

Industrial accidents in park and amusement park in Japan in 1999-2020

park and amusement park industry Code No.140302

Type of accidents in park and amusement park 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	24	30	36	37	20	25	19	29	26	25	38	21	33	30	21	28	24	28	32	39	49	32
falling to same level	38	31	67	43	44	38	34	43	28	40	54	35	47	47	53	48	52	53	70	76	66	53
crash	8	6	13	13	10	13	15	5	9	7	12	10	16	13	6	12	17	16	11	13	14	11
struck by flying or falling object	7	8	12	9	6	9	8	5	6	6	7	4	7	12	6	7	9	9	6	6	4	5
collapse	3	3	4	5	1	1	1	2	4	2	0	6	0	1	0	1	2	0	1	4	0	0
crashed by	7	5	10	16	11	10	9	4	9	11	8	11	10	7	9	18	24	14	12	20	15	9
caught in/between	13	21	19	14	20	17	12	12	17	16	15	10	6	19	15	15	11	13	13	14	18	8
cut	13	8	15	19	6	5	3	9	7	11	12	5	3	11	11	7	13	12	13	9	10	10
injury to the sole of the foot	1	0	0	-	0	-	0	0	1	0	0	1	0	0	1	0	2	1	0	1	1	1
drown	0	0	0	-	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
contact to high/low-temperature	6	5	14	10	2	5	1	9	2	6	4	1	6	4	5	4	5	14	8	11	9	7
contact to harmful substance	0	1	0	-	0	-	0	1	1	0	0	0	0	1	1	0	2	0	1	0	0	0
electric shock	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
explosion	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
burst	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
fire	0	0	0	-	0	-	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
traffic accident (public road)	5	3	6	-	0	-	1	0	2	1	1	1	1	3	1	0	0	2	2	1	3	1
traffic accident (others)	0	0	0	-	0	-	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0
reaction to motion/improper motion	17	19	25	22	23	23	28	14	18	30	61	40	63	72	55	54	65	88	112	107	170	55
others	3	4	4	3	2	2	6	3	0	4	6	30	8	4	0	3	3	5	5	3	7	6

unclassifiable	1	0	0	1	0	1	1	1	0	0	1	1	1	1	1	2	2	0	2	2	0	1
total	146	144	225	192	145	150	138	137	130	160	219	176	201	226	185	199	234	255	289	307	367	199

Causal agents (middle) of industrial accidents in park and amusement park 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	1	1	0	1	1	1	0	0	2	1	0	0	0	1	0	1	2	0	1	0	0	0
woodworking machine	4	3	2	4	1	1	1	2	2	3	5	1	0	6	4	1	4	3	3	3	3	4
construction machine	0	2	3	1	0	-	0	0	0	3	2	0	1	0	2	1	0	3	3	0	0	0
metal manufacturing machine	2	1	0	1	0	-	0	2	0	0	0	0	1	0	0	1	0	0	0	0	0	0
general machine	7	4	6	8	4	8	4	6	6	6	4	6	1	6	4	5	6	6	8	2	3	4
mobile silviculture machine																	0	0	0	0	0	0
crane	1	0	1	1	0	-	0	0	2	0	0	0	0	0	1	0	0	1	0	0	0	0
conveying machine	5	7	8	7	6	4	5	4	4	4	5	4	1	6	3	3	2	9	7	7	2	5
vehicle	10	16	19	8	11	10	9	5	7	8	12	6	5	3	12	10	10	8	8	13	13	5
pressure vessel	0	0	0	1	0	-	1	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
welding equipment	0	0	0	-	0	-	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron	0	0	5	-	0	-	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0
electric equipment	0	1	0	-	0	-	0	0	0	1	0	1	1	0	1	2	0	1	1	0	1	0
human power machine, tools	8	4	16	13	14	7	7	4	6	13	11	6	10	10	8	5	10	13	14	11	18	7
tools	14	14	20	13	7	14	6	18	12	18	15	14	24	17	15	14	16	15	21	36	32	20
other equipments, facilities	11	6	17	12	6	12	6	8	2	3	5	5	9	5	5	7	6	10	11	6	9	15
temporary buildings,	54	38	68	59	53	54	43	45	44	49	67	43	68	76	52	61	68	74	86	89	82	68

