Fatal and non-fatal accidents in bathhouse in Japan in 1999-2022

bathhouse industry Code No.130301

Type of accidents in bathhouse 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	12	15	11	13	15	21	12	22	18	19	21	20	22	16	17	18	21	13	25	32	13	23	20	15	434
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	49	982
crash	2	3	5		6	3	7	5	8	4	8	7	5	8	5	5	7	5	8	7	10	11	3	4	136
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	7	74
collapse			1		1			2		1	1				1	1	2	1	2	1	2			1	17
crashed by		2	2		2	2		5	2		1	2		2	1	2		3	3	1	2	3	2	3	40
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	2	104
cut	7	5	4	7	2	9	8	10	11	7	14	5	3	7	12	9	11	7	9	8	9	4	5	6	179
injury to the sole of the foot	1													1	1					1	1	1			6
drown							1						1												2
contact to high/low-	6	2	4	6	6	5	7	4	9	5	5	4	2	4	9	4	4	3	5	4	7	1	1	1	108

temperature																									
contact to harmful substance		1						1		1		1		2	2			2	4	2	1			3	20
electric shock		1								1															2
explosion							1		5		1														7
burst									1				1				1								3
fire										1												1			2
traffic accident (public road)		1	1		2		1	1		2	1			1	2		1		1						14
traffic accident (others)									1									1							2
reaction to motion/improper motion	3	6	9	6	6	7	5	12	10	6	7	6	13	1	5	9	10	4	16	10	15	11	10	15	202
others				2				2			2	1	1	1	2	2			1	1	1	3	4		23
unclassifiable	1			1	1																1				4
total	58	58	64	73	80	93	88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118	98	106	2,361

Causal agents (large) of fatal and non-fatal accidents in bathhouse 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	3	2		3	1	6		3	8	3	9	4	3	5	4	4	4	3	6	1	1	1	4	3	81

crane, conveying machine		3	3	2	1		2	2	1	2	1	2		2	5	1	2		2	2	1	1		1	36
other equipment	12	12	20	18	14	26	25	32	30	24	31	26	17	31	33	25	31	26	33	36	23	37	21	22	605
temporary buildings, establishments	29	28	27	38	42	42	38	48	61	47	60	49	52	44	40	46	45	47	75	68	53	62	51	59	1,151
substance, material	7	6	3	4	4	3	7	4	15	6	2	2	2	5	7	5	1	5	8	6	4	5	2	3	116
load		2	2	1	3	2	6	4	4	2	2	4	4	1	1	3	1	4	4	11	5	1	4	4	75
environment	3	2	4		5	6	5	4	2	2	2	5	8	4	6	2	4	6	9	11	10	2	6	5	113
others	4	3	5	7	10	8	5	14	8	6	6	9	9	4	5	8	13	4	11	6	11	9	10	9	184
total	58	58	64	73	80	93	88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118	98	106	2,361

Causal agents (middle) of fatal and non-fatal accidents in bathhouse 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												1					1								2
woodworking machine	1					1			2		1	1				1	1		1			1	1		11

construction machine		1				1							1												3
metal manufacturing machine						1					2													1	4
general machine	2	1		3	1	3		3	6	3	6	2	2	5	4	3	2	3	5	1	1		3	2	61
mobile silviculture machine																									
crane							1																		1
conveying machine		2						1				1		1	1				1	2					9
vehicle		1	3	2	1		1	1	1	2	1	1		1	4	1	2		1		1	1		1	26
pressure vessel											4					1	2	1		1		1	1	1	12
chemical facilities				1																					1
welding equipment																									
kiln, caldron	1	1	1	1				1	1								1								7
electric equipment		1		1		1				1								1	1			1		1	8
human power machine, tools	1	3	4	5	2	5	4	9	2	4	7	4	1	5	7	2	6	4	5	6	6	7	1	3	103
tools	10	6	12	7	11	16	13	13	19	15	17	19	8	15	19	16	17	10	19	22	8	18	12	12	334
other equipments,																									

