

Fatal and non-fatal accidents in other amusement service in Japan in 1999-2022

other amusement service industry Code No.140309

Type of accidents in other amusement 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	184	177	206	191	184	166	172	184	163	159	179	139	153	175	168	145	153	162	165	175	162	180	144	157	4,043
falling to same level	261	269	267	254	253	259	248	265	258	298	265	267	247	270	252	255	255	239	246	302	287	253	274	249	6,293
crash	55	55	50	51	57	51	38	48	58	61	74	56	52	61	52	57	61	45	61	56	55	45	48	55	1,302
struck by flying or falling object	29	39	35	34	43	39	33	35	35	46	41	33	45	30	37	42	32	37	51	39	41	39	34	39	908
collapse	9	5	16	10	8	18	13	19	12	14	13	15	13	15	5	13	12	16	17	10	9	7	8	11	288
crashed by	84	74	60	65	77	64	60	45	49	58	62	56	38	50	54	38	50	52	57	69	71	59	62	47	1,401
caught in/between	115	83	86	108	103	109	105	81	90	103	93	78	76	84	84	67	72	74	51	73	67	58	60	59	1,979
cut	70	70	53	60	62	82	59	59	63	72	47	54	54	52	49	40	47	39	45	33	37	28	24	30	1,229
injury to the sole of the foot		1	1		1		1	1		5	1	4			2	4	2	1		3	3	1		1	32
drown	1	2	2		1	1	1			1	1		3	1					3	1	1				19
contact to high/low-temperature	18	15	19	31	18	20	19	16	19	18	22	25	23	27	20	9	26	19	31	27	30	17	15	14	498

other equipment	168	173	171	171	176	208	212	202	193	220	217	200	173	204	197	192	191	197	188	214	204	175	189	193	4,628
temporary buildings, establishments	314	313	344	312	314	318	285	308	319	363	319	302	302	333	297	294	303	291	297	324	308	314	316	274	7,464
substance, material	35	29	37	48	40	39	36	40	36	50	46	29	32	47	37	28	35	27	36	33	31	23	14	19	827
load	80	86	100	88	94	97	113	132	163	179	152	141	129	108	77	75	96	90	89	80	88	46	73	64	2,440
environment	156	136	127	122	125	105	106	111	99	98	98	92	124	110	115	104	105	106	121	131	136	129	122	92	2,770
others	139	150	136	163	170	152	162	176	155	165	192	152	148	164	144	123	134	125	137	180	165	129	207	153	3,721
total	1,029	994	1,059	1,031	1,057	1,056	1,020	1,070	1,078	1,215	1,130	1,020	1,001	1,056	951	892	966	916	956	1,045	1,018	896	979	872	24,307

Causal agents (middle) of fatal and non-fatal accidents in other amusement 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	1		1	1		1					1		1		1							9
power transmission mechanism	9	4	7	16	8	4	8	9	11	17	8	8	3	10	5	6	8	8	6	3	7	7	4	3	179
woodworking machine	7	6	6	4	4	3	3	1	4	4	3	5	1	4	3	2	5	4	3	1	3	6	3	1	86
construction machine	3	8	4	3	3	3	1	1	3	2	1	1	3	1	4		2	1		3	1	4	2	3	57
metal manufacturing	5	3		2	1		1			3	1	2	2	3		1	1	1	3	1	1	1	2	2	36

mortiser, wood borer									1															1	
chamfering machine, router, woodworking milling machine																									
chain saw			1		1		3	1	1	2	1		1		1	1		1		1		2	1	1	19
other woodworking machines			1		1				1			2			2		1	1			1	2	1		13
leveling, transporting or loading machine					2				1	1			1		1		2	1		1		2		1	13
excavating machine			2						1	1									1		2	1	1	9	
foundation work machine																									
hardening machine																									
demolition machine																									
vehicle for high lift work														2										2	
other construction machines			2		1		1	1	1		1	1	2	1	1				1	1		1	1	16	
lathe																		1						1	
drill press, milling												1						1					1	3	

