

Industrial accidents in bathhouse in Japan in 1999-2020

bathhouse industry Code No.130301

Type of accidents in bathhouse in 1999-2020

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
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
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
crash	2	3	5	-	6	3	7	5	8	4	8	7	5	8	5	5	7	5	8	7	10	11
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
collapse	0	0	1	-	1	-	0	2	0	1	1	0	0	0	1	1	2	1	2	1	2	0
crashed by	0	2	2	-	2	2	0	5	2	0	1	2	0	2	1	2	0	3	3	1	2	3
caught in/between	1	1	3	7	4	9	4	4	6	5	4	6	3	5	5	3	4	5	7	9	0	1
cut	7	5	4	7	2	9	8	10	11	7	14	5	3	7	12	9	11	7	9	8	9	4
injury to the sole of the foot	1	0	0	-	0	-	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1
drown	0	0	0	-	0	-	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
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
contact to harmful substance	0	1	0	-	0	-	0	1	0	1	0	1	0	2	2	0	0	2	4	2	1	0
electric shock	0	1	0	-	0	-	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
explosion	0	0	0	-	0	-	1	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0
burst	0	0	0	-	0	-	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0
fire	0	0	0	-	0	-	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
traffic accident (public road)	0	1	1	-	2	-	1	1	0	2	1	0	0	1	2	0	1	0	1	0	0	0
traffic accident (others)	0	0	0	-	0	-	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0
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
others	0	0	0	2	0	-	0	2	0	0	2	1	1	1	2	2	0	0	1	1	1	3

unclassifiable	1	0	0	1	1	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
total	58	58	64	73	80	93	88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118

Causal agents (middle) of industrial accidents in bathhouse in 1999-2020

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
engine	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	0	0	-	0	-	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
woodworking machine	1	0	0	-	0	1	0	0	2	0	1	1	0	0	0	1	1	0	1	0	0	1
construction machine	0	1	0	-	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
metal manufacturing machine	0	0	0	-	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
general machine	2	1	0	3	1	3	0	3	6	3	6	2	2	5	4	3	2	3	5	1	1	0
mobile silviculture machine																	0	0	0	0	0	0
crane	0	0	0	-	0	-	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveying machine	0	2	0	-	0	-	0	1	0	0	0	1	0	1	1	0	0	0	1	2	0	0
vehicle	0	1	3	2	1	-	1	1	1	2	1	1	0	1	4	1	2	0	1	0	1	1
pressure vessel	0	0	0	-	0	-	0	0	0	0	4	0	0	0	0	1	2	1	0	1	0	1
chemical facilities	0	0	0	1	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron	1	1	1	1	0	-	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0
electric equipment	0	1	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	1
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
tools	10	6	12	7	11	16	13	13	19	15	17	19	8	15	19	16	17	10	19	22	8	18
other equipments, facilities	0	1	3	3	1	4	8	9	8	4	3	3	8	11	7	6	5	10	8	7	9	10
temporary buildings,	29	28	27	38	42	42	38	48	61	47	60	49	52	44	40	46	45	47	75	68	53	62







equipment																						
arc welding equipment			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other welding equipment			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron			1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial dryer			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
other kiln, caldron			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission			0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1
electric power facilities			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other electrical equipment			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
human power cranes			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power hauling equipment			2	1	2	2	0	1	2	2	0	1	4	1	1	2	0	1	2	5		
human power machine			0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
hand tool			2	1	2	7	2	2	5	2	1	4	3	1	5	1	5	5	4	2		
ladder			7	8	4	8	12	12	9	12	5	6	5	9	7	5	11	16	4	7		
slinging tool			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other tools			5	3	9	5	7	3	8	7	3	9	14	7	10	5	8	6	4	11		
other equipment, facilities			3	1	8	9	8	4	3	3	8	11	7	6	5	10	8	7	9	10		
scaffolding			0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
timbering			0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
stairs, landing stage			5	10	5	7	11	10	12	5	8	5	5	9	5	5	11	6	11	7		
opening			0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1		
roof, beam, haze, crossbeam, principal rafter			0	0	0	0	0	0	1	2	2	1	0	1	0	0	1	1	1	1		
working platform, boot board			5	5	5	9	11	9	8	10	11	6	3	13	10	10	9	14	6	13		
passage			9	15	17	20	24	20	25	17	25	19	22	13	20	26	38	25	22	21		
building, establishment			4	8	5	10	9	6	9	8	4	5	7	4	5	3	7	6	4	6		



19 years old or less	1	2	5	2	1	2	0	1	6	2	3	3	0	1	3	3	1	0	0	3	2	0
20-29	5	5	10	6	7	7	15	9	18	8	10	7	7	11	13	3	5	7	8	10	11	9
30-39	3	5	4	6	13	9	16	22	14	14	10	11	6	14	7	13	5	6	10	13	7	10
40-49	6	7	8	13	11	7	10	11	19	15	9	12	12	9	18	11	19	21	19	14	13	15
50-59	23	23	16	35	27	22	28	38	48	24	33	27	23	26	22	28	25	27	45	28	22	34
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
total	58	58	64	73	80	93	88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118

#### Workers' number of workplace of industrial accidents in bathhouse in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
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
10-29	17	14	20	15	29	27	24	24	39	25	27	36	31	29	27	27	26	26	36	31	25	30
30-49	8	13	18	21	16	18	17	30	27	24	29	19	27	24	21	19	23	24	26	43	24	27
50-99	8	14	8	14	10	21	19	24	25	20	29	23	18	24	27	17	26	13	39	30	26	30
100-299	7	11	9	7	13	12	13	15	19	13	9	10	10	10	13	18	15	23	28	20	21	12
300 workers or more	3	0	0	1	2	0	4	1	9	2	1	0	0	1	2	0	0	1	4	2	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

