

Fatal and non-fatal accidents in other amusement service in Japan in 1999-2021

other amusement service industry Code No.1403

Type of accidents in other amusement service 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	383	352	407	358	351	343	322	359	315	321	350	271	307	325	293	289	294	305	316	324	323	310	264	7,482	fall from height
falling to same level	895	867	859	782	840	801	771	855	772	853	798	750	736	764	727	695	723	661	668	799	740	661	718	17,735	falling to same level
crash	178	145	137	132	132	130	117	152	153	134	161	131	133	135	119	143	127	125	129	129	128	115	114	3,099	crash
struck by flying or falling object	264	273	258	197	214	202	177	188	201	178	166	152	146	122	139	144	116	129	134	125	103	88	98	3,814	struck by flying or falling object
collapse	18	12	24	22	17	25	23	26	22	22	22	26	16	25	8	17	28	21	23	17	12	14	12	452	collapse
crashed by	236	237	217	219	231	217	190	173	172	173	148	144	142	138	171	135	146	134	138	157	153	114	138	3,923	crashed by
caught in/between	236	217	189	214	201	213	183	174	179	186	184	158	145	159	146	130	137	136	107	148	139	95	120	3,796	caught in/between
cut	139	131	132	142	134	136	106	132	135	135	116	104	102	114	102	94	107	90	97	81	96	67	68	2,560	cut
injury to the sole of the foot	4	2	2	1	3	4	6	2	2	9	5	7		2	3	4	5	3	1	6	5	5	1	82	injury to the sole of the foot
drown	2	2	2		1	3	1		1	1	2	1	3	1					4	1	1			26	drown
contact to high/low-temperature	32	26	39	58	27	40	32	35	33	39	40	39	39	43	39	32	49	43	46	81	62	49	31	954	contact to high/low-temperature
contact to harmful	4	2	6	3	1	3	8	3	5	10	6	1	6	9	5	1	2	6	5	2	3	2	4	97	contact to harmful

substance																									substance
electric shock	1	1	2		1	2		1	3	3	2		1	1	2	2	1		3	2	2	1		31	electric shock
explosion			3	4				2			1	1	1	3		4	2			2	1	1		25	explosion
burst	1		1	1	1					1	1	1	1	3						2		1		14	burst
fire	1		5	1	1	4	1	1	4	2	2	1		2		1	1		2			1		30	fire
traffic accident (public road)	38	36	48	36	36	52	32	45	44	36	25	34	31	27	23	27	40	21	37	21	22	15	17	743	traffic accident (public road)
traffic accident (others)	13	8	6	4	2	4	6	2	2	9	5	7	6	4	1	11	10	3	5	8	3	2	1	122	traffic accident (others)
reaction to motion/improper motion	409	433	477	410	394	404	428	467	506	535	525	484	495	525	436	420	446	444	484	507	565	394	507	10,695	reaction to motion/improper motion
others	44	39	40	31	54	39	33	38	33	40	45	61	47	37	21	36	25	45	28	33	44	35	112	960	others
unclassifiable	17	16	9	13	10	19	12	17	5	12	6	10	3	10	8	9	12	2	5	12	4	4	2	217	unclassifiable
total	2,915	2,799	2,863	2,628	2,651	2,641	2,448	2,672	2,587	2,699	2,610	2,383	2,360	2,449	2,243	2,194	2,271	2,168	2,232	2,457	2,406	1,974	2,207	56,857	total

Causal agents (large) of fatal and non-fatal accidents in other amusement service 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	197	181	196	189	189	167	154	152	164	167	164	149	127	156	137	121	144	122	102	112	119	99	114	3,422	machine
crane, conveying machine	397	371	362	335	341	353	304	325	309	301	285	258	237	236	233	238	237	212	240	249	213	190	184	6,410	crane, conveying machine
other equipment	398	357	415	336	366	381	369	393	373	431	386	367	366	372	343	349	357	369	347	392	391	308	335	8,501	other