establishments																							
hazards, harmful substances	3	2	1	5	1	2	0	2	3	1	0	0	1	1	1	1	2	1	1	0	1	1	
materials	3	12	5	6	6	5	4	2	6	1	6	3	0	6	3	2	4	2	3	7	7	3	
load	6	5	9	9	6	2	6	7	6	10	6	6	11	13	7	7	8	10	10	11	16	5	
natural environment	10	11	19	29	11	15	14	15	13	17	20	11	16	22	21	17	16	28	30	34	40	20	
other causal agent	3	5	17	7	9	7	11	10	9	12	30	11	17	19	12	9	22	39	54	33	39	7	
no causal agent	2	11	9	6	8	7	21	5	6	9	30	53	34	31	34	48	55	29	26	53	99	35	
unclassifiable	2	1	0	1	1	1	0	0	0	1	1	6	0	3	0	4	3	3	2	2	2	0	
total	146	144	225	192	145	150	138	137	130	160	219	176	201	226	185	199	234	255	289	307	367	199	

Causal agents (small) of industrial accidents in park and amusement park in 1999-2020

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
engine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism			0		1		0	0	2	1	0	0	0	1	0	1	2	0	1	0	0	0
circular sawing machine			2		0		1	1	0	2	1	0	0	2	3	0	1	0	1	0	1	0
band sawing machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wood planer machine			0		1		0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1
hollow chisel mortiser, wood borer			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
chamfering machine, router, woodworking milling machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw			0		0		0	0	0	0	3	0	0	2	1	1	1	3	1	2	0	2
other woodworking machines			0		0		0	1	2	1	1	1	0	1	0	0	1	0	1	0	2	1
leveling, transporting or loading machine			1		0		0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0
excavating machine			0		0		0	0	0	1	0	0	0	0	0	0	0	1	3	0	0	0





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			5	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
industrial dryer			0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
electric power facilities			0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0
other electrical equipment			0	0	0	0	0	1	0	0	0	0	0	2	0	0	1	0	1	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			11	8	6	3	4	6	5	4	7	8	6	2	7	7	7	6	15	4		
human power machine			0	0	0	0	1	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0
hand tool			5	6	1	1	1	6	6	1	3	2	2	3	2	6	6	5	3	3		
ladder			11	3	5	14	9	9	8	7	12	7	7	10	9	7	11	13	16	14		
slinging tool			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other tools			9	4	1	4	3	9	7	7	12	10	8	4	7	8	10	23	16	6		
other equipment, facilities			17	6	6	8	2	3	5	5	9	5	5	7	6	10	11	6	9	15		
scaffolding			1	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	0	0		
timbering			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stairs, landing stage			9	10	10	13	11	11	13	3	17	21	10	14	20	18	20	19	18	16		
opening			2	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	1		
roof, beam, haze, crossbeam, principal rafter			0	1	1	0	1	0	2	0	2	1	1	0	1	1	1	1	2	0		
working platform, boot board			5	8	3	1	3	11	6	6	5	4	4	12	13	5	9	13	9	9		
passage			34	18	12	13	10	12	21	10	14	26	24	23	16	29	38	30	31	32		
building, establishment			10	9	5	8	11	6	16	8	20	8	8	1	8	10	7	11	7	6		



19 years old or less	12	6	11	17	12	15	9	4	4	6	5	4	9	6	8	8	15	7	6	15	13	10
20-29	44	55	89	67	53	53	55	36	42	51	73	64	83	76	61	67	78	88	95	101	136	42
30-39	18	8	26	29	23	27	19	27	28	26	53	38	33	49	32	30	41	39	51	47	72	27
40-49	15	19	23	19	14	10	13	20	14	12	24	23	17	25	15	20	40	38	33	37	38	23
50-59	20	20	36	29	17	21	21	26	23	35	23	22	27	32	36	24	25	34	38	39	36	34
60 years old or more	37	36	40	31	26	24	21	24	19	30	41	25	32	38	33	50	35	49	66	68	72	63
total	146	144	225	192	145	150	138	137	130	160	219	176	201	226	185	199	234	255	289	307	367	199