#### Month of industrial accidents in bathhouse in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	4	7	8	11	9	8	6	11	15	6	16	9	13	13	15	5	13	12	16	15	14	12
February	8	8	2	7	8	5	4	10	13	7	11	10	7	7	6	11	10	8	11	14	12	9
March	4	5	4	4	10	10	4	13	12	8	12	8	9	7	6	7	5	7	13	17	9	5
April	4	1	4	2	10	10	6	8	6	9	8	12	5	15	8	9	7	7	8	6	3	5
May	2	2	7	10	6	4	8	12	15	15	16	11	13	4	7	7	5	4	10	9	9	8
June	6	4	7	3	7	8	15	13	14	8	7	10	9	7	7	10	11	8	15	11	10	11
July	6	6	4	8	1	14	7	13	11	7	11	9	8	10	10	8	10	8	10	14	8	12
August	5	2	7	4	10	9	8	8	9	5	4	9	10	5	10	8	10	5	7	17	13	10
September	2	5	7	5	5	6	6	3	8	6	8	5	1	6	5	9	7	6	16	8	11	6
October	7	8	4	7	5	6	6	8	10	3	8	6	3	7	11	7	7	12	15	10	11	10
November	4	4	7	5	5	6	9	9	7	10	5	7	12	9	11	10	10	9	15	9	3	13
December	6	6	3	7	4	7	9	3	9	8	7	5	5	6	5	3	6	9	12	11	5	17



total	58	58	64	73	80	93	88	111	129	92	113	101	95	96	101	94	101	95	148	141	108	118
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Prefecture of industrial accidents in bathhouse in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	2	7	3		3		7	6	9	8	8	7	6	6	11	13	11	10	14	14	11	14
Aomori	1	2	3		5		7	0	5	2	1	3	4	9	1	1	2	5	3	4	4	1
Iwate	0	0	0		1		1	1	2	2	1	1	2	1	0	0	0	0	1	1	0	0
Miyagi	0	0	0		1		0	0	1	0	0	1	1	1	2	1	1	0	1	1	0	1
Akita	0	1	1		1		2	0	4	3	4	1	1	1	2	1	0	0	1	0	0	2
Yamagata	1	2	0		0		0	1	0	0	0	1	2	1	0	1	0	0	0	1	2	1
Fukushima	0	0	1		0		0	2	2	1	1	0	0	1	2	1	0	0	1	3	1	0
Ibaraki	0	0	1		2		1	1	3	2	1	1	1	2	1	4	0	0	0	2	1	2
Tochigi	2	0	1		3		1	1	3	2	3	0	1	3	2	0	0	0	4	4	0	2
Gunma	1	2	0		2		1	3	4	2	5	4	0	4	3	0	6	4	2	1	6	2
Saitama	1	0	2		1		2	4	9	4	10	6	2	5	4	2	4	4	11	5	5	8
Chiba	1	1	0		0		1	4	5	4	2	0	1	4	0	3	5	2	7	5	8	4
Tokyo	7	1	2		4		2	5	17	5	7	5	0	3	4	1	7	4	4	8	5	3
Kanagawa	1	1	1		2		8	9	6	2	0	6	4	5	7	1	6	9	16	5	6	3
Niigata	0	1	1		0		0	2	4	2	3	4	4	4	2	2	4	0	7	4	5	4
Toyama	2	1	1		0		0	1	1	0	1	1	0	0	2	0	1	1	1	3	0	1
Ishikawa	1	3	1		0		2	1	2	6	1	2	7	4	2	3	2	5	2	2	4	0
Fukui	0	2	0		0		1	1	1	2	0	0	2	2	1	1	1	0	4	2	1	1
Yamanashi	0	0	1		1		3	1	0	0	2	0	0	0	4	0	2	3	2	1	1	0
Nagano	3	1	3		2		0	5	2	2	3	2	4	2	2	4	3	1	3	2	1	1
Gifu	1	0	0		3		1	4	1	1	7	3	3	3	5	1	3	4	3	6	1	3
Shizuoka	0	2	0		2		3	2	4	2	3	6	1	2	1	2	1	6	3	5	1	2
Aichi	3	8	6		10		5	8	5	5	3	2	3	5	3	5	3	2	4	7	3	6
Mie	3	2	0		1		1	2	3	3	5	3	1	0	1	1	1	3	3	3	2	3
Shiga	0	0	0		0		0	0	2	0	1	1	1	3	2	1	1	0	0	2	1	3
Kyoto	1	0	0		4		2	5	2	1	2	5	1	2	1	3	2	1	3	3	3	5
Osaka	6	3	3		3		8	8	8	6	7	7	3	6	3	3	1	4	5	3	6	2
Hyogo	1	1	3		3		1	7	5	3	2	2	4	2	5	2	5	3	5	8	6	4
Nara	1	4	4		2		1	2	1	1	3	2	4	2	2	5	3	1	4	3	4	0
Wakayama	0	0	0		1		0	1	0	0	1	1	1	0	1	0	1	0	0	0	0	1
Tottori	0	0	0		0		0	0	2	1	1	0	0	1	1	0	0	0	1	1	0	1





construction machine	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
metal manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
general machine	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
mobile silviculture machine																	0	0	0	0	0	0	0
crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveying machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
vehicle	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pressure vessel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric equipment	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
human power machine, tools	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tools	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
other equipments, facilities	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
temporary buildings, establishments	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hazards, harmful substances	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural environment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	0	1	0	1	1	1	2	1	3	1	2	0	3	0	1	1	0	0	0	1	0	0	0

















Oita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miyazaki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagoshima	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Okinawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	0	1	0	1	1	1	2	1	3	1	2	0	3	0	1	1	0	0	0	1	0	0

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

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