																									equipment
temporary buildings, establishments	772	772	793	691	710	732	685	767	729	807	739	656	684	724	667	705	721	687	706	791	728	699	700	16,665	temporary buildings, establishments
substance, material	100	111	98	119	93	105	85	105	114	86	95	63	68	78	59	59	69	55	71	64	57	40	33	1,827	substance, material
load	109	115	133	122	119	128	129	163	203	216	180	164	164	149	106	98	125	121	110	119	120	68	109	3,070	load
environment	502	455	438	436	451	415	371	391	377	359	381	356	376	384	367	322	302	327	339	344	364	306	306	8,669	environment
others	440	437	428	400	382	360	351	376	318	332	380	370	338	350	331	302	316	275	317	386	414	264	426	8,293	others
total	2,915	2,799	2,863	2,628	2,651	2,641	2,448	2,672	2,587	2,699	2,610	2,383	2,360	2,449	2,243	2,194	2,271	2,168	2,232	2,457	2,406	1,974	2,207	56,857	total

Causal agents (middle) of fatal and non-fatal accidents in other amusement service 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	2	3	1		1	1		1					1		1		1					1	14	engine
power transmission mechanism	12	11	9	22	12	6	9	12	15	20	10	13	7	12	6	9	11	9	8	5	7	8	5	238	power transmission mechanism
woodworking machine	26	24	29	27	25	17	18	18	30	18	23	19	15	37	21	24	22	15	18	17	17	24	19	503	woodworking machine
construction machine	12	21	25	19	9	20	22	13	21	16	19	11	16	13	19	13	11	18	5	10	11	10	11	345	construction machine
metal manufacturing machine	11	5	1	4	5	3	1	4	2	7	1	6	5	5	1	4	4	1	3	3	6	1	3	86	metal manufacturing machine

general machine	135	118	129	116	138	120	103	105	95	106	111	100	84	88	90	70	94	77	68	75	76	52	74	2,224	general machine	
mobile silviculture machine																	2	1		2	2	4	1	12	mobile silviculture machine	
crane	8	10	10	7	12	7	2	7	9	5	4	4	4	2	3	4	7	6	3	5	2	6		127	crane	
conveying machine	179	169	145	126	140	124	116	136	101	120	102	100	77	83	77	82	90	77	85	87	81	72	58	2,427	conveying machine	
vehicle	210	192	207	202	189	222	186	182	199	176	179	154	156	151	153	152	140	129	152	157	130	112	126	3,856	vehicle	
pressure vessel	2	2	1	2	3	1	2	1		2	2		1	5	3		1	1	1	3		2		35	pressure vessel	
chemical facilities																										chemical facilities
welding equipment			2				1	1																4	welding equipment	
kiln, caldron			8	3	1		1	2	2	3	1	1	2	4		1	2	3	1	2	2		2	41	kiln, caldron	
electric equipment	5	4	4	4	1	3	5	3	4	2	4	3	2	2	5	7	3	4	2	2	5	1	2	77	electric equipment	
human power machine, tools	72	81	74	74	70	85	72	80	79	83	71	66	59	61	61	52	66	58	60	58	64	35	42	1,523	human power machine, tools	
tools	247	206	250	187	226	207	214	240	222	252	230	204	221	227	210	195	203	207	203	253	234	187	203	5,028	tools	
other equipments, facilities	72	64	76	66	65	85	74	66	66	89	78	93	81	73	64	94	82	96	80	74	86	83	86	1,793	other equipments, facilities	
temporary buildings, establishments	772	772	793	691	710	732	685	767	729	807	739	656	684	724	667	705	721	687	706	791	728	699	700	16,665	temporary buildings, establishments	