facilities		1	3	3	1	4	8	9	8	4	3	3	8	11	7	6	5	10	8	7	9	10	7	5	140
temporary buildings, establishments	29	28	27	38	42	42	38	48	61	47	60	49	52	44	40	46	45	47	75	68	53	62	51	59	1,151
hazards, harmful substances	2	2	1		1		2	2	7	3				2	2	1		2	4	1	1	1		3	37
materials	5	4	2	4	3	3	5	2	8	3	2	2	2	3	5	4	1	3	4	5	3	4	2		79
load		2	2	1	3	2	6	4	4	2	2	4	4	1	1	3	1	4	4	11	5	1	4	4	75
natural environment	3	2	4		5	6	5	4	2	2	2	5	8	4	6	2	4	6	9	11	10	2	6	5	113
other causal agent	3	1		2	4	1	2	5	2	4	3	3	2	1	2	5	4	4	1	2	2	3	4	3	63
no causal agent		2	5	5	5	7	3	9	6	1	3	6	7	3	3	3	9		10	4	8	6	6	6	117
unclassifiable	1				1					1											1				4
total	58	58	64	73	80	93	88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118	98	106	2,361

Causal agents (small) of fatal and non-fatal accidents in bathhouse 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												1					1								2

circular sawing machine											1	1				1			1			1	1		6
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw									2								1								3
other woodworking machines																									
leveling, transporting or loading machine																									
excavating machine																									
foundation work machine																									
hardening machine																									

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

injection molding machine																									
food manufacturing machine								1	4	2	3	2	2	2	1	2		2	3				2	2	28
printing machine																									
industrial robot																									
other general power machines					1			1	2	1	3			2	3	1	2	1	2	1	1		1		22
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane							1																		1
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck														1						1					2
forklift																				1					1
railway equipment																									
conveyor												1			1										2
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines								1											1						2
cars, bus, motorcycle			2		1		1	1	1	2	1	1		1	4	1	2		1		1	1		1	22
railway vehicle																									
other vehicles			1																						1
boiler																1				1		1		1	4

pressure vessel																	1								1
other pressure vessels											4						1	1					1		7
chemical facilities																									
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron			1					1	1																3
industrial dryer																	1								1
other kiln, caldron																									
transmission										1								1				1			3
electric power facilities																									
other electrical equipment																			1					1	2
human power cranes																								1	1
human power hauling equipment			2		1		2	2		1	2	2		1	4	1	1	2		1	2	5			29

human power machine										1								1							2
hand tool			2		1		2	7	2	2	5	2	1	4	3	1	5	1	5	5	4	2	1	2	57
ladder			7		8		4	8	12	12	9	12	5	6	5	9	7	5	11	16	4	7	6	3	156
slinging tool																									
other tools			5		3		9	5	7	3	8	7	3	9	14	7	10	5	8	6	4	11	6	9	139
other equipment, facilities			3		1		8	9	8	4	3	3	8	11	7	6	5	10	8	7	9	10	7	5	132
scaffolding					1									1		1									3
timbering																	1								1
stairs, landing stage			5		10		5	7	11	10	12	5	8	5	5	9	5	5	11	6	11	7	8	12	157
opening														1						1	1	1	3	1	8
roof, beam, haze, crossbeam, principal rafter											1	2	2	1		1			1	1	1	1		1	12
working platform, boot board			5		5		5	9	11	9	8	10	11	6	3	13	10	10	9	14	6	13	9	7	173
passage			9		15		17	20	24	20	25	17	25	19	22	13	20	26	38	25	22	21	21	30	429
building, establishment			4		8		5	10	9	6	9	8	4	5	7	4	5	3	7	6	4	6	4	3	117
other temporary buildings,			4		3		6	2	6	2	5	7	2	6	3	5	4	3	9	15	8	13	6	5	114

establishments																									
explosive substance																									
inflammable substance																									
inflammable gas			1				1		5													1			8
harmful substance														2	1			2	3	1	1			2	12
radiation										1															1
other hazards, harmful substances					1		1	2	2	2					1	1			1					1	12
metal material			1						1	1		1			2				1	1			1		9
lumber, bamboo							1												1	1		1			4
stone, sand, substance					1					1												1			3
other materials			1		2		4	2	7	1	2	1	2	3	3	4	1	3	2	3	3	2	1		47
load			2		3		5	4	3	2	2	4	4	1	1	3	1	4	4	11	5	1	4	4	68
machine/equipment as load							1		1																2
natural ground, rock							1	1						1	1		1		2		1	1	1		10
standing tree									1		1					1					1				4
water			1				1			1			1					1		1	1				7
abnormal																									