railway equipment											1									1				2	
conveyor			6		5		3	2	1	7	8	3	3	4		1	2	1	3	2	2	2	1		56
loader									1				1				1	1				1			5
straddle carrier																									
rough terrain hauler																1					2				3
other powered conveying machines			6		8		6	3	2	3	2	6	5	5	2	2	2	4	3	4	7	4	1	6	81
cars, bus, motorcycle			41		34		31	42	44	42	23	33	32	20	20	26	28	24	30	22	21	16	16	15	560
railway vehicle											1								1						2
other vehicles			19		15		9	7	9	16	17	10	8	7	17	8	7	6	8	14	16	14	7	15	229
boiler			1								1			1											3
pressure vessel					1														1			1			3
other pressure vessels					1		1	1		1				4	2		1	1		2					14
chemical facilities																									
gas welding equipment																									
arc welding equipment			1																						1
other welding equipment																									
kiln, caldron			1				1		2	2	1	1	1	2		1	1		1	2	1		2		19

industrial dryer																									
other kiln, caldron				1												1									2
transmission			1			2	2	1		1			1		3	1			1	1			1	15	
electric power facilities										1							1			1			1	4	
other electrical equipment			2			2	1	3		1	1	1		3		2	2	1					2	21	
human power cranes								1							1					1	2		3	8	
human power hauling equipment			18		13		9	9	12	14	19	17	8	16	13	11	21	11	14	17	10	6	11	11	260
human power machine			1				2	1		1		1		2	1	1		1	1					12	
hand tool			12		16		31	27	29	25	19	21	22	17	18	14	10	17	11	12	9	5	9	14	338
ladder			60		62		66	61	54	59	69	50	54	73	64	49	55	61	50	58	54	66	54	55	1,174
slinging tool											1					2			1					4	
other tools			41		40		42	58	42	56	48	44	35	40	46	40	40	45	47	66	69	41	49	50	939
other equipment, facilities			33		42		58	41	48	63	55	66	51	50	49	70	58	59	61	55	58	54	64	56	1,091
scaffolding			3		4		3	1	3	4	2	1	1		3	1	3			2	1		1		33
timbering					1																				1
stairs, landing stage			85		73		68	82	88	86	77	69	73	81	66	69	72	61	75	75	54	74	71	72	1,471
opening			1		3		4	1	3	3	2	1	2	4	4	1	1		2	2	5			2	41

roof, beam, haze, crossbeam, principal rafter			2		7		3	5	2	4	6	7	2	4	4	2	3	2	1	2	5	1	8	6	76
working platform, boot board			43		35		27	31	33	47	36	37	33	35	40	27	37	34	16	34	34	27	31	21	658
passage			111		119		105	96	110	143	110	113	114	137	113	123	117	124	131	145	143	126	137	111	2,428
building, establishment			52		33		38	49	30	41	49	34	42	39	41	37	32	36	35	29	36	38	35	31	757
other temporary buildings, establishments			47		39		37	43	50	35	37	40	35	33	26	34	38	34	37	35	30	48	33	31	742
explosive substance			1					2																	3
inflammable substance			1		2				3	2	3	1	2	2		1	1		2		2		2	1	25
inflammable gas			2		1					1		1		1		3			2	1		1			13
harmful substance			2				4			4	3		1	2	1		1	1		1	2	1			23
radiation																									
other hazards, harmful substances			7		3		6	5	1	5	3	4	1	5	5	5	4	1	4	5	6	1	2	3	76
metal material			12		13		6	14	4	11	13	3	6	8	10	7	3	12	10	10	4	3	3	5	157
lumber, bamboo			4		3		5		2	5	5	1	1	2	4	1	2	1	4	4	2	1	1		48
stone, sand, substance			2		2		1	1		2		1	1		1	1			1	1	1			1	16