hazards, harmful substances	14	8	16	20	8	18	15	12	10	15	11	8	8	16	9	12	14	7	14	11	11	5	5	267	hazards, harmful substances
materials	86	103	82	99	85	87	70	93	104	71	84	55	60	62	50	47	55	48	57	53	46	35	28	1,560	materials
load	109	115	133	122	119	128	129	163	203	216	180	164	164	149	106	98	125	121	110	119	120	68	109	3,070	load
natural environment	502	455	438	436	451	415	371	391	377	359	381	356	376	384	367	322	302	327	339	344	364	306	306	8,669	natural environment
other causal agent	233	222	215	166	183	168	151	159	121	120	124	108	119	108	109	84	90	106	128	125	127	65	161	3,192	other causal agent
no causal agent	173	181	190	201	177	167	186	197	185	194	239	244	210	226	214	203	217	163	184	252	282	196	262	4,743	no causal agent
unclassifiable	34	34	23	33	22	25	14	20	12	18	17	18	9	16	8	15	9	6	5	9	5	3	3	358	unclassifiable
total	2,915	2,799	2,863	2,628	2,651	2,641	2,448	2,672	2,587	2,699	2,610	2,383	2,360	2,449	2,243	2,194	2,271	2,168	2,232	2,457	2,406	1,974	2,207	56,857	total

Causal agents (small) of fatal and non-fatal accidents in other amusement service 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			3				1		1					1		1		1					1	9	engine
power transmission mechanism			9		12		9	12	15	20	10	13	7	12	6	9	11	9	8	5	7	8	5	187	power transmission mechanism
circular sawing machine			12		7		1	3	4	6	4	3		8	4	3	7	2	4		3	2	2	75	circular sawing machine
band sawing machine																	1						1	2	band sawing machine
wood planer machine			1		3		1			1	1			1			1			1		1		11	wood planer machine





machine																								machine	
other mobile silviculture machine																1					2	4	1	8	other mobile silviculture machine
crane																					1			1	crane
mobile crane			1		2			1	1	1	2	1	1			2		1	1	1		1		16	mobile crane
derrick crane																									derrick crane
elevator, lift			7		3			4	3	2		1			1	1	4	2		2	1	1		32	elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola								1		1														2	gondola
lumberyard equipment, logging cableway										1		1												2	lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane			2		7		2	2	4	1	1	1	3	2	2	1	3	3	2	2		4		42	other powered crane
truck			44		39		38	42	25	37	27	25	23	30	34	28	34	28	30	40	31	26	18	599	truck
forklift			1				2		2		1	1	2	1		1		3				2	1	17	forklift
railway equipment			1		1			1		1		1							1		1			7	railway equipment
conveyor			8		6		5	4	3	9	9	7	4	4		2	4	2	6	3	3	2	4	85	conveyor
loader					1		1	1	1				4	2	1	2	2	2	2		2	2		23	loader
straddle carrier								1																1	straddle carrier
rough terrain hauler			1		1		1	1		1		1	2		1		2	1	3		2	1		18	rough terrain hauler
other powered			90		92		69	86	70	72	65	65	42	46	41	49	48	41	43	44	42	39	35	1,079	other powered

conveying machines																								conveying machines	
cars, bus, motorcycle			106		88		89	89	102	98	73	84	78	74	62	77	77	58	78	74	68	49	63	1,487	cars, bus, motorcycle
railway vehicle											1	1							1					3	railway vehicle
other vehicles			101		101		97	93	97	78	105	69	78	77	91	75	63	71	73	83	62	63	63	1,540	other vehicles
boiler			1		1		1				2			1										6	boiler
pressure vessel					1					1									1			1		4	pressure vessel
other pressure vessels					1		1	1		1			1	4	3		1	1		3		1		18	other pressure vessels
chemical facilities																									chemical facilities
gas welding equipment								1																1	gas welding equipment
arc welding equipment			2				1																	3	arc welding equipment
other welding equipment																									other welding equipment
kiln, caldron			8				1	1	2	3	1	1	2	3		1	1	1	1	2	1		2	31	kiln, caldron
industrial dryer																		2						2	industrial dryer
other kiln, caldron					1		1						1			1				1				5	other kiln, caldron
transmission			1				2	2	1		1			1	1	4	1			1	2	1	2	20	transmission
electric power facilities											1	1	1			1		2			1			7	electric power facilities
other electrical equipment			3		1		3	1	3	2	2	2	1	1	4	2	2	2	2	1	2			34	other electrical equipment
human power			2		1		1		2	1	1	2	1	1	1	1		1			4	3	2	24	human power

