

substance	1	1	1		1	1	1		4			1	3	2	2			2	3			1	2	1	27
electric shock						1			1	1			1		1	1			1					1	8
explosion			3	2				2				1		1		1							1		11
burst	1		1	1						1	1	1											1	1	8
fire					1	1								1					1				1		5
traffic accident (public road)	16	12	10	8	9	10	8	13	9	8	5	8	4	9	4	6	15	7	12	5	6	4	3	1	192
traffic accident (others)	12	8	6	4	2	3	5	2	1	6	4	7	6	4	1	8	7	1	3	6	1	2	1	1	101
reaction to motion/improper motion	244	263	252	221	194	215	190	207	219	197	192	201	199	212	191	198	175	168	185	192	187	166	215	175	4,858
others	21	16	19	12	16	15	6	13	15	16	15	12	7	15	9	14	8	15	12	12	13	6	18	16	321
unclassifiable	4	4	6	2	2	8	3	3	1	3		4	1	4	2	2	3	1		3	1	2		1	60
total	1,740	1,661	1,579	1,405	1,449	1,435	1,290	1,465	1,379	1,324	1,261	1,187	1,158	1,167	1,107	1,103	1,071	997	987	1,105	1,021	879	1,008	1,062	29,840

Causal agents (large) of fatal and non-fatal accidents in golf course 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	118	121	131	119	128	106	103	105	111	96	103	96	89	96	88	79	88	77	52	78	82	57	74	73	2,270
crane, conveying machine	309	290	244	247	241	253	230	252	226	207	212	190	173	184	172	182	167	147	172	175	143	134	136	143	4,829
other equipment	197	159	186	126	163	140	137	159	160	176	138	141	148	135	117	129	134	133	112	125	127	91	118	122	3,373

temporary buildings, establishments	404	421	381	320	343	360	357	414	366	395	353	311	314	315	318	350	350	322	323	378	338	317	328	391	8,469
substance, material	59	68	55	60	46	59	45	61	69	34	43	31	35	24	18	28	28	25	31	24	18	13	15	22	911
load	23	24	24	25	19	29	10	24	34	27	22	17	24	28	22	16	21	21	11	28	16	17	30	22	534
environment	336	308	292	285	315	295	251	265	265	244	263	253	236	252	231	201	181	193	188	179	188	157	168	171	5,717
others	294	270	266	223	194	193	157	185	148	145	127	148	139	133	141	118	102	79	98	118	109	93	139	118	3,737
total	1,740	1,661	1,579	1,405	1,449	1,435	1,290	1,465	1,379	1,324	1,261	1,187	1,158	1,167	1,107	1,103	1,071	997	987	1,105	1,021	879	1,008	1,062	29,840

Causal agents (middle) of fatal and non-fatal accidents in golf course 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		2	2																						4
power transmission mechanism	2	6	2	5	3	1	1	3	2	2	2	5	4	1	1	2	1	1	1	2		1	1	2	51
woodworking machine	15	15	21	19	20	13	14	15	24	11	15	13	14	27	14	21	13	8	12	13	11	14	12	7	361
construction machine	9	11	18	15	6	17	21	12	18	11	16	10	12	12	13	12	9	14	2	7	10	6	9	11	281
metal manufacturing machine	4	1	1	1	4	3		2	2	4		4	2	2	1	2	3			2	5		1	1	45

general machine	88	86	87	79	95	72	67	73	65	68	70	64	57	54	59	42	61	53	37	52	54	32	50	52	1,517
mobile silviculture machine																	1	1		2	2	4	1		11
crane	1	6		2	2	5	1		2	1	2	2	2	1	1	3		1		1				1	34
conveying machine	152	144	116	101	110	101	92	124	85	96	84	83	60	62	67	71	72	55	67	66	63	57	48	66	2,042
vehicle	156	140	128	144	129	147	137	128	139	110	126	105	111	121	104	108	95	91	105	108	80	77	88	76	2,753
pressure vessel				1	1					1	1		1		1					1		1		1	9
chemical facilities																									
welding equipment			1				1																		2
kiln, caldron			2					1		1				1				3			1				9
electric equipment		1	1	4	1	1	1			1	1	1		1	1	2				1	2	1	2	1	23
human power machine, tools	33	41	27	24	27	31	25	38	30	31	21	22	18	18	20	20	24	17	20	17	26	15	14	22	581
tools	151	100	129	81	117	95	100	103	114	119	97	96	108	97	85	90	92	86	84	93	79	60	85	75	2,336
other equipments, facilities	13	17	26	16	17	13	10	17	16	23	18	22	21	18	10	17	18	27	8	13	19	14	17	23	413
temporary buildings, establishments	404	421	381	320	343	360	357	414	366	395	353	311	314	315	318	350	350	322	323	378	338	317	328	391	8,469
hazards, harmful substances	4	3	2	3	1	9	5	3	3	2	2	2	3	5	2	2	6	4	5	4		1	1	2	74
materials	55	65	53	57	45	50	40	58	66	32	41	29	32	19	16	26	22	21	26	20	18	12	14	20	837