Workers' number of workplace of industrial accidents in park and amusement park 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	20	16	18	21	16	14	6	15	12	14	15	10	10	15	11	11	10	12	14	13	14	6
10-29	17	32	25	33	31	20	13	17	21	24	23	21	15	19	15	17	28	23	34	31	29	30
30-49	15	13	22	15	13	26	16	12	8	19	18	20	16	12	13	22	17	21	20	23	20	20
50-99	21	27	21	22	13	15	19	19	12	19	29	12	29	19	29	22	13	27	22	20	30	19
100-299	27	20	40	28	21	25	27	23	25	21	27	16	12	27	19	23	29	30	23	27	19	28
300 workers or more	46	36	99	73	51	50	57	51	52	63	107	97	119	134	98	104	137	142	176	193	255	96
total	146	144	225	192	145	150	138	137	130	160	219	176	201	226	185	199	234	255	289	307	367	199

Month of industrial accidents in park and amusement park 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	8	8	23	13	11	9	16	10	4	13	13	10	12	15	25	19	25	25	21	24	23	23
February	15	8	10	23	9	8	4	12	10	26	9	14	15	16	5	22	17	12	23	27	28	38
March	17	9	23	18	12	14	18	15	9	14	13	13	10	20	13	12	17	18	27	16	26	10
April	17	13	15	16	13	12	9	4	5	11	25	14	13	23	22	17	21	25	21	19	34	6
May	10	9	11	15	13	17	9	11	16	9	23	19	13	14	11	17	22	24	34	25	36	8
June	14	12	17	15	12	12	5	16	14	8	24	21	11	19	18	14	13	15	24	26	23	12
July	12	11	24	16	14	11	12	9	15	17	18	13	17	22	20	19	22	19	26	39	26	18
August	14	18	27	16	19	15	18	18	18	14	21	19	22	23	21	22	19	29	33	29	42	18
September	5	22	16	12	9	15	11	17	9	10	15	10	14	11	12	20	21	23	18	30	46	13
October	16	14	16	20	16	10	12	11	10	11	23	16	25	19	13	7	22	23	23	27	27	15
November	9	10	23	15	9	10	18	7	9	14	14	16	31	24	13	18	21	23	19	23	26	22
December	9	10	20	13	8	17	6	7	11	13	21	11	18	20	12	12	14	19	20	22	30	16