other materials			6		16		14	18	26	20	19	18	20	27	16	10	24	12	13	11	14	16	6	9	315
load			90		90		102	114	148	161	136	131	120	95	72	70	86	75	80	70	77	37	62	47	1,863
machine/equipment as load			10		4		11	18	15	18	16	10	9	13	5	5	10	15	9	10	11	9	11	17	226
natural ground, rock			3		7		17	10	6	10	5	4	18	13	10	7	9	5	8	4	10	8	8	4	166
standing tree			6		2		3	2	7	4	6	1	5	2	5	1	4	2	2	2	1	4	5	4	68
water			3		2		2	1	4	2	4	1	14	2	4	2	2	1	11	8	5	3	4	1	76
abnormal environment							2		1	1	1	1				1		2	1						10
high/cold temperature environment			5		3		3	1	6		2	4	5	5	5	4	7	2	6	8	8	9	3	5	91
other environments			110		111		79	97	75	81	80	81	82	88	91	89	83	94	93	109	112	105	102	78	1,840
other causal agent			57		74		66	59	52	49	55	45	42	41	47	34	33	41	52	56	64	37	112	55	1,071
no causal agent			73		84		87	101	96	107	127	102	101	117	92	83	95	83	84	119	98	90	93	96	1,928
unclassifiable			6		12		9	16	7	9	10	5	5	6	5	6	6	1	1	5	3	2	2	2	118
total	1,029	994	1,059	1,031	1,057	1,056	1,020	1,070	1,078	1,215	1,130	1,020	1,001	1,056	951	892	966	916	956	1,045	1,018	896	979	872	24,307

Workers age of fatal and non-fatal accidents in other amusement 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	50	37	44	56	54	61	53	43	58	61	43	29	37	45	42	32	23	31	52	33	43	26	17	29	999

20-29	330	359	385	379	385	393	401	431	411	473	479	392	393	375	311	261	285	271	210	292	256	228	270	203	8,173
30-39	152	129	135	163	172	168	169	194	210	248	226	225	185	220	225	194	207	180	221	210	200	162	179	173	4,547
40-49	121	116	128	99	101	96	98	102	103	78	96	103	103	120	103	106	140	154	154	157	174	145	168	139	2,904
50-59	216	203	209	184	197	214	174	174	155	200	123	138	126	124	115	112	116	111	117	136	133	122	124	135	3,658
60 years old or more	160	150	158	150	148	124	125	126	141	155	163	133	157	172	155	187	195	169	202	217	212	213	221	193	4,026
total	1,029	994	1,059	1,031	1,057	1,056	1,020	1,070	1,078	1,215	1,130	1,020	1,001	1,056	951	892	966	916	956	1,045	1,018	896	979	872	24,307

Workers' number of workplace of fatal and non-fatal accidents in other amusement 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	209	201	196	192	179	170	180	152	182	142	150	124	156	160	130	124	155	154	153	168	146	159	141	128	3,851
10-29	298	270	347	297	294	310	322	288	294	312	283	287	285	329	327	320	325	294	323	336	335	299	335	311	7,421
30-49	170	179	154	191	233	239	225	291	242	332	294	291	266	272	204	196	212	209	204	233	229	201	218	171	5,456
50-99	135	130	135	144	151	139	143	147	170	224	222	156	151	154	157	137	134	142	153	144	168	125	154	131	3,646
100-299	134	104	122	102	117	118	90	114	133	134	141	122	105	96	101	91	99	78	87	107	102	84	104	112	2,597
300 workers or more	83	110	105	105	83	80	60	78	57	71	40	40	38	45	32	24	41	39	36	57	38	28	27	19	1,336
total	1,029	994	1,059	1,031	1,057	1,056	1,020	1,070	1,078	1,215	1,130	1,020	1,001	1,056	951	892	966	916	956	1,045	1,018	896	979	872	24,307