chamfering machine, router, woodworking milling machine																									
chain saw			10		11		10	12	17	4	11	12	12	20	10	16	9	7	8	8	7	11	7	7	209
other woodworking machines			4		2		3	1	5	3	2	1	2	5	3	3	1	1	4	4	4	2	4		54
leveling, transporting or loading machine			5		1		3	6	8	5	6	2	5	2	5	4	3	2		4	2	4	3	3	73
excavating machine			2		3		5	2	4	4	4	5	2	3	2	1	2	3	1		2	2	2	2	51
foundation work machine																				1					1
hardening machine					1		2	1					1	1			1								7
demolition machine																1			1	2			1		5
vehicle for high lift work			1															1							2
other construction machines			10		1		11	3	6	2	6	3	5	6	5	7	3	8		2	3		4	5	90
lathe					1																				1
drill press, milling machine					1				1				1												3
grinding machine, buffing machine			1		1			2	1	2		1	1		1	1	3			1	5		1	1	22

facilities																									
other electrical equipment			1	1	1		1		1	1	1		1	1					1	1			1	11	
human power cranes			2	1	1		1	1	1	2	1	1	1			1				3	1	1		18	
human power hauling equipment			3	11	2	11	5	7	8	3	6	6	8	6	11	5	7	7	8	8	3	9		134	
human power machine			2	3	1	4	2	1		1	1			2					1	1				19	
hand tool			20	12	21	23	22	22	12	16	10	11	11	12	13	11	13	10	14	5	10	13		281	
ladder			42	18	25	35	34	35	27	22	35	36	20	39	30	24	29	24	25	19	25	21		565	
slinging tool				1									1		1				1		1		5		
other tools			87	98	75	68	80	84	70	74	73	61	64	51	61	62	55	69	53	41	59	54		1,339	
other equipment, facilities			26	17	10	17	16	23	18	22	21	18	10	17	18	27	8	13	19	14	17	23		354	
scaffolding			1				1	1	1	1		1	1			1			1		1	1		11	
timbering						1																		1	
stairs, landing stage			48	31	34	42	46	46	31	32	32	34	25	34	37	44	33	36	32	19	30	40		706	
opening			1	1	1	3	1		2		1		2	1	3	1	1	2	3	1	1	3		28	
roof, beam, haze, crossbeam, principal rafter				1	2	4	4	4	6	2	2	3	1	2	4		1	1	1	2				42	
working platform, boot board			62	43	60	48	58	66	68	43	35	57	53	52	52	47	70	80	52	33	42	33		1,054	

passage			186		182		178	212	187	214	174	167	182	165	179	198	195	180	165	212	206	205	203	254	3,844
building, establishment			36		33		36	50	36	36	27	33	28	23	27	26	38	28	27	21	25	33	26	21	610
other temporary buildings, establishments			47		52		46	54	33	28	44	33	34	32	30	37	21	21	26	26	18	24	25	37	668
explosive substance			1						1																2
inflammable substance			1				1	2		2		1						2				1			10
inflammable gas							1								1	1			1						4
harmful substance					1		1		2			1	3	1				1					1		11
radiation																									
other hazards, harmful substances							2	1			2			4	1	1	6	3	2	4				2	28
metal material			6		7		6	9	8	7	6	4	3	4	1	2	4	2	5	6	3	3		6	92
lumber, bamboo			8		9		9	13	3	8	7	2	5	4	1	7	3	9	8	4		4	4	5	113
stone, sand, substance			7		3		2	2	5	1	4	1	8	2	4	1	2	1	2	2	1		1	1	50
other materials			32		26		23	34	50	16	24	22	16	9	10	16	13	9	11	8	14	5	9	8	355
load			23		16		8	22	32	26	20	16	22	25	20	14	20	20	10	26	16	17	30	21	404
machine/equipment as load			1		3		2	2	2	1	2	1	2	3	2	2	1	1	1	2				1	29
natural ground,			172		207		123	134	138	146	148	150	140	130	110	86	82	79	96	50	75	65	73	77	2,281

