



contact to harmful substance		1	1	3	1	1	2	1	3	2	1			3		1		2	1		1	1		25	contact to harmful substance
electric shock												1		1	1			1				1	1	6	electric shock
explosion	1		2		3	2		2	2					1							1			14	explosion
burst	1						1	1					1								1			5	burst
fire		2	1	3	1	1	1		1			1		1		1								13	fire
traffic accident (public road)	15	8	9	8	6	4	3	4	10	9	2	2	3	1	7	1	1	11	6	4	5	4	1	124	traffic accident (public road)
traffic accident (others)	2																							2	traffic accident (others)
reaction to motion/improper motion	61	46	47	44	49	36	41	35	48	35	22	29	25	33	25	32	30	23	31	31	21	38	28	810	reaction to motion/improper motion
others	3	4	4		5	2	1	2	3	2		1	1			1	2	2	1		4	5		43	others
unclassifiable	2		2		1	1	2												1	1				10	unclassifiable
total	1,335	1,285	1,126	1,089	1,077	913	866	809	794	699	552	571	562	499	520	521	451	443	381	440	409	416	363	16,121	total

Causal agents (large) of fatal and non-fatal accidents in furniture 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	869	864	702	727	676	589	537	513	484	465	372	377	405	328	306	339	273	264	226	252	244	239	222	10,273	machine
crane, conveying	67	56	47	39	46	40	34	38	49	39	28	26	20	15	36	22	23	29	18	22	20	23	22	759	crane, conveying

machine																										machine
other equipment	107	115	112	108	101	100	93	93	90	68	55	51	37	45	56	44	45	46	40	54	37	44	39	1,580	other equipment	
temporary buildings, establishments	71	74	73	74	86	68	75	52	51	42	38	40	30	38	47	34	36	38	41	41	45	32	30	1,156	temporary buildings, establishments	
substance, material	144	114	130	98	103	84	83	69	76	48	39	48	38	41	45	46	39	35	28	37	36	44	27	1,452	substance, material	
load	44	33	37	22	39	17	26	22	25	23	11	14	10	22	11	16	19	12	5	10	11	12	9	450	load	
environment	5	8	4	5	7	3	5	7	6	4	1	3	7	1	8	6	2	7	3	8	6	4	1	111	environment	
others	28	21	21	16	19	12	13	15	13	10	8	12	15	9	11	14	14	12	20	16	10	18	13	340	others	
total	1,335	1,285	1,126	1,089	1,077	913	866	809	794	699	552	571	562	499	520	521	451	443	381	440	409	416	363	16,121	total	

Causal agents (middle) of fatal and non-fatal accidents in furniture 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															2	engine
power transmission mechanism	6	7	3	6	2	3	3	1	2	1	1	3	1	2	2	1	2	1		3	1	1	2	54	power transmission mechanism
woodworking machine	757	778	633	642	603	529	472	453	425	408	325	341	349	285	268	287	235	239	196	218	200	203	199	9,045	woodworking machine
construction machine						1	1					1											1	4	construction machine



other equipments, facilities	9	8	6	8	10	9	9	6	10	14	4	5	4	10	9	5	8	2	6	5	3	4	3	157	equipments, facilities
temporary buildings, establishments	71	74	73	74	86	68	75	52	51	42	38	40	30	38	47	34	36	38	41	41	45	32	30	1,156	temporary buildings, establishments
hazards, harmful substances	3	2	6	5	6	3	6	2	4	2	3	1	1	5	2	2		1	1		1	1		57	hazards, harmful substances
materials	141	112	124	93	97	81	77	67	72	46	36	47	37	36	43	44	39	34	27	37	35	43	27	1,395	materials
load	44	33	37	22	39	17	26	22	25	23	11	14	10	22	11	16	19	12	5	10	11	12	9	450	load
natural environment	5	8	4	5	7	3	5	7	6	4	1	3	7	1	8	6	2	7	3	8	6	4	1	111	natural environment
other causal agent	12	8	4	2	6	1	1	6			1	2	4	2	5	3	1	3	2	4	1	5	1	74	other causal agent
no causal agent	14	12	12	13	12	9	10	8	12	10	7	10	11	7	6	10	12	9	18	12	9	13	12	248	no causal agent
unclassifiable	2	1	5	1	1	2	2	1	1							1	1							18	unclassifiable
total	1,335	1,285	1,126	1,089	1,077	913	866	809	794	699	552	571	562	499	520	521	451	443	381	440	409	416	363	16,121	total