Month of fatal and non-fatal accidents in other amusement 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
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Yamagata	11	22	24		20		16	14	9	16	14	11	12	11	12	11	11	12	8	15	14	8	15	9	295
Fukushima	34	24	17		22		20	19	18	27	29	29	26	22	29	12	19	17	10	24	12	13	28	20	471
Ibaraki	14	17	18		12		17	18	20	8	21	23	23	18	17	15	14	22	27	32	25	14	20	22	417
Tochigi	16	14	23		18		13	18	19	30	18	29	16	20	15	12	24	19	29	20	14	21	29	15	432
Gunma	34	32	20		31		23	32	29	35	38	28	17	33	33	26	27	23	26	24	35	23	26	31	626
Saitama	25	24	23		34		35	40	41	50	53	40	49	47	32	33	41	30	39	58	48	46	51	48	887
Chiba	36	32	27		26		24	40	55	47	39	58	59	53	58	55	43	54	61	50	67	66	56	45	1,051
Tokyo	65	70	77		70		70	77	81	81	70	78	91	88	86	65	83	87	57	104	72	68	92	84	1,716
Kanagawa	46	57	46		46		43	40	58	47	46	49	41	45	49	48	45	46	35	55	51	49	69	52	1,063
Niigata	33	26	39		35		19	53	19	31	39	29	20	28	26	22	31	22	18	22	23	17	22	21	595
Toyama	6	13	13		11		13	6	5	10	14	3	10	6	5	10	11	11	9	12	10	7	10	3	198
Ishikawa	16	6	12		6		4	5	10	4	8	8	19	8	6	6	7	7	9	10	6	8	8	4	177
Fukui	8	8	5		9		6	4	8	8	8	8	7	6	12	6	7	13	6	12	8	7	9	4	169
Yamanashi	4	1	4		8		16	10	13	16	15	9	3	8	8	7	6	4	4	4	5	2	7	8	162
Nagano	28	18	23		25		23	17	22	23	21	18	15	23	13	18	20	21	25	22	20	13	18	14	440
Gifu	37	40	42		20		24	35	39	33	23	25	22	30	24	17	25	18	24	17	18	28	13	27	581
Shizuoka	35	28	34		28		44	36	36	44	73	45	41	53	30	33	26	32	24	32	28	36	30	33	801
Aichi	54	67	62		46		30	59	41	47	59	54	45	55	40	41	50	40	48	36	48	38	30	34	1,024
Mie	28	18	19		20		16	19	22	16	16	19	18	18	18	11	16	10	12	20	18	14	8	12	368
Shiga	12	7	7		4		8	2	9	10	9	7	10	10	6	8	7	6	11	6	10	9	11	7	176
Kyoto	14	10	12		20		13	17	12	10	13	11	19	15	16	15	20	8	15	28	24	16	17	17	342
Osaka	36	56	68		64		54	52	33	67	63	54	46	56	48	55	54	61	49	57	64	34	56	38	1,165

Hyogo	40	43	33		28		40	27	40	44	41	27	29	33	35	45	35	40	44	48	42	30	34	35	813
Nara	4	6	2		5		5	4	8	7	9	12	7	12	10	5	4	10	12	13	13	17	7	8	180
Wakayama	2	1	5		5		4	11	5	6	10	6	10	6	2	5	8	8	6	5	5	3	5	5	123
Tottori	3	1	2		3		4	3	5	2	6	12	9	5	3	8	5	5	4	5	1	5	7	4	102
Shimane	11	7	4		13		4	8	4	8	10	4	9	8	5	3	7	1	13	8	3	6	7	2	145
Okayama	10	11	8		9		8	7	12	18	8	11	9	7	7	11	14	14	14	14	15	6	20	10	243
Hiroshima	25	16	36		34		31	18	29	28	22	23	26	28	27	19	14	11	20	10	22	13	15	14	481
Yamaguchi	6	8	8		7		13	13	8	15	12	3	10	5	6	6	9	5	11	5	7	11	9	9	186
Tokushima	9	4	8		10		9	14	11	16	9	9	8	7	7	9	6	4	8	4	5	4	5	3	169
Kagawa	13	10	9		11		15	14	12	18	15	8	6	8	6	9	5	8	10	10	10	11	2	4	214
Ehime	15	11	16		15		13	16	12	20	10	7	14	8	5	6	7	10	10	8	7	6	10	7	233
Kochi	9	5	10		15		7	9	12	9	12	12	8	9	14	5	12	9	18	7	14	11	10	12	229
Fukuoka	34	36	40		40		45	42	40	57	50	32	34	33	45	31	46	32	35	45	36	36	39	32	860
Saga	8	12	9		8		10	11	11	11	12	8	4	8	6	5	6	8	4	4	10	11	7	4	177
Nagasaki	11	10	22		11		14	11	21	10	8	11	10	8	7	4	5	6	8	9	9	11	14	12	232
Kumamoto	41	25	28		33		34	32	15	29	22	22	23	25	16	24	23	15	24	24	13	11	6	22	507
Oita	17	20	12		12		15	23	18	18	14	14	15	14	10	10	17	16	13	13	19	12	11	11	324
Miyazaki	19	18	11		17		23	17	19	18	9	12	14	12	7	8	14	15	10	10	10	9	10	11	293
Kagoshima	23	10	27		19		21	16	16	13	13	16	13	19	17	16	16	16	17	16	14	15	21	11	365
Okinawa	5	10	10		9		9	12	10	11	4	15	10	20	12	13	9	11	11	14	18	11	12	12	248
total	1,029	994	1,059	1,031	1,057	1,056	1,020	1,070	1,078	1,215	1,130	1,020	1,001	1,056	951	892	966	916	956	1,045	1,018	896	979	872	24,307