rock																									
standing tree			39	41	39	40	45	43	43	30	33	46	50	39	30	33	32	45	40	36	42	31	777		
water			1	5	3	3	3	3	3	3	2	2	5	1	2	1	2	1	1	1	1	4	47		
abnormal environment								2		1	1	1										1	6		
high/cold temperature environment			5	2	4	4	13	10	4	12	8	9	9	16	9	8	7	34	16	24	11	9	214		
other environments			75	60	82	84	66	40	65	57	52	64	57	59	58	72	51	49	56	31	41	49	1,168		
other causal agent			141	100	74	90	60	59	39	52	60	48	50	41	35	26	22	36	24	21	37	38	1,053		
no causal agent			108	85	78	91	83	78	82	89	75	78	88	72	67	51	74	80	85	71	101	79	1,615		
unclassifiable			17	9	5	4	5	8	6	7	4	7	3	5		2	2	2		1	1	1	89		
total	1,740	1,661	1,579	1,405	1,449	1,435	1,290	1,465	1,379	1,324	1,261	1,187	1,158	1,167	1,107	1,103	1,071	997	987	1,105	1,021	879	1,008	1,062	29,840

Workers age of fatal and non-fatal accidents in golf course 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	23	24	19	25	27	25	18	24	27	14	16	12	31	32	40	27	30	27	18	34	11	20	25	21	570
20-29	194	160	155	122	108	123	90	97	78	73	89	92	79	75	85	90	74	69	69	73	71	69	89	88	2,312
30-39	225	199	171	145	162	155	143	162	152	130	134	136	97	102	87	97	100	63	74	89	51	62	64	63	2,863
40-49	428	383	342	299	281	306	221	264	262	211	248	221	220	223	195	201	184	161	160	176	149	130	139	143	5,547
50-59	684	700	703	640	681	643	618	667	616	595	467	439	387	368	339	315	315	292	256	312	268	233	253	295	11,086
60 years old or	186	195	189	174	190	183	200	251	244	301	307	287	344	367	361	373	368	385	410	421	471	365	438	452	7,462

more																									
total	1,740	1,661	1,579	1,405	1,449	1,435	1,290	1,465	1,379	1,324	1,261	1,187	1,158	1,167	1,107	1,103	1,071	997	987	1,105	1,021	879	1,008	1,062	29,840

Workers' number of workplace of fatal and non-fatal accidents in golf course 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	52	51	53	48	64	47	55	53	62	49	39	42	48	54	40	39	47	35	32	35	44	37	32	36	1,094
10-29	60	71	75	67	66	76	78	93	84	97	88	85	82	95	87	79	84	74	87	103	96	79	102	100	2,008
30-49	90	132	149	160	168	215	150	214	200	206	179	151	161	162	175	191	173	171	195	170	164	159	162	157	4,054
50-99	819	773	751	684	694	726	635	686	648	580	594	556	533	522	488	491	482	436	393	446	408	320	397	433	13,495
100-299	675	603	539	431	428	352	360	398	371	381	338	340	323	324	304	291	278	268	273	336	302	274	311	324	8,824
300 workers or more	44	31	12	15	29	19	12	21	14	11	23	13	11	10	13	12	7	13	7	15	7	10	4	12	365
total	1,740	1,661	1,579	1,405	1,449	1,435	1,290	1,465	1,379	1,324	1,261	1,187	1,158	1,167	1,107	1,103	1,071	997	987	1,105	1,021	879	1,008	1,062	29,840

Month of fatal and non-fatal accidents in golf course 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
January	115	94	132	96	124	92	111	105	88	75	85	97	100	76	90	79	71	71	62	94	77	56	84	90	2,164
February	107	107	92	85	94	86	68	90	83	106	64	71	73	65	82	88	67	70	66	76	74	69	72	78	1,933
March	147	144	132	103	113	102	94	99	122	102	116	94	86	98	94	88	105	79	73	82	72	59	75	92	2,371
April	144	132	140	133	106	126	119	115	119	117	130	92	92	105	84	95	96	83	90	99	88	52	79	92	2,528
May	171	129	142	152	125	140	114	135	130	134	123	111	96	117	97	103	95	99	90	108	101	62	101	94	2,769

