

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

hotel industry Code No.1401

Type of accidents in hotel 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	252	214	278	250	271	291	271	265	286	247	248	249	242	258	237	228	242	252	265	264	273	238	232	5,853	fall from height
falling to same level	653	632	662	650	650	622	648	617	632	673	611	652	588	579	607	668	618	650	736	761	760	575	617	14,861	falling to same level
crash	82	72	85	85	94	84	85	76	93	86	74	101	86	84	71	94	102	79	100	111	117	91	100	2,052	crash
struck by flying or falling object	72	71	77	66	72	80	74	78	74	59	63	72	80	58	68	73	50	60	50	46	52	34	34	1,463	struck by flying or falling object
collapse	23	23	26	20	29	22	26	33	24	35	24	18	16	24	23	15	21	23	26	16	17	10	6	500	collapse
crashed by	30	29	48	38	38	41	42	35	26	29	27	24	34	24	29	26	25	30	25	30	43	15	17	705	crashed by
caught in/between	102	103	98	84	99	97	73	92	97	93	67	75	92	73	75	64	66	71	76	54	73	43	61	1,828	caught in/between
cut	173	162	172	158	126	127	97	126	130	123	108	108	109	104	104	87	95	100	105	86	106	75	62	2,643	cut
injury to the sole of the foot		4	6	2	3	4	1	1		3	4	3	2	1		4		3	1	1	1	1	2	47	injury to the sole of the foot
drown	1	2						1				1	5				1			1	1			13	drown
contact to high/low-temperature	84	64	91	92	75	88	60	67	82	62	57	58	53	42	68	68	60	61	56	66	78	29	35	1,496	contact to high/low-temperature
contact to harmful	9	6	7	8	5	8	9	7	4	3	7	4	2	3	8	9	5	3	5	3	3	4	5	127	contact to harmful

substance																										substance
electric shock	3		1	1	1	2	1		1	2			1				3		1	1					18	electric shock
explosion	1	3	2	2	5	2		2	3	1	2			1	1	1				1					27	explosion
burst																	1								1	burst
fire	2	2	4	1	1	2	2	2		1	2		3	1	4		2	6	2						37	fire
traffic accident (public road)	26	25	34	19	25	36	14	11	21	20	14	20	11	23	16	20	16	8	12	16	10	8	6	411	traffic accident (public road)	
traffic accident (others)	2	3						1					1			1	1	1				1	1	12	traffic accident (others)	
reaction to motion/improper motion	177	157	155	169	148	140	148	189	208	183	165	144	144	158	159	167	160	161	185	165	231	169	179	3,861	reaction to motion/improper motion	
others	18	12	18	17	11	7	16	38	16	82	11	9	20	8	16	15	26	21	20	14	27	22	89	533	others	
unclassifiable	6	3	1	3	5	6	3	2	1	2	1	3	3	3	3	2	1	1	3	2	6			60	unclassifiable	
total	1,716	1,587	1,765	1,665	1,658	1,659	1,570	1,643	1,698	1,704	1,485	1,541	1,492	1,444	1,489	1,542	1,495	1,530	1,668	1,638	1,798	1,315	1,446	36,548	total	

Causal agents (large) of fatal and non-fatal accidents in hotel in 1999-2021

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	total	Causal (L) agents
machine	39	40	38	44	41	52	32	34	45	47	38	33	46	23	26	19	34	25	30	21	39	34	23	803	machine
crane, conveying machine	65	67	64	54	73	70	48	44	53	44	45	39	44	47	34	51	34	26	36	32	38	33	28	1,069	crane, conveying machine
other equipment	343	324	390	358	338	368	352	344	413	350	293	364	342	328	343	352	346	371	425	383	438	282	286	8,133	other

																									equipment
temporary buildings, establishments	829	766	824	796	829	795	797	806	808	823	753	788	734	726	739	783	748	785	840	872	892	705	746	18,184	temporary buildings, establishments
substance, material	104	92	118	111	86	94	69	89	78	78	80	69	68	72	83	64	66	56	48	50	61	30	38	1,704	substance, material
load	87	81	83	79	79	79	74	81	88	91	73	55	62	62	56	57	50	74	77	57	79	53	48	1,625	load
environment	86	68	89	69	78	60	76	74	73	63	56	65	88	70	85	94	85	69	63	75	68	52	77	1,683	environment
others	163	149	159	154	134	141	122	171	140	208	147	128	108	116	123	122	132	124	149	148	183	126	200	3,347	others
total	1,716	1,587	1,765	1,665	1,658	1,659	1,570	1,643	1,698	1,704	1,485	1,541	1,492	1,444	1,489	1,542	1,495	1,530	1,668	1,638	1,798	1,315	1,446	36,548	total