injury to the sole of the foot																									
drown	1	2	1		1	1	1			1	1		3					3		1				16	
contact to high/low-temperature																1								1	
contact to harmful substance			1				1																	2	
electric shock		1							1															2	
explosion																1								1	
burst																									
fire			17																					17	
traffic accident (public road)	1		3	1	2	2		3			1	3				1			1		1			19	
traffic accident (others)																									
reaction to motion/improper motion																									
others	2		1		1						1	1	9	2					1					18	
unclassifiable						1					1		1											3	
total	8	8	25	7	7	8	2	9	4	6	8	9	15	3	3	2	1	6	4	5	2	1	4	2	149

Causal agents (large) of fatal accidents in other amusement 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				2			1		1		1		1					1		1				1	9
crane, conveying machine	2	1	4	1	2	2		4		3	3	3			1	1		2		1	1	1		1	33
other equipment		2			1				2	1										1					7

vehicle	1		3	1	2	1		4		2	3	3				1		2		1		1		1	26	
pressure vessel																										
chemical facilities																										
welding equipment																										
kiln, caldron																										
electric equipment		1							1																	2
human power machine, tools																										
tools		1			1				1	1										1						5
other equipments, facilities																										
temporary buildings, establishments		2	17	3	1	1		4		1	2	1	1	1	1			2	1		1		3		42	
hazards, harmful substances			1													1										2
materials				1																						1
load																										
natural environment	3	2	2		3	3	1	1	1	1		4	12	2	1		1	1	3				1		42	
other causal agent	1	1	1			1																				4
no causal agent	2										1	1	1							1						6
unclassifiable						1					1									1						3
total	8	8	25	7	7	8	2	9	4	6	8	9	15	3	3	2	1	6	4	5	2	1	4	2	149	

Causal agents (small) of fatal accidents in other amusement 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
-------------------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------

machine																									
crane																									
mobile crane																									
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane		1													1									2	
truck	1		1																					2	
forklift																									
railway equipment																									
conveyor																									
loader																									
straddle carrier																									
rough terrain hauler																						1		1	
other powered conveying machines						1				1														2	
cars, bus, motorcycle	1		3	1	2	1		3		1	1	3				1		1		1		1		1	21

May		1	1	1	2					1							1			1				8	
June					1			1	1				1		1		1			2				8	
July	1		1		1			3	1	1		1		1										10	
August							1				1		1									1	1	5	
September	1	2	17	1		1		3			1	1						2		1				30	
October	3	1		1						1		1				1			1					9	
November				1	1		1				1									1				5	
December	1	1	2			3						6							1		1			15	
total	8	8	25	7	7	8	2	9	4	6	8	9	15	3	3	2	1	6	4	5	2	1	4	2	149

Prefecture of fatal accidents in other amusement 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			2	1											1		8	
Aomori																										
Iwate			1										8				1		1				1		12	
Miyagi													4												4	
Akita														2											2	
Yamagata							1				1														2	
Fukushima									1													1			2	
Ibaraki			1	1		1			1																4	
Tochigi		1									1	1						1							4	

Shimane					1							1													2
Okayama		1				1				1															3
Hiroshima	1																								1
Yamaguchi																									
Tokushima																									
Kagawa												1													1
Ehime								1		1							1								3
Kochi						1																			1
Fukuoka						1							2							1					4
Saga																									
Nagasaki																									
Kumamoto	1				1				2																4
Oita			1		1	1																			3
Miyazaki																									
Kagoshima																									
Okinawa		1			1						1								1						4
total	8	8	25	7	7	8	2	9	4	6	8	9	15	3	3	2	1	6	4	5	2	1	4	2	149

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

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