Causal agents (small) of fatal and non-fatal accidents in furniture 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															2	engine
power transmission			3		2		3	1	2	1	1	3	1	2	2	1	2	1		3	1	1	2	32	power transmission

mechanism																										mechanism
circular sawing machine			331		345		279	277	248	233	198	220	190	170	162	174	147	141	114	123	126	112	120	3,710	circular sawing machine	
band sawing machine			14		7		9	8	3	7	5	3	2	4	7	5	3	1	5	1	2	5	5	96	band sawing machine	
wood planer machine			94		85		54	49	47	57	51	43	48	31	36	34	23	27	20	24	21	25	24	793	wood planer machine	
hollow chisel mortiser, wood borer			22		15		7	7	12	8	10	2	12	6	10	4	7	8	6	5	2	4		147	hollow chisel mortiser, wood borer	
chamfering machine, router, woodworking milling machine			50		41		25	16	27	34	13	15	15	15	11	14	11	9	7	19	7	8	15	352	chamfering machine, router, woodworking milling machine	
chain saw			2		1																			3	chain saw	
other woodworking machines			120		109		98	96	88	69	48	58	82	59	42	56	44	53	44	46	42	49	35	1,238	other woodworking machines	
leveling, transporting or loading machine																						1		1	leveling, transporting or loading machine	
excavating machine																										excavating machine
foundation work machine							1																	1	foundation work machine	
hardening machine																										hardening machine
demolition machine																										demolition machine



machine																										machine
printing machine																										printing machine
industrial robot										1								2		1				4	industrial robot	
other general power machines			39		39		25	26	28	30	29	18	24	21	15	24	19	10	18	19	25	19	9	437	other general power machines	
felling machine																										felling machine
mobile logging machine																										mobile logging machine
skyline yarding machine																										skyline yarding machine
other mobile silviculture machine																										other mobile silviculture machine
crane			1		1		2	2	1	2		1			2		1		1			1		15	crane	
mobile crane										1														1	mobile crane	
derrick crane																										derrick crane
elevator, lift			4		4		2	3	1	4		2		1	1		1	2		2		2	2	31	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	3	1	1	1	1	2						1	1					11	other powered crane	
truck			18	21	7	13	15	11	11	9	4	4	11	10	7	6	7	3	7	10	10	184	truck
forklift			7	6	9	7	6	9	7	8	8	6	10	6	5	6	6	9	7	3	5	130	forklift
railway equipment																							railway equipment
conveyor			10	5	6	4	13	3	8	5	2	1	5	4	7	6	1	3	3	3	3	92	conveyor
loader											1				1							2	loader
straddle carrier																							straddle carrier
rough terrain hauler																							rough terrain hauler
other powered conveying machines			1	2			1	1	1		1	1	1	1				1				11	other powered conveying machines
cars, bus, motorcycle			4	4	3	7	11	6	1		3	2	6	1		9	2	4	2	4	2	71	cars, bus, motorcycle
railway vehicle					1																	1	railway vehicle
other vehicles			1		3	2	1															7	other vehicles
boiler				1		2																3	boiler
pressure vessel																	1					1	pressure vessel
other pressure vessels						1	1						1									3	other pressure vessels
chemical facilities																		1				1	chemical facilities
gas welding equipment						1																1	gas welding equipment
arc welding equipment						1			1					1								3	arc welding equipment