Causal agents (middle) of fatal and non-fatal accidents in hotel in 1999-2021

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	total	Causal (M) agents
engine			1								1				1									3	engine
power transmission mechanism			1				2	1	2				1		1		1				1			10	power transmission mechanism
woodworking machine	6	5	4	8	4	5	5	4	9	6	2	3	8	4	3		6	5	1	3	7	6	4	108	woodworking machine
construction machine	3	1		2	4	3	2	2	2	3	2	2	3	2	4	2	2	2	1	2	1	5	1	51	construction machine
metal manufacturing machine	4	1	2	5	3	1	1					1		1					1		3	3	1	27	metal manufacturing machine

general machine	26	33	30	29	30	43	22	27	32	38	33	27	34	16	17	17	25	18	27	16	26	19	17	602	general machine
mobile silviculture machine																					1	1		2	mobile silviculture machine
crane	10	6	9	9	9	3	5	8	8	3	3	2	4	3	4	4	3	5	4	3	4	3	2	114	crane
conveying machine	10	9	8	11	17	12	4	9	6	9	7	8	7	23	2	7	5	4	3		9	8	7	185	conveying machine
vehicle	45	52	47	34	47	55	39	27	39	32	35	29	33	21	28	40	26	17	29	29	25	22	19	770	vehicle
pressure vessel	1	2	3	3	3	2	2		3		1		1			4	1	5	1	2	1		1	36	pressure vessel
chemical facilities														1										1	chemical facilities
welding equipment			1																					1	welding equipment
kiln, caldron	2	4	2	2	1	3	6	2	1	2		4		1	4	7	4	1	1	2	6	2	4	61	kiln, caldron
electric equipment	5	3	7	4	3	8	5	2	3	5	4	3		4	2	6	5	3	5	4	5	2	8	96	electric equipment
human power machine, tools	109	94	121	108	88	66	76	94	102	79	70	72	72	74	68	70	70	77	99	72	82	51	49	1,863	human power machine, tools
tools	150	149	203	173	190	208	176	167	198	168	157	195	174	149	172	164	179	187	227	201	232	154	147	4,120	tools
other equipments, facilities	76	72	53	68	53	81	87	79	106	96	61	90	95	99	97	101	87	98	92	102	112	73	77	1,955	other equipments, facilities
temporary buildings, establishments	829	766	824	796	829	795	797	806	808	823	753	788	734	726	739	783	748	785	840	872	892	705	746	18,184	temporary buildings, establishments

hazards, harmful substances	20	19	28	34	19	26	20	20	17	18	17	16	12	14	20	16	14	15	17	9	15	4	7	397	hazards, harmful substances
materials	84	73	90	77	67	68	49	69	61	60	63	53	56	58	63	48	52	41	31	41	46	26	31	1,307	materials
load	87	81	83	79	79	79	74	81	88	91	73	55	62	62	56	57	50	74	77	57	79	53	48	1,625	load
natural environment	86	68	89	69	78	60	76	74	73	63	56	65	88	70	85	94	85	69	63	75	68	52	77	1,683	natural environment
other causal agent	82	71	74	64	45	63	57	66	45	108	56	39	34	33	36	39	43	40	42	37	42	35	113	1,264	other causal agent
no causal agent	74	69	83	86	76	63	61	98	92	84	83	83	70	74	82	80	76	79	103	107	135	90	87	1,935	no causal agent
unclassifiable	7	9	2	4	13	15	4	7	3	16	8	6	4	9	5	3	13	5	4	4	6	1		148	unclassifiable
total	1,716	1,587	1,765	1,665	1,658	1,659	1,570	1,643	1,698	1,704	1,485	1,541	1,492	1,444	1,489	1,542	1,495	1,530	1,668	1,638	1,798	1,315	1,446	36,548	total

Causal agents (small) of fatal and non-fatal accidents in hotel in 1999-2021

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	total	Causal (S) agents	
engine			1								1				1									3	engine	
power transmission mechanism			1				2	1	2				1		1		1				1				10	power transmission mechanism
circular sawing machine			4		2		2	1	6	2	1	3	8		3		3	3		2	5	4	3		52	circular sawing machine
band sawing machine																										band sawing machine
wood planer machine							2	1		2							1			1					7	wood planer machine