cranes																										cranes
human power hauling equipment			32		32		17	23	21	27	32	24	21	30	27	19	39	23	28	30	33	18	16	492	human power hauling equipment	
human power machine			3		3		1	6	4	2	1	2	2		2	3	2		2	1	1	1	1	37	human power machine	
hand tool			37		34		53	51	52	53	37	38	35	30	31	29	25	34	30	27	26	13	23	658	hand tool	
ladder			113		83		96	110	97	103	104	79	101	116	91	98	94	92	90	95	95	99	87	1,843	ladder	
slinging tool					1						1				1	2	1		1		1		1	9	slinging tool	
other tools			137		142		118	130	125	149	125	125	120	111	118	95	108	115	112	158	138	88	115	2,329	other tools	
other equipment, facilities			76		65		74	66	66	89	78	93	81	73	64	94	82	96	80	74	86	83	86	1,506	other equipment, facilities	
scaffolding			5		4		3	1	5	5	3	3	1	1	4	1	3	1	2	2	2		2	48	scaffolding	
timbering					1		1																	2	timbering	
stairs, landing stage			142		114		112	137	145	143	121	104	122	136	101	117	129	123	128	130	104	109	113	2,330	stairs, landing stage	
opening			4		4		5	5	5	3	4	1	3	5	6	2	4	1	3	5	8	2	1	71	opening	
roof, beam, haze, crossbeam, principal rafter			2		9		6	9	7	8	14	9	6	8	6	4	8	3	3	4	8	3	8	125	roof, beam, haze, crossbeam, principal rafter	
working platform, boot board			110		86		90	80	94	124	110	86	73	96	97	91	102	86	95	127	95	69	77	1,788	working platform, boot board	
passage			331		319		295	321	307	369	305	290	310	328	316	344	328	333	334	387	380	363	369	6,329	passage	
building, establishment			98		75		79	107	77	83	92	75	90	70	76	64	78	74	69	61	68	77	64	1,477	building, establishment	
other temporary buildings, establishments			101		98		95	106	89	72	90	88	79	80	61	82	69	66	72	75	63	76	66	1,528	other temporary buildings, establishments	

explosive substance			2				2	1														5	explosive substance		
inflammable substance			3		2		1	2	3	4	3	2	3	3		1	2		4		2	2	2	39	inflammable substance
inflammable gas			2		1		1			1		1	1	1	4	1	1	3	1		1		19	inflammable gas	
harmful substance			2		1		5		2	4	3	1	4	3	1	1	1	2		1	2	1	1	35	harmful substance
radiation																									radiation
other hazards, harmful substances			7		4		8	8	4	6	5	4	1	9	7	6	10	4	7	9	7	1	2	109	other hazards, harmful substances
metal material			18		23		14	24	15	18	21	7	9	15	12	9	8	15	15	17	8	7	4	259	metal material
lumber, bamboo			14		13		16	14	6	13	13	4	6	7	6	8	6	11	13	10	4	6	7	177	lumber, bamboo
stone, sand, substance			9		6		3	3	5	3	5	2	9	2	5	2	3	1	3	5	2		1	69	stone, sand, substance
other materials			41		43		37	52	78	37	45	42	36	38	27	28	38	21	26	21	32	22	16	680	other materials
load			121		110		115	143	186	196	162	153	153	132	99	91	114	105	100	106	109	58	98	2,351	load
machine/equipment as load			12		9		14	20	17	20	18	11	11	17	7	7	11	16	10	13	11	10	11	245	machine/equipment as load
natural ground, rock			177		216		145	146	149	157	157	154	164	149	125	96	94	92	107	57	88	77	85	2,435	natural ground, rock
standing tree			48		44		44	44	57	51	53	34	43	51	57	44	40	36	40	56	48	43	51	884	standing tree
water			5		8		5	4	8	5	7	6	17	4	9	3	5	3	13	9	6	4	5	126	water
abnormal environment							2		1	5	1	2	1	2		1		2	4		1	1		23	abnormal environment
high/cold temperature environment			10		6		8	6	19	11	6	16	16	16	19	22	18	19	14	48	29	35	15	333	high/cold temperature environment