environment												1	1							1					3
high/cold temperature environment					1						1	1			3					1	1			1	9
other environments			3		4		3	3	1	1		3	6	3	2	1	3	5	7	8	6	1	5	4	69
other causal agent					4		2	5	2	4	3	3	2	1	2	5	4	4	1	2	2	3	4	3	56
no causal agent			5		5		3	9	6	1	3	6	7	3	3	3	9		10	4	8	6	6	6	103
unclassifiable					1					1											1				3
total	58	58	64	73	80	93	88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118	98	106	2,361

Workers age of fatal and non-fatal accidents in bathhouse 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	2	5	2	1	2		1	6	2	3	3		1	3	3	1			3	2		2	1	44
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	11	205
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	5	227
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	15	307
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	21	666
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	53	912
total	58	58	64	73	80	93	88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118	98	106	2,361

Workers' number of workplace of fatal and non-fatal accidents in bathhouse 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	15	6	9	15	10	15	11	17	10	8	18	13	9	8	11	13	11	8	15	15	11	15	12	4	279
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	42	658
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	25	550
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	29	514
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	6	321
300 workers or more	3			1	2		4	1	9	2	1			1	2			1	4	2	1	4	1		39
total	58	58	64	73	80	93	88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118	98	106	2,361

Month of fatal and non-fatal accidents in bathhouse 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	4	7	8	11	9	8	6	11	15	6	16	9	13	13	15	5	13	12	16	15	14	12	10	6	254
February	8	8	2	7	8	5	4	10	13	7	11	10	7	7	6	11	10	8	11	14	12	9	11	11	210
March	4	5	4	4	10	10	4	13	12	8	12	8	9	7	6	7	5	7	13	17	9	5	9	11	199
April	4	1	4	2	10	10	6	8	6	9	8	12	5	15	8	9	7	7	8	6	3	5	8	8	169
May	2	2	7	10	6	4	8	12	15	15	16	11	13	4	7	7	5	4	10	9	9	8	3	13	200
June	6	4	7	3	7	8	15	13	14	8	7	10	9	7	7	10	11	8	15	11	10	11	7	10	218

July	6	6	4	8	1	14	7	13	11	7	11	9	8	10	10	8	10	8	10	14	8	12	10	7	212
August	5	2	7	4	10	9	8	8	9	5	4	9	10	5	10	8	10	5	7	17	13	10	6	6	187
September	2	5	7	5	5	6	6	3	8	6	8	5	1	6	5	9	7	6	16	8	11	6	11	4	156
October	7	8	4	7	5	6	6	8	10	3	8	6	3	7	11	7	7	12	15	10	11	10	6	12	189
November	4	4	7	5	5	6	9	9	7	10	5	7	12	9	11	10	10	9	15	9	3	13	8	6	193
December	6	6	3	7	4	7	9	3	9	8	7	5	5	6	5	3	6	9	12	11	5	17	9	12	174
total	58	58	64	73	80	93	88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118	98	106	2,361

Prefecture of fatal and non-fatal accidents in bathhouse 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	2	7	3		3		7	6	9	8	8	7	6	6	11	13	11	10	14	14	11	14	9	14	193
Aomori	1	2	3		5		7		5	2	1	3	4	9	1	1	2	5	3	4	4	1	6	3	72
Iwate					1		1	1	2	2	1	1	2	1					1	1			1		15
Miyagi					1				1			1	1	1	2	1	1		1	1		1	2	3	17
Akita		1	1		1		2		4	3	4	1	1	1	2	1			1			2	1	1	27
Yamagata	1	2						1				1	2	1		1				1	2	1		3	16
Fukushima			1					2	2	1	1			1	2	1			1	3	1				16
Ibaraki			1		2		1	1	3	2	1	1	1	2	1	4				2	1	2		1	26
Tochigi	2		1		3		1	1	3	2	3		1	3	2				4	4		2		6	38
Gunma	1	2			2		1	3	4	2	5	4		4	3		6	4	2	1	6	2	2	3	57