total	146	144	225	192	145	150	138	137	130	160	219	176	201	226	185	199	234	255	289	307	367	199
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Prefecture of industrial accidents in park and amusement park 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	7	10	7		5		10	5	8	6	22	9	3	9	7	6	8	7	8	6	9	1
Aomori	0	0	0		1		0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	1
Iwate	0	0	9		1		0	0	0	1	1	3	0	0	2	2	0	2	1	3	0	0
Miyagi	3	3	3		2		1	0	1	1	2	4	1	0	0	2	0	0	0	0	1	0
Akita	1	1	1		2		1	0	0	0	0	1	0	1	1	0	1	0	0	0	0	1
Yamagata	1	0	0		0		0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0
Fukushima	2	7	4		1		1	1	0	0	0	2	0	1	0	0	0	2	2	4	0	2
Ibaraki	1	5	0		0		1	1	0	2	1	1	1	1	3	0	0	2	4	2	2	2
Tochigi	3	4	4		2		3	10	3	3	3	3	2	8	5	7	6	5	5	5	2	7
Gunma	2	0	1		1		1	4	2	5	6	4	6	1	4	7	1	6	4	3	2	5
Saitama	6	0	1		4		2	3	5	4	7	6	4	4	5	2	3	4	4	6	6	4
Chiba	35	30	88		39		40	32	34	49	90	85	103	102	68	73	98	96	133	151	215	52
Tokyo	4	9	12		8		3	5	7	9	11	3	9	4	5	5	3	10	9	8	9	10
Kanagawa	3	2	6		3		2	3	6	4	2	6	5	6	7	9	9	9	7	9	10	15
Niigata	1	2	1		0		0	3	3	1	0	2	1	1	3	1	0	2	1	1	1	1
Toyama	1	1	1		1		0	0	0	2	0	2	1	0	1	2	0	1	4	0	2	3
Ishikawa	1	5	2		0		1	2	0	0	0	1	1	1	0	1	0	2	1	2	1	0
Fukui	1	0	0		0		0	1	0	1	1	0	1	0	0	1	0	0	2	1	0	0
Yamanashi	0	0	1		2		1	1	1	2	1	0	1	2	1	0	4	0	0	4	0	1
Nagano	3	3	3		1		1	1	1	3	0	2	0	2	0	2	1	0	3	1	1	5
Gifu	5	3	2		5		4	1	1	4	2	1	2	1	1	2	0	2	2	3	3	4
Shizuoka	1	5	5		4		7	3	4	8	10	4	3	2	7	9	5	6	8	6	11	2
Aichi	4	3	1		1		3	5	2	3	1	3	1	2	3	6	9	6	6	7	4	8
Mie	5	0	4		1		4	3	1	8	8	4	8	6	10	11	5	7	14	10	9	7
Shiga	3	1	0		0		3	0	1	1	3	1	2	4	7	3	1	0	0	0	3	3
Kyoto	1	0	1		1		0	2	1	1	1	2	0	2	0	2	3	0	3	1	0	1
Osaka	7	7	13		15		17	13	11	10	13	4	17	21	15	14	15	24	21	22	23	19
Hyogo	10	9	12		13		5	2	8	6	5	2	6	7	4	7	1	4	7	6	7	5
Nara	0	0	0		0		0	1	3	0	0	2	2	3	1	1	1	0	0	0	1	0
Wakayama	1	0	1		4		3	1	2	1	2	0	1	2	1	2	0	2	3	2	2	1
Tottori	0	0	0		1		1	1	0	0	2	0	0	1	0	0	0	0	0	1	2	2





construction machine	0	0	0	0	0	0	0	0	0	0	0	0	0	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
general machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mobile silviculture machine																	0	0	0	0	0	0
crane	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveying machine	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
vehicle	0	1	0	2	0	0	0	0	0	0	0	1	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
chemical facilities	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
kiln, caldron	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	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
tools	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
other equipments, facilities	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
temporary buildings, establishments	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0
hazards, harmful substances	0	0	0	0	0	0	0	0	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
load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
natural environment	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	1	0
other causal agent	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
total	2	2	3	3	0	0	2	0	0	1	0	3	0	1	1	1	0	0	2	0	2	0











stone, sand, substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other materials	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	1	0	0	0	0	0	0
machine/equipment as load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural ground, rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
standing tree	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
abnormal environment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
high/cold temperature environment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
other environments	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
other causal agent	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
total	2	2	3	3	0	0	2	0	0	1	0	3	0	1	1	1	0	0	2	0	2	0

Workers age of fatal accidents in park and amusement park in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
19 years old or less	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-29	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
30-39	0	0	1	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
40-49	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0
50-59	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
60 years old or more	0	1	2	1	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	0	0	0
total	2	2	3	3	0	0	2	0	0	1	0	3	0	1	1	1	0	0	2	0	2	0

Workers' number of workplace of fatal accidents in park and amusement park 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	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Kagoshima	0	0	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	1	0	0	0	0	0	0	0	0	0	0	0
total	2	2	3	3	0	0	2	0	0	1	0	3	0	1	1	1	0	0	2	0	2	0

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

Return to [https://www.jisha.or.jp/english/statistics/2020e\\_industry.html](https://www.jisha.or.jp/english/statistics/2020e_industry.html)