other environments			198		177		167	191	143	130	157	144	135	162	157	156	145	175	161	174	192	146	150	3,060	other environments
other causal agent			215		183		151	159	121	120	124	108	119	108	109	84	90	106	128	125	127	65	161	2,403	other causal agent
no causal agent			190		177		186	197	185	194	239	244	210	226	214	203	217	163	184	252	282	196	262	4,021	no causal agent
unclassifiable			23		22		14	20	12	18	17	18	9	16	8	15	9	6	5	9	5	3	3	232	unclassifiable
total			2,863		2,651		2,448	2,672	2,587	2,699	2,610	2,383	2,360	2,449	2,243	2,194	2,271	2,168	2,232	2,457	2,406	1,974	2,207	45,874	total

Workers age of fatal and non-fatal accidents in other amusement service 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	85	67	74	98	93	101	80	71	89	81	64	45	77	83	90	67	68	65	76	82	67	56	46	1,725	19 years old or less
20-29	568	574	629	568	546	569	546	564	531	597	641	548	555	526	457	418	437	428	374	466	463	339	418	11,762	20-29
30-39	395	336	332	337	357	350	331	383	390	404	413	399	315	371	344	321	348	282	346	346	323	251	280	7,954	30-39
40-49	564	518	493	417	396	412	332	386	379	301	368	347	340	368	313	327	364	353	347	370	361	298	337	8,691	40-49
50-59	920	923	948	853	895	878	813	867	794	830	613	599	540	524	490	451	456	437	411	487	437	389	412	14,967	50-59
60 years old or more	383	381	387	355	364	331	346	401	404	486	511	445	533	577	549	610	598	603	678	706	755	641	714	11,758	60 years old or more
total	2,915	2,799	2,863	2,628	2,651	2,641	2,448	2,672	2,587	2,699	2,610	2,383	2,360	2,449	2,243	2,194	2,271	2,168	2,232	2,457	2,406	1,974	2,207	56,857	total

Workers' number of workplace of fatal and non-fatal accidents in other amusement service 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	281	268	267	261	259	231	241	220	256	205	204	176	214	229	181	174	212	201	199	216	204	202	184	5,085	9 workers or less
10-29	375	373	447	397	391	406	413	398	399	433	394	393	382	443	429	416	437	391	444	470	460	408	462	9,561	10-29
30-49	275	324	325	366	414	480	391	517	450	557	491	462	443	446	392	409	402	401	419	426	413	380	400	9,583	30-49