Saitama	1		2		1		2	4	9	4	10	6	2	5	4	2	4	4	11	5	5	8	8	9	106
Chiba	1	1					1	4	5	4	2		1	4		3	5	2	7	5	8	4	6	3	66
Tokyo	7	1	2		4		2	5	17	5	7	5		3	4	1	7	4	4	8	5	3	6	4	104
Kanagawa	1	1	1		2		8	9	6	2		6	4	5	7	1	6	9	16	5	6	3		2	100
Niigata		1	1					2	4	2	3	4	4	4	2	2	4		7	4	5	4		1	54
Toyama	2	1	1					1	1		1	1			2		1	1	1	3		1		1	18
Ishikawa	1	3	1				2	1	2	6	1	2	7	4	2	3	2	5	2	2	4		3	1	54
Fukui		2					1	1	1	2			2	2	1	1	1		4	2	1	1	1	3	26
Yamanashi			1		1		3	1			2				4		2	3	2	1	1		2	2	25
Nagano	3	1	3		2			5	2	2	3	2	4	2	2	4	3	1	3	2	1	1	2	1	49
Gifu	1				3		1	4	1	1	7	3	3	3	5	1	3	4	3	6	1	3	3	4	60
Shizuoka		2			2		3	2	4	2	3	6	1	2	1	2	1	6	3	5	1	2	3		51
Aichi	3	8	6		10		5	8	5	5	3	2	3	5	3	5	3	2	4	7	3	6		2	98
Mie	3	2			1		1	2	3	3	5	3	1		1	1	1	3	3	3	2	3	1	2	44
Shiga									2		1	1	1	3	2	1	1			2	1	3	1		19
Kyoto	1				4		2	5	2	1	2	5	1	2	1	3	2	1	3	3	3	5	3	1	50
Osaka	6	3	3		3		8	8	8	6	7	7	3	6	3	3	1	4	5	3	6	2	4	6	105
Hyogo	1	1	3		3		1	7	5	3	2	2	4	2	5	2	5	3	5	8	6	4	2	6	80
Nara	1	4	4		2		1	2	1	1	3	2	4	2	2	5	3	1	4	3	4				49
Wakayama					1			1			1	1	1		1		1					1	3	2	13
Tottori									2	1	1			1	1				1	1		1			9

Shimane			1		1			2	1	4	1	2	1	1		1			1	1		2			19
Okayama							1	1		1	1	2	3	1	1	2	3	1	1	1		3	2	1	25
Hiroshima	1	1	2		2		2	2	1	2	1	2	3		1		1	2	3	1	2		2	2	33
Yamaguchi	1	1	1		1		1	2				2		2			2	1		1	2		1		18
Tokushima							1									1									2
Kagawa			3					2				2	1			1			2	3		1		1	16
Ehime	2	1	2		1		3	1	1	2	3	4	3		3	3	1	3	1	2		2	3	1	42
Kochi			1		1		2	1		1	4	2											1		13
Fukuoka	4	3	2		3		2	1	6	4	4		3	1	2	5	4	6	9	4	3	5	4	5	80
Saga	1	2	5		1		2	1		1	3	1	3	3		4	1	4	4	5		1	2	1	45
Nagasaki							2				2	1			4					1		1			11
Kumamoto	1	2	7		7		6	6	4	3	3	3	9		6	4	5	2	3	3	7	9	6	6	102
Oita	3	1			2		1		1		2	2	1	1	3	3	2	2	3	4	1	1	1		34
Miyazaki	1		1		2			1	1			1	3	1	1		1	1	1		2	5	1	1	24
Kagoshima	4	2	1		1		3	4	1	2	1		1	2	3	8	5	1	5	6	2	8	6	4	70
Okinawa	1				1		1														1				4
total	58	58	64	73	80	93	88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118	98	106	2,361

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)