stairs, landing stage			16		21		12	12	6	9	5	7	3	2	6	6	6	5	9	5	6	9	4	149	stairs, landing stage
opening					3		3			1	2	1							1	2				13	opening
roof, beam, haze, crossbeam, principal rafter			7		3		4	3	2				2	2	2	1	3	3		2	1	2		37	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			8		13		12	10	12	9	7	9	3	7	3	11	5	11	4	6	8	2	5	145	working platform, boot board
passage			32		25		23	20	21	17	14	15	14	21	28	10	17	15	14	17	25	15	15	358	passage
building, establishment			5		7		13	4	6	5	6	5	5	3	6	3	2		7	7	1	3	2	90	building, establishment
other temporary buildings, establishments			3		13		4	2	2	1	2	3	3	3	2	2	2	4	6	1	2	1	3	59	other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance			2				1	1	2		1		1	2	1	1					1			13	inflammable substance
inflammable gas					1																			1	inflammable gas
harmful substance			1		1			1	1	2	1			2					1			1		11	harmful substance
radiation																									radiation
other hazards, harmful substances			3		4		5		1		1	1		1	1	1		1						19	other hazards, harmful substances
metal material			18		11		12	11	14	9	3	3	7	5	5	11	6	5	1	6	8	13	4	152	metal material
lumber, bamboo			92		69		56	44	54	31	27	37	28	22	32	24	30	27	23	24	25	23	17	685	lumber, bamboo
stone, sand,			4		1			2							1	1			1					10	stone, sand,

substance																										substance
other materials			10		16		9	10	4	6	6	7	2	9	5	8	3	2	2	7	2	7	6	121	other materials	
load			31		35		24	21	23	19	9	13	10	22	11	15	18	12	3	10	10	11	9	306	load	
machine/equipment as load			6		4		2	1	2	4	2	1				1	1		2		1	1		28	machine/equipment as load	
natural ground, rock									3	1								1						5	natural ground, rock	
standing tree								1			1	2				1							1	6	standing tree	
water													4										1	5	water	
abnormal environment																										abnormal environment
high/cold temperature environment					1		2	1		2			2		3	1	1	2	1	7	3	1		27	high/cold temperature environment	
other environments			4		6		3	5	3	1		1	1	1	5	4	1	4	2	1	3	1	1	47	other environments	
other causal agent			4		6		1	6			1	2	4	2	5	3	1	3	2	4	1	5	1	51	other causal agent	
no causal agent			12		12		10	8	12	10	7	10	11	7	6	10	12	9	18	12	9	13	12	200	no causal agent	
unclassifiable			5		1		2	1	1							1	1							12	unclassifiable	
total			1,126		1,077		866	809	794	699	552	571	562	499	520	521	451	443	381	440	409	416	363	11,499	total	

Workers age of fatal and non-fatal accidents in furniture 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	46	42	30	19	22	25	29	13	14	9	10	6	11	9	19	18	7	10	3	7	9	10	7	375	19 years old or less