Mie	98	75	108		86		68	72	62	82	67	65	67	58	56	57	62	47	53	73	55	46	47	1,404	Mie
Shiga	44	48	43		43		40	28	31	35	39	36	43	43	30	40	29	30	37	17	33	30	22	741	Shiga
Kyoto	35	35	46		46		36	43	31	27	29	22	39	32	30	29	35	22	27	44	42	30	39	719	Kyoto
Osaka	94	116	148		132		116	112	96	122	115	90	95	113	91	97	98	113	97	109	113	83	110	2,260	Osaka
Hyogo	161	163	148		130		119	128	145	133	117	95	113	104	106	134	108	106	118	128	122	95	108	2,581	Hyogo
Nara	41	52	38		41		31	38	48	38	32	43	42	39	39	25	35	33	33	35	36	25	29	773	Nara
Wakayama	22	19	31		19		14	20	23	18	20	19	18	21	5	11	18	20	18	11	17	12	9	365	Wakayama
Tottori	9	6	6		5		6	6	7	4	8	14	13	7	6	10	6	9	10	6	4	9	9	160	Tottori
Shimane	17	11	14		17		8	16	11	10	13	9	11	10	6	4	10	2	14	11	5	7	10	216	Shimane
Okayama	51	57	39		48		33	29	36	37	37	27	24	23	29	32	29	27	31	40	31	23	36	719	Okayama
Hiroshima	65	55	74		58		51	49	53	48	46	36	42	37	41	39	27	24	31	27	41	27	38	909	Hiroshima
Yamaguchi	35	27	23		25		33	28	17	26	19	10	28	17	11	12	19	9	16	18	19	20	15	427	Yamaguchi
Tokushima	27	24	27		28		14	20	18	22	15	15	11	11	11	9	9	10	14	5	9	8	6	313	Tokushima
Kagawa	40	29	28		30		27	29	19	34	27	19	17	19	14	16	14	20	22	16	22	17	8	467	Kagawa
Ehime	39	29	29		35		26	31	24	35	25	15	26	20	20	14	14	18	20	14	18	12	16	480	Ehime
Kochi	29	16	24		29		14	24	24	23	21	27	23	18	22	16	30	23	23	12	24	15	23	460	Kochi
Fukuoka	104	90	100		100		88	113	81	103	101	72	87	95	104	77	91	70	77	85	68	78	69	1,853	Fukuoka
Saga	22	26	24		19		18	17	28	20	25	17	12	16	19	14	19	18	16	15	20	13	11	389	Saga
Nagasaki	30	22	38		29		28	41	37	26	28	17	22	26	15	13	27	27	24	26	25	24	24	549	Nagasaki
Kumamoto	73	55	69		60		60	55	50	51	43	43	43	44	42	40	54	34	44	50	24	24	26	984	Kumamoto
Oita	47	46	38		25		31	41	29	36	30	29	22	23	22	19	22	33	24	23	28	19	23	610	Oita
Miyazaki	45	37	23		37		39	45	39	32	22	27	29	28	17	26	34	24	23	28	24	24	22	625	Miyazaki
Kagoshima	43	35	45		47		44	26	40	33	31	36	24	42	31	28	33	36	28	33	28	33	36	732	Kagoshima
Okinawa	24	29	32		30		28	31	26	26	14	29	21	37	20	25	27	19	23	30	32	25	21	549	Okinawa

total	2,915	2,799	2,863	2,651	2,448	2,672	2,587	2,699	2,610	2,383	2,360	2,449	2,243	2,194	2,271	2,168	2,232	2,457	2,406	1,974	2,207	51,588	total
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Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. 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.htm> (MHLW, Japan)

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 Fatal accidents in other amusement service in Japan in 1999-2021

other amusement service industry Code No.1403

Type of fatal accidents in other amusement service 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	4	3	3	6	7	4		6	3	4	4	4	4	3	2	5	1	3	1	6	4	3	4	84	fall from height
falling to same level		2	2	5	3	1			1			1		1	1		1			1	1	1	1	22	falling to same level
crash		1	1	1					1			1												5	crash
struck by flying or falling object	1			1							1										1		1	5	struck by flying or falling object
collapse	1						1				1	4		1					1					9	collapse
crashed by	1	1	1	2		2	1	2		2	1	1		2	4			2	1		1		1	25	crashed by
caught in/between	2	3		1		1	1	1		2	3	2	1	1	1			3	1					23	caught in/between
cut											1										1			2	cut







load																1								1	load
natural environment	4	2	3		4	6	2	1	2	3	3	7	12	6	5		1	1	5	2	3		2	74	natural environment
other causal agent	1	1	1	1		1	1																	6	other causal agent
no causal agent	2								1		1	1	1						1					7	no causal agent
unclassifiable						1					1						1		1					4	unclassifiable
total	14	15	32	19	14	14	6	12	8	9	15	19	19	10	9	7	3	8	9	9	11	6	7	275	total