machine																								machine					
other mobile silviculture machine																					1		1	other mobile silviculture machine					
crane																								crane					
mobile crane									1													1	1	3	mobile crane				
derrick crane																									derrick crane				
elevator, lift			9		8		5	6	8	2	3	2	4	2	3	4	3	5	4	3	4	1		76	elevator, lift				
cargo lifting appliance																									cargo lifting appliance				
gondola								1																1	gondola				
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway				
simple skyline yarding equipment																									simple skyline yarding equipment				
other powered crane					1			1						1	1								1	1	6	other powered crane			
truck			5		10		3	4	6	8	6	6	4	20	2	7	3	4	3		6	7	5	109	truck				
forklift							1	1						1											3	forklift			
railway equipment			1														1								2	railway equipment			
conveyor					2								1				1								4	conveyor			
loader			2																						2	loader			
straddle carrier																										straddle carrier			
rough terrain hauler								1		1															2	rough terrain hauler			
other powered					5			3				1	2	2	2										3	1	2	21	other powered

conveying machines																								conveying machines		
cars, bus, motorcycle			44		43		34	22	36	29	30	22	26	19	24	33	25	15	24	28	21	18	15	508	cars, bus, motorcycle	
railway vehicle					1			1					1											3	railway vehicle	
other vehicles			3		3		5	4	3	3	5	7	6	2	4	7	1	2	5	1	4	4	4	73	other vehicles	
boiler							1		1				1			3					1		1	8	boiler	
pressure vessel					1		1		1		1							2		1				7	pressure vessel	
other pressure vessels			3		2					1						1	1	3	1	1				13	other pressure vessels	
chemical facilities														1										1	chemical facilities	
gas welding equipment																										gas welding equipment
arc welding equipment																										arc welding equipment
other welding equipment			1																					1	other welding equipment	
kiln, caldron			2		1		4	2		1		2			4	5	2		1	1	4	2	4	35	kiln, caldron	
industrial dryer							1					1									1			3	industrial dryer	
other kiln, caldron							1		1	1		1		1		2	2	1		1	1			12	other kiln, caldron	
transmission					1		1		1	1	3			3		1	1	3	3	3	4		5	30	transmission	
electric power facilities			2				1			1				1										5	electric power facilities	
other electrical equipment			5		2		3	2	2	3	1	3			2	5	4		2	1	1	2	3	41	other electrical equipment	
human power			1				1	1													3	3	7	16	human power	

cranes																									cranes
human power hauling equipment			32		35		32	37	32	34	29	32	35	24	26	26	38	35	50	38	37	19	17	608	human power hauling equipment
human power machine			1				1		1	1										1		1	2	8	human power machine
hand tool			87		53		43	55	70	44	40	40	37	50	42	44	32	42	49	33	42	28	23	854	hand tool
ladder			87		76		71	70	96	67	70	89	80	72	65	59	67	68	80	73	82	72	69	1,413	ladder
slinging tool			1										1											2	slinging tool
other tools			115		114		105	97	102	101	87	106	94	76	107	105	112	119	147	128	150	82	78	2,025	other tools
other equipment, facilities			53		53		87	79	106	96	61	90	95	99	97	101	87	98	92	102	112	73	77	1,658	other equipment, facilities
scaffolding			5		7		4	3	3	3	6	2	3	2	2	7	2	2			2		1	54	scaffolding
timbering								1		1	1	2								1		1	1	8	timbering
stairs, landing stage			182		197		162	186	196	176	168	169	152	180	167	166	175	171	189	204	210	153	159	3,362	stairs, landing stage
opening			6		2		3	3	4	1	7	5	5	7	4	2	5	7	4	3	1	3	2	74	opening
roof, beam, haze, crossbeam, principal rafter			16		7		12	10	4	6	7	6	11	12	10	9	5	5	7	14	5	3	13	162	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			102		109		98	98	103	103	88	112	75	74	96	113	96	96	119	115	104	88	80	1,869	working platform, boot board
passage			330		335		358	326	329	364	320	326	314	292	303	301	310	361	368	387	378	304	331	6,337	passage
building, establishment			102		99		87	89	100	110	91	79	107	86	90	104	85	85	94	99	97	71	93	1,768	building, establishment
other temporary buildings, establishments			81		73		73	91	68	60	65	88	65	73	67	81	70	58	59	49	95	82	66	1,364	other temporary buildings, establishments