Fukushima	8	26	14		21		13	14	20	11	4	9	11	11	7	8	13	11	7	5	15	7	6	241	Fukushima
Ibaraki	13	12	7		8		3	10	13	8	8	2	4	4	6	11	4	6	2	4	7	10	6	148	Ibaraki
Tochigi	36	30	35		33		24	8	13	11	9	11	13	13	11	10	7	9	9	15	9	12	6	324	Tochigi
Gunma	47	37	41		33		32	26	21	24	21	21	9	17	23	12	18	15	11	17	10	20	7	462	Gunma
Saitama	46	47	46		34		46	33	59	45	36	24	22	28	20	27	25	13	24	34	17	21	11	658	Saitama
Chiba	17	14	12		12		5	8	11	2	6	6	5	5	8	9	6	6	4	4	5	3	2	150	Chiba
Tokyo	35	30	36		43		29	21	21	25	29	18	14	13	13	10	13	11	14	9	11	8	7	410	Tokyo
Kanagawa	26	25	22		12		17	16	12	10	8	9	8	11	12	15	4	5	5	11	8	9	9	254	Kanagawa
Niigata	33	45	36		33		25	17	20	17	19	22	16	14	20	13	11	20	22	13	7	15	11	429	Niigata
Toyama	10	12	15		18		9	2	9	2	6	4	5	9	7	5	4	7	3	2	7	4	7	147	Toyama
Ishikawa	15	10	17		4		11	8	7	9	2	8	11	8	3	5	2	4	3		1	7	2	137	Ishikawa
Fukui	14	12	16		11		8	11	5	8	9	6	3	5	7	4	3	5	6	13	7	7	7	167	Fukui
Yamanashi	6	6	7		5		1	1	3	3	1	2	3	4	5	2	2	2		5	4	1	1	64	Yamanashi
Nagano	20	18	24		18		17	13	8	8	8	10	7	7	7	10	12	8	4	9	9	7	7	231	Nagano
Gifu	61	55	45		33		32	50	47	34	38	29	25	28	26	27	31	18	20	27	23	23	20	692	Gifu
Shizuoka	86	72	62		53		48	49	38	35	35	26	40	25	23	42	31	27	18	23	14	18	16	781	Shizuoka
Aichi	64	69	63		48		51	44	50	37	26	40	33	19	24	24	21	26	23	17	21	27	14	741	Aichi
Mie	22	19	12		15		14	13	12	18	6	13	5	9	7	6	8	6	9	10	6	7	3	220	Mie
Shiga	13	6	9		4		4	8	9	7	5	8	4	8	3	7	6	5	2	1	3	3	6	121	Shiga
Kyoto	12	17	18		12		13	9	8	7	7	3	7	4	4	5	4	8	8	3		3	2	154	Kyoto
Osaka	75	59	46		64		54	44	29	39	22	38	32	26	38	27	24	28	14	16	23	20	23	741	Osaka
Hyogo	45	32	23		29		19	33	35	18	22	17	17	12	10	11	8	8	12	11	9	14	13	398	Hyogo
Nara	11	15	10		8		14	5	7	11	12	7	9	9	8	5	13	13	8	3	6	5	9	188	Nara

Wakayama	36	43	29		34		28	28	26	29	19	15	25	17	21	17	15	9	12	14	4	15	9	445	Wakayama
Tottori	7	4	3		8		3	6	2	3	3	1	1	1	2	3	2	1			4	2	1	57	Tottori
Shimane	16	17	12		14		6	5	8	4	5	3	3	5	5	5	3	2	5	9	4	3		134	Shimane
Okayama	19	16	12		24		13	13	21	17	10	10	9	11	7	9	6	9	11	5	7	6	13	248	Okayama
Hiroshima	61	63	58		42		30	38	29	19	25	24	23	21	14	27	14	14	13	19	22	16	14	586	Hiroshima
Yamaguchi	12	14	9		12		12	6	3	7	5	3	8	4	4	4	7	2	3		7	4	3	129	Yamaguchi
Tokushima	63	50	41		34		38	27	17	25	14	16	21	23	19	17	20	12	14	19	7	14	9	500	Tokushima
Kagawa	32	26	15		19		10	13	17	14	12	8	6	11	10	10	6	5	4	6	5	2	7	238	Kagawa
Ehime	19	10	12		12		10	8	6	7	4	6	7	6	1	3	3	5	3	1	6	5	3	137	Ehime
Kochi	14	20	18		22		7	4	6	10	6	9	4	3	9	6	3	7	8	3	3	2	4	168	Kochi
Fukuoka	117	116	100		97		65	69	54	53	44	38	44	29	45	38	24	26	26	30	34	34	32	1,115	Fukuoka
Saga	16	19	13		16		9	14	11	13	5	11	15	8	11	7	8	10	8	7	7	8	10	226	Saga
Nagasaki	12	7	12		13		5	4	7	5	4	3	6	2	2	1	4	2	2	6	4	5	2	108	Nagasaki
Kumamoto	11	14	9		16		10	4	6	6	3	3	2	2	3	3	1	3	2		2	1	5	106	Kumamoto
Oita	17	15	18		16		17	16	17	17	6	9	8	9	9	10	5	6	5	13	10	7	6	236	Oita
Miyazaki	15	15	5		8		11	10	6	6	2	6	2	10	4	6	5	11	1	1	9	9	1	143	Miyazaki
Kagoshima	12	10	4		13		10	3	9	5	3	1	2	2	10	4	3	7	3	4	3	5	3	116	Kagoshima
Okinawa	6	6	8		8		4	7	2	2	2	3	4	2	1	1	1	2		2	2		1	64	Okinawa
total	1,335	1,285	1,126		1,077		866	809	794	699	552	571	562	499	520	521	451	443	381	440	409	416	363	14,119	total