Causal agents (small) of fatal accidents in other amusement service 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	engine	
power transmission mechanism											1							1							2	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











other hazards, harmful substances																									other hazards, harmful substances
metal material				1																				1	metal material
lumber, bamboo																								1	lumber, bamboo
stone, sand, substance																									stone, sand, substance
other materials																									other materials
load																1								1	load
machine/equipment as load																									machine/equipment as load
natural ground, rock					1				1		1			1										4	natural ground, rock
standing tree	1		2		1	2	1			2	2	1		2	3					1	1		1	20	standing tree
water	1	2	1		1	2	1		1	1		1	11						4					26	water
abnormal environment																									abnormal environment
high/cold temperature environment												1						1				2		4	high/cold temperature environment
other environments	2				1	2		1				4	1	3	2			1	1	1			1	20	other environments
other causal agent	1	1	1	1		1	1																	6	other causal agent
no causal agent	2								1		1	1	1							1				7	no causal agent
unclassifiable						1					1						1			1				4	unclassifiable
total	14	15	32	19	14	14	6	12	8	9	15	19	19	10	9	7	3	8	9	9	11	6	7	275	total



January	1		3			1				1	2	1	1		3	2		1	1	2	1		1	21	January
February			2	1	1	2			1		3		1	1					2				2	16	February
March	2	3		1	1	1	1	1		2	4		13		1			2	1			2		35	March
April		2	1	1	2	1		1	2			1		2	1		1		1		1			17	April
May	1	1	1	2	3	1			1	1		1		1			1	1		1	1	2	1	20	May
June	1	1		1	1		1	2	1		1		1	2	1		1			2	1		1	18	June
July	1		4	2	3		1	3	1	1		3		1	1	3			1		2	1		28	July
August	1		1	1	1	1	1		2		1	1	1					1					1	13	August
September	2	3	18	3		3		4			2	3	1					2		1	2			44	September
October	4	3		3	1	1	1			1	1	3	1	1	1	1			1	2	2		1	28	October
November		1		1	1		1	1		2	1			2		1		1	1	1		1		15	November
December	1	1	2	3		3				1		6			1				1		1			20	December
total	14	15	32	19	14	14	6	12	8	9	15	19	19	10	9	7	3	8	9	9	11	6	7	275	total

Prefecture of fatal accidents in other amusement service 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	1	1		2	1	1		2			2	2			1	1		1		1	2		1	19	Hokkaido	
Aomori																										Aomori
Iwate			1										8				1		1				1	12	Iwate	
Miyagi													4											4	Miyagi	
Akita			1											2										3	Akita	
Yamagata							1	1			1										1			4	Yamagata	
Fukushima			1						1					1								1	1	5	Fukushima	
Ibaraki			1	1		1	1		1			2				1				1	1		1	11	Ibaraki	



Okayama		1				1	1			2													5	Okayama	
Hiroshima	2													1									3	Hiroshima	
Yamaguchi						1							1										2	Yamaguchi	
Tokushima		1			1																		2	Tokushima	
Kagawa											1												1	Kagawa	
Ehime								1		1			1					1					4	Ehime	
Kochi					1	1				1													3	Kochi	
Fukuoka				1		1						1	2						1	1	1	1	9	Fukuoka	
Saga																								Saga	
Nagasaki																								Nagasaki	
Kumamoto	2	1		1				2					1										7	Kumamoto	
Oita			1		1	1																	3	Oita	
Miyazaki		1																		1	1		3	Miyazaki	
Kagoshima																				1			1	Kagoshima	
Okinawa		1	1		1						1	1							1				6	Okinawa	
total	14	15	32	19	14	14	6	12	8	9	15	19	19	10	9	7	3	8	9	9	11	6	7	275	total

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

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