explosive substance			1							1					1								3	explosive substance	
inflammable substance			1			2	1		1	2	1	1	4	2	4	1	4	3	1					28	inflammable substance
inflammable gas			5		3	2	4	5	4	1		2	2	2		1			1	2				34	inflammable gas
harmful substance			4		4	4	2	2	3	3	3	2	1	5	4	3	1	4	2	2	2	1		52	harmful substance
radiation																									radiation
other hazards, harmful substances			17		12		12	13	10	10	10	12	7	7	11	7	9	10	10	5	11	2	6	181	other hazards, harmful substances
metal material			14		4		4	11	8	3	4	8	4	6	4	7	5	7	2	5	6	1	2	105	metal material
lumber, bamboo			6		7		4	9	5	3	3	3	4	6	7	6	3	4	3	3	3	2	4	85	lumber, bamboo
stone, sand, substance			2		3		3	2	3	4	2	2		4	1	2	1	4		2			2	37	stone, sand, substance
other materials			68		53		38	47	45	50	54	40	48	42	51	33	43	26	26	31	37	23	23	778	other materials
load			81		74		67	78	79	87	69	53	59	57	51	55	49	69	75	55	77	49	45	1,229	load
machine/equipment as load			2		5		7	3	9	4	4	2	3	5	5	2	1	5	2	2	2	4	3	70	machine/equipment as load
natural ground, rock			10		10		12	14	10	11	10	10	11	5	3	14	4	3	12	3	6	6	7	161	natural ground, rock
standing tree			7		3		2	11	4	3	2	8	3	5	7	2	4	5	4	2	2	7	8	89	standing tree
water			3		2		9	4	6	5	2	1	13	1	4	8	5	7	1	4	2	4	3	84	water
abnormal environment							2	1			2					1	1			1	1			9	abnormal environment
high/cold temperature environment			10		17		2	12	17	2	6	6	8	4	10	6	11	12	5	16	10	6	6	166	high/cold temperature environment

other environments			59		46		51	31	35	42	36	38	53	55	61	64	60	41	41	50	47	28	53	891	other environments
other causal agent			74		45		57	66	45	108	56	39	34	33	36	39	43	40	42	37	42	35	113	984	other causal agent
no causal agent			83		76		61	98	92	84	83	83	70	74	82	80	76	79	103	107	135	90	87	1,643	no causal agent
unclassifiable			2		13		4	7	3	16	8	6	4	9	5	3	13	5	4	4	6	1		113	unclassifiable
total			1,765		1,658		1,570	1,643	1,698	1,704	1,485	1,541	1,492	1,444	1,489	1,542	1,495	1,530	1,668	1,638	1,798	1,315	1,446	29,921	total

Workers age of fatal and non-fatal accidents in hotel 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	55	57	59	49	51	51	40	43	50	45	36	41	33	37	41	52	37	37	47	36	35	15	19	966	19 years old or less
20-29	267	251	233	225	228	222	207	207	210	214	171	200	196	160	179	160	172	157	182	164	174	134	168	4,481	20-29
30-39	136	137	154	148	163	173	162	198	217	219	182	163	173	181	153	142	110	123	134	127	143	132	138	3,608	30-39
40-49	254	208	256	235	226	216	174	214	228	199	197	205	200	219	225	214	221	255	222	239	239	163	198	5,007	40-49
50-59	552	541	600	581	598	544	537	560	511	532	422	422	381	356	367	374	372	327	387	352	414	328	319	10,377	50-59
60 years old or more	452	393	463	427	392	453	450	421	482	495	477	510	509	491	524	600	583	631	696	720	793	543	604	12,109	60 years old or more
total	1,716	1,587	1,765	1,665	1,658	1,659	1,570	1,643	1,698	1,704	1,485	1,541	1,492	1,444	1,489	1,542	1,495	1,530	1,668	1,638	1,798	1,315	1,446	36,548	total

Workers' number of workplace of fatal and non-fatal accidents in hotel 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	210	200	211	200	206	219	185	191	197	200	171	153	175	157	137	173	159	154	133	143	174	139	113	4,000	9 workers or less
10-29	385	383	373	333	380	372	341	368	363	375	328	342	349	316	334	322	337	335	366	333	410	330	355	8,130	10-29
30-49	260	197	268	266	252	277	266	254	266	255	267	232	245	250	251	262	248	271	333	314	339	257	279	6,109	30-49

load																										load
natural environment	1	3		1					1	4		3	11				2	1		2					29	natural environment
other causal agent					1			1																	2	other causal agent
no causal agent									1					1	4	1			1	1	1				10	no causal agent
unclassifiable		1						1													1				3	unclassifiable
total	10	10	9	2	7	4	6	5	10	8	7	9	14	4	13	6	6	4	4	6	8	1	5	158	total	