June	147	157	151	111	131	137	110	124	140	105	110	107	103	107	87	84	96	79	72	94	85	72	74	94	2,577
July	161	214	140	133	138	147	120	140	128	129	121	124	123	117	96	107	101	87	86	96	102	86	101	95	2,892
August	133	157	151	135	141	123	108	163	130	125	111	98	88	97	99	92	94	80	89	102	92	99	85	87	2,679
September	172	159	118	108	125	135	101	150	115	99	104	101	115	110	96	106	97	91	90	100	103	80	75	85	2,635
October	177	139	155	121	127	118	126	116	104	116	106	102	106	89	99	86	91	104	99	96	77	77	101	90	2,622
November	150	127	128	116	118	109	109	134	120	107	102	101	93	83	105	104	92	87	89	90	76	90	95	78	2,503
December	116	102	98	112	107	120	110	94	100	109	89	89	83	103	78	71	66	67	81	68	74	77	66	87	2,167
total	1,740	1,661	1,579	1,405	1,449	1,435	1,290	1,465	1,379	1,324	1,261	1,187	1,158	1,167	1,107	1,103	1,071	997	987	1,105	1,021	879	1,008	1,062	29,840

Prefecture of fatal and non-fatal accidents in golf course 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	86	103	57		59		82	99	93	76	64	75	77	69	63	66	45	59	52	61	50	38	46	40	1,460
Aomori	4	10	8		3		8	3	2	5	4	7	6	3	5	4	3	2	3	2	5	5	5	2	99
Iwate	11	9	8		10		6	2	9	1	4	3	1	3	2	2	2	3	3	3	1	1	1		85
Miyagi	24	26	12		19		10	10	14	15	8	15	8	11	15	16	11	12	10	11	11	9	7	13	287
Akita	11	7	11		5		5	6	3	9	6	4	5	4	8	5	4	3	2	3	5	2	2	4	114
Yamagata	6	6	4		4		2	12	2	3	6	3	1	2	4	2	5		2	2	4	1	2	8	81
Fukushima	32	28	14		20		20	20	15	18	22	12	9	12	11	10	13	11	5	12	8	12	14	7	325
Ibaraki	102	81	74		74		60	57	67	50	66	54	58	59	43	52	47	61	51	53	60	37	54	49	1,309
Tochigi	80	70	66		60		59	50	40	40	53	48	37	40	39	29	39	33	44	42	43	34	39	33	1,018
Gunma	45	37	46		31		22	32	33	31	30	23	17	21	23	24	15	18	21	17	30	21	19	17	573
Saitama	64	60	52		49		54	54	71	57	54	62	49	60	64	74	70	47	47	71	62	62	72	84	1,339

Hiroshima	40	35	34		24		19	31	23	20	24	12	16	9	13	20	13	12	10	14	15	10	18	12	424
Yamaguchi	27	19	14		14		19	15	9	10	6	7	17	11	5	5	9	4	5	12	10	8	3	5	234
Tokushima	18	16	18		18		5	6	7	6	6	5	2	4	4		3	6	6	1	4	4	1	7	147
Kagawa	25	17	18		18		11	14	5	15	10	11	10	9	6	5	5	5	6	4	9	3	5	4	215
Ehime	20	17	12		20		12	13	12	13	15	8	12	10	13	8	7	7	9	5	5	4	4	9	235
Kochi	18	11	14		14		7	15	12	12	9	15	15	9	8	11	12	12	5	5	10	4	10	9	237
Fukuoka	68	52	52		57		41	65	39	45	47	38	50	60	55	40	42	33	41	38	29	38	30	34	994
Saga	13	14	15		11		8	6	16	9	13	9	7	7	12	9	12	10	12	10	10	2	4	11	220
Nagasaki	14	9	13		16		11	18	12	12	10	4	9	11	4	5	4	7	6	7	8	7	3	9	199
Kumamoto	30	27	36		25		24	22	31	21	20	21	20	18	24	14	23	13	17	21	10	11	18	12	458
Oita	26	22	20		11		13	14	10	14	14	12	4	8	11	8	3	11	6	9	7	6	9	8	246
Miyazaki	25	17	12		17		15	28	19	14	12	15	15	15	10	16	19	9	10	17	11	13	12	12	333
Kagoshima	17	22	14		24		22	9	19	14	16	18	8	17	12	10	7	10	7	11	11	13	8	9	298
Okinawa	19	16	22		20		17	18	13	12	9	11	9	11	7	12	15	6	11	11	12	7	8	6	272
total	1,740	1,661	1,579	1,405	1,449	1,435	1,290	1,465	1,379	1,324	1,261	1,187	1,158	1,167	1,107	1,103	1,071	997	987	1,105	1,021	879	1,008	1,062	29,840