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Fatal accidents in bathhouse in Japan in 1999-2022

bathhouse industry Code No.130301

Type of fatal accidents in bathhouse 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	1		1					1			1									6
falling to same level																									
crash																									
struck by flying or falling object																									
collapse																									
crashed by											1														1
caught in/between													1												1
cut																									
injury to the sole of the foot																									

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

Causal agents (large) of fatal accidents in bathhouse 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		1												2
crane, conveying machine							1																		1
other equipment					1					1			2			1									5
temporary buildings, establishments		1				1	1	1																	4
substance, material									3																3
load																									
environment																				1					1
others				1							1				1										3
total		1		1	1	1	2	1	3	1	2		3		1	1				1					19

Causal agents (middle) of fatal accidents in bathhouse 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													1												1
metal manufacturing machine																									
general machine											1														1
mobile silviculture machine																									
crane																									
conveying machine																									
vehicle							1																		1
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment										1															1
human power machine, tools																									
tools					1								1			1									3
other equipments,																									

facilities													1												1
temporary buildings, establishments		1				1	1	1																	4
hazards, harmful substances									3																3
materials																									
load																									
natural environment																				1					1
other causal agent																									
no causal agent				1							1				1										3
unclassifiable																									
total		1		1	1	1	2	1	3	1	2		3		1	1				1					19

Causal agents (small) of fatal accidents in bathhouse 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													1												1
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											1														1
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																									
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle							1																		1
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																									
other electrical equipment										1															1
human power cranes																									
human power hauling equipment																									

human power machine																									
hand tool																									
ladder					1								1			1									3
slinging tool																									
other tools																									
other equipment, facilities													1												1
scaffolding																									
timbering																									
stairs, landing stage																									
opening																									
roof, beam, haze, crossbeam, principal rafter		1				1																			2
working platform, boot board																									
passage								1																	1
building, establishment																									
other temporary buildings,							1																		1

establishments																									
explosive substance																									
inflammable substance																									
inflammable gas									3																3
harmful substance																									
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																									
abnormal																									

environment																				1					1
high/cold temperature environment																									
other environments																									
other causal agent																									
no causal agent				1							1				1										3
unclassifiable																									
total		1		1	1	1	2	1	3	1	2		3		1	1				1					19

Workers age of fatal accidents in bathhouse 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									2				1												3
30-39											1				1										2
40-49																				1					1
50-59		1				1	1		1		1														5
60 years old or more				1	1		1	1		1			2			1									8
total		1		1	1	1	2	1	3	1	2		3		1	1				1					19

Workers' number of workplace of fatal accidents in bathhouse 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	2			1	1		1												8
10-29		1						1					2							1					5
30-49																1									1
50-99									3		1				1										5
100-299																									
300 workers or more																									
total		1		1	1	1	2	1	3	1	2		3		1	1				1					19

Month of fatal accidents in bathhouse 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	1						1				1										5
February																				1					1
March																1									1
April								1																	1
May										1															1
June						1			3				1												5

July																									
August																									
September							1				1														2
October																									
November							1						1												2
December													1												1
total		1		1	1	1	2	1	3	1	2		3		1	1				1					19

Prefecture of fatal accidents in bathhouse 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		1												3
Aomori					1																				1
Iwate							1																		1
Miyagi						1																			1
Akita																									
Yamagata																									
Fukushima																									
Ibaraki																									
Tochigi																									
Gunma																									

Saitama																									
Chiba																									
Tokyo									3	1			1												5
Kanagawa															1										1
Niigata																									
Toyama																									
Ishikawa																									
Fukui																									
Yamanashi																									
Nagano																									
Gifu																									
Shizuoka																									
Aichi							1																		1
Mie																									
Shiga																									
Kyoto																									
Osaka																									
Hyogo													1							1					2
Nara																1									1
Wakayama																									
Tottori																									

Shimane																									
Okayama																									
Hiroshima																									
Yamaguchi								1																	1
Tokushima																									
Kagawa																									
Ehime																									
Kochi																									
Fukuoka																									
Saga											1														1
Nagasaki																									
Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima		1																							1
Okinawa																									
total		1		1	1	1	2	1	3	1	2		3		1	1				1					19

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

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