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)











tools																									machine, tools	
tools																									tools	
other equipments, facilities																									other equipments, facilities	
temporary buildings, establishments					1			1	1															4	temporary buildings, establishments	
hazards, harmful substances			1																					3	hazards, harmful substances	
materials					1		1	1																3	materials	
load						1																		1	load	
natural environment													4											4	natural environment	
other causal agent																									other causal agent	
no causal agent																								1	1	no causal agent
unclassifiable																									unclassifiable	
total	1	2	4	1	2	2	1	2	7	2		1	6			1	1	2		1	3	1		40	total	

Causal agents (small) of fatal accidents in furniture 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
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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																								transmission
electric power facilities																								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																								ladder
slinging tool																								slinging tool
other tools																								other tools
other equipment, facilities																								other equipment, facilities





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						1																			1	19 years old or less
20-29				1	1																	1			3	20-29
30-39								1	1												1				3	30-39
40-49	1									2		1	1				1								6	40-49
50-59			2		1	1		1	2				4					2				1	1		15	50-59
60 years old or more		2	2				1		4				1			1						1			12	60 years old or more
total	1	2	4	1	2	2	1	2	7	2		1	6			1	1	2		1	3	1		40	total	

Workers' number of workplace of fatal accidents in furniture 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		1	1	1		1	1	1	2	1			3					2							14	9 workers or less	
10-29	1		1					1	2				2									2			9	10-29	
30-49		1	1		1	1			2	1			1				1						1		10	30-49	
50-99			1		1				1																3	50-99	
100-299												1				1				1	1				4	100-299	
300 workers or more																											300 workers or more
total	1	2	4	1	2	2	1	2	7	2		1	6			1	1	2		1	3	1		40	total		

Month of fatal accidents in furniture in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January																					1			1	January



Ibaraki																							Ibaraki											
Tochigi																				1			1	Tochigi										
Gunma			1																				1	Gunma										
Saitama					1	1																		2	Saitama									
Chiba																									Chiba									
Tokyo															1									1	2	Tokyo								
Kanagawa																										1	Kanagawa							
Niigata																											2	Niigata						
Toyama																												1	Toyama					
Ishikawa																													Ishikawa					
Fukui																													Fukui					
Yamanashi																													Yamanashi					
Nagano																													1	1	Nagano			
Gifu																														1	1	Gifu		
Shizuoka			2																												2	Shizuoka		
Aichi																															Aichi			
Mie																															Mie			
Shiga																														1	1	Shiga		
Kyoto																															Kyoto			
Osaka																														2	2	1	5	Osaka
Hyogo																																Hyogo		
Nara																															1	1	Nara	
Wakayama																															1	1	Wakayama	

Tottori																								Tottori	
Shimane																									Shimane
Okayama																									Okayama
Hiroshima																									Hiroshima
Yamaguchi				1																			1	Yamaguchi	
Tokushima																									Tokushima
Kagawa																									Kagawa
Ehime																									Ehime
Kochi								1																1	Kochi
Fukuoka	1																							1	Fukuoka
Saga																				1				1	Saga
Nagasaki																									Nagasaki
Kumamoto			1																					1	Kumamoto
Oita										1														1	Oita
Miyazaki																									Miyazaki
Kagoshima									2															2	Kagoshima
Okinawa																									Okinawa
total	1	2	4	1	2	2	1	2	7	2		1	6			1	1	2		1	3	1		40	total

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

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