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

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.html> (MHLW, Japan)

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html

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fire																								1				1
traffic accident (public road)		1				1																						2
traffic accident (others)																												
reaction to motion/improper motion																												
others				1					1						1													3
unclassifiable																												
total	4	5	4	9	7	6	2	3	4	2	7	7	4	6	5	4	2	2	3	4	7	5	3	1			106	

Causal agents (large) of fatal accidents in golf course 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	1	2	3	6	3	2	1	1			4	2	1	2		3	1	1	1		3	1	1	1		40
crane, conveying machine	1	2		2				1	1			1	1			1		1			1	1				13
other equipment	1	1			1				1	1		1	1		1						1		1			10
temporary buildings, establishments					2	1		1						1							2		2			9
substance, material													1						1				1			3
load																										
environment	1		1		1	3	1		1	1	3	3		3	4				1	2	2		1			28
others				1					1								1									3
total	4	5	4	9	7	6	2	3	4	2	7	7	4	6	5	4	2	2	3	4	7	5	3	1		106

Causal agents (middle) of fatal accidents in golf course 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																									
power transmission mechanism																									
woodworking machine																									
construction machine			2	2		1		1						2		1						1			10
metal manufacturing machine																									
general machine	1	2	1	4	3	1	1				4	2	1			2	1	1	1		3		1	1	30
mobile silviculture machine																									
crane																									
conveying machine		1		1				1				1				1		1			1				7
vehicle	1	1		1					1				1									1			6
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron										1															1
electric equipment																									
human power machine, tools																									
tools	1	1			1							1	1		1								1		7
other equipments, facilities									1												1				2
temporary buildings, establishments					2	1		1						1						2		2			9

radiation																									
other hazards, harmful substances																									
metal material																									
lumber, bamboo																		1							1
stone, sand, substance																									
other materials																									
load																									
machine/equipment as load																									
natural ground, rock					1					1			1												3
standing tree	1		1			2	1			1	2	1		2	3					1	1		1		17
water						1			1			1							1						4
abnormal environment																									
high/cold temperature environment												1										1			2
other environments															1						1				2
other causal agent				1																					1
no causal agent										1															1
unclassifiable																	1								1
total	4	5	4	9	7	6	2	3	4	2	7	7	4	6	5	4	2	2	3	4	7	5	3	1	106

Workers age of fatal accidents in golf course in 1999-2022



January			2			1						1		1										6	
February												1	1					1						3	
March	1	1			1		1				4				1							1		10	
April		1			1				1			1			1		1		1			1		8	
May	1				1	1			1					1			1		1		2	1	1	11	
June		1		1				1			1			2						1		1		8	
July			1	2	2		1					2			1	3			1		1	1		15	
August				1	1	1			2									1						6	
September	1		1	2		2		1			1	2	1								2			13	
October	1	2		1	1	1					1	2	1		1					2	2		1	16	
November								1		2				2		1		1				1		8	
December				2																				2	
total	4	5	4	9	7	6	2	3	4	2	7	7	4	6	5	4	2	2	3	4	7	5	3	1	106

Prefecture of fatal accidents in golf course 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		1	1							1			1	1		1		1	2				11	
Aomori																										
Iwate																										
Miyagi																										
Akita																										
Yamagata								1														1				2

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

Nara	1		1								2												4		
Wakayama					1															1			2		
Tottori											1												1		
Shimane																									
Okayama						1			1														2		
Hiroshima	1													1									2		
Yamaguchi					1							1											2		
Tokushima		1			1																		2		
Kagawa																									
Ehime												1											1		
Kochi				1					1														2		
Fukuoka											1						1		1	1			4		
Saga																									
Nagasaki																									
Kumamoto	1											1											2		
Oita																									
Miyazaki																		1					1		
Kagoshima																		1					1		
Okinawa			1																				1		
total	4	5	4	9	7	6	2	3	4	2	7	7	4	6	5	4	2	2	3	4	7	5	3	1	106

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

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