Causal agents (small) of fatal accidents in hotel in 1999-2021

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	total	Causal (S) agents	
engine																										engine
power transmission mechanism																										power transmission mechanism
circular sawing machine																										circular sawing machine
band sawing machine																										band sawing machine
wood planer machine																										wood planer machine
hollow chisel mortiser, wood borer																										hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																										chamfering machine, router, woodworking

pressure vessel																								pressure vessel
other pressure vessels		1																					1	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			1							1													2	transmission
electric power facilities	1				1																		2	electric power facilities
other electrical equipment																								other electrical equipment
human power cranes																								human power cranes
human power hauling equipment																								human power hauling equipment
human power machine																								human power machine
hand tool																								hand tool
ladder				1		1					2	1		2		1			1	2			11	ladder

other hazards, harmful substances																									other hazards, harmful substances
metal material																									metal material
lumber, bamboo																									lumber, bamboo
stone, sand, substance																									stone, sand, substance
other materials																									other materials
load																									load
machine/equipment as load																									machine/equipment as load
natural ground, rock	1	1		1								1												4	natural ground, rock
standing tree												1												1	standing tree
water		1										1	11							2				15	water
abnormal environment																									abnormal environment
high/cold temperature environment										1														1	high/cold temperature environment
other environments		1								4							2	1						8	other environments
other causal agent					1			1																2	other causal agent
no causal agent									1					1	4	1			1	1	1			10	no causal agent
unclassifiable		1						1													1			3	unclassifiable
total	10	10	9	2	7	4	6	5	10	8	7	9	14	4	13	6	6	4	4	6	8	1	5	158	total

January	2		1				1	1	1	2	3			1	1		1						15	January	
February	1	2				2		1					1		1	2	1		2					13	February
March	3			1			1		3			1	12		2		2				2			27	March
April	2	1			1	1			2		2	1				1				1	2	1	2	17	April
May			2				2	1		2					1						1		1	10	May
June			1		2			2		3					2					2			1	13	June
July		1	1			1			1			1		1	1	2	1	3		1	1		1	16	July
August	1	2	1	1			1		1		1	2			2	1		1		1				15	August
September					1				2			2		1	2						1			9	September
October			1									1	1											3	October
November		1			2		1					1			1					1		1		8	November
December	1	3	2		1						1	1			1			1						12	December
total	10	10	9	2	7	4	6	5	10	8	7	9	14	4	13	6	6	4	4	6	8	1	5	158	total

Prefecture of fatal accidents in hotel 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	4	1	2		1				2					1			3				2		1	17	Hokkaido
Aomori											1													1	Aomori
Iwate				1									6						1					8	Iwate
Miyagi										3	1		5							1				10	Miyagi
Akita							1											1						2	Akita
Yamagata				1		1				1													1	4	Yamagata
Fukushima			1				1			1				1	1						1			6	Fukushima
Ibaraki			1									1		1										3	Ibaraki

Tochigi						1					2								1					4	Tochigi	
Gunma		1												1	2										4	Gunma
Saitama		1									1	1													3	Saitama
Chiba	1							1		1															3	Chiba
Tokyo					1		1																		2	Tokyo
Kanagawa		1	1			1																			3	Kanagawa
Niigata		2			1	1			1		1	1													7	Niigata
Toyama								1	1						1			1	1					1	6	Toyama
Ishikawa														1		1				1					3	Ishikawa
Fukui			1																						1	Fukui
Yamanashi			1				1								1										3	Yamanashi
Nagano	1	1						1	1				1	1		1								1	8	Nagano
Gifu	2					1			1																4	Gifu
Shizuoka											1							2	1		1				5	Shizuoka
Aichi	1																								1	Aichi
Mie	1		1		1														1				1		5	Mie
Shiga																								1	1	Shiga
Kyoto									1																1	Kyoto
Osaka									1						1									1	3	Osaka
Hyogo		1	1						1															1	4	Hyogo
Nara					1																				1	Nara
Wakayama					1			1		1	1				1	1									6	Wakayama
Tottori		1													1										2	Tottori
Shimane														1									1		2	Shimane

Okayama											1												1	Okayama	
Hiroshima										1														1	Hiroshima
Yamaguchi														1										1	Yamaguchi
Tokushima																									Tokushima
Kagawa																			1					1	Kagawa
Ehime		1																						1	Ehime
Kochi																									Kochi
Fukuoka									1				1											2	Fukuoka
Saga																									Saga
Nagasaki				1			1				1	1		2		1								7	Nagasaki
Kumamoto			1																		1			2	Kumamoto
Oita							1									1								2	Oita
Miyazaki																									Miyazaki
Kagoshima														1	1									2	Kagoshima
Okinawa							1				1			1			1			1				5	Okinawa
total	10	10	9	2	7	4	6	5	10	8	7	9	14	4	13	6	6	4	4	6	8	1	5	158	total

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

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