	2	3	8	5	1	5	6	2	8	6	66	Kagoshima
Okinawa	1				1		1														1			4	Okinawa
total	58	58	64		80		88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118	98	2,089	total





injury to the sole of the foot																								injury to the sole of the foot
drown						1						1											2	drown
contact to high/low-temperature																								contact to high/low-temperature
contact to harmful substance																		1					1	contact to harmful substance
electric shock																								electric shock
explosion									3														3	explosion
burst																								burst
fire										1													1	fire
traffic accident (public road)							1																1	traffic accident (public road)
traffic accident (others)																								traffic accident (others)
reaction to motion/improper motion																								reaction to motion/improper motion
others				1							1				1								3	others
unclassifiable																								unclassifiable
total		1		1	1	1	2	1	3	1	2		3		1	1					1		19	total

















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





no causal agent				1							1				1									3	no causal agent	
unclassifiable																									unclassifiable	
total		1		1	1	1	2	1	3	1	2		3		1	1					1				19	total

Workers age of fatal accidents in bathhouse in 1999-2021

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	
19 years old or less																										19 years old or less
20-29									2				1												3	20-29
30-39											1				1										2	30-39
40-49																					1				1	40-49
50-59		1				1	1		1		1														5	50-59
60 years old or more				1	1		1	1		1			2			1									8	60 years old or more
total		1		1	1	1	2	1	3	1	2		3		1	1					1				19	total

Workers' number of workplace of fatal accidents in bathhouse in 1999-2021

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	
9 workers or less				1	1	1	2			1	1		1												8	9 workers or less
10-29		1						1					2								1				5	10-29
30-49																1									1	30-49
50-99									3		1				1										5	50-99

100-299																										100-299
300 workers or more																										300 workers or more
total	1		1	1	1	2	1	3	1	2		3		1	1						1				19	total

Month of fatal accidents in bathhouse in 1999-2021

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		
January		1		1	1						1				1										5	January	
February																					1					1	February
March																1										1	March
April								1																		1	April
May										1																1	May
June						1			3				1													5	June
July																											July
August																											August
September							1				1															2	September
October																											October
November							1							1												2	November
December														1												1	December
total		1		1	1	1	2	1	3	1	2		3		1	1					1					19	total

Prefecture of fatal accidents in bathhouse in 1999-2021







Miyazaki																									Miyazaki	
Kagoshima		1																							1	Kagoshima
Okinawa																										Okinawa
total		1		1	1	1	2	1	3	1	2		3		1	1					1				19	total

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

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