Fatal and non-fatal accidents in wood products in Japan in 1999-2022

wood products industry Code No.0104

Type of accidents in wood products 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	293	291	260	210	187	175	191	180	201	152	157	146	125	128	149	141	132	113	115	140	124	130	132	119	3,991
falling to same level	271	282	246	186	208	197	190	186	173	145	122	109	121	130	99	117	93	109	112	141	108	92	119	139	3,695
crash	142	132	121	98	86	98	93	93	74	71	51	52	50	45	56	42	40	48	47	52	57	52	37	46	1,683
struck by flying or falling object	399	343	311	255	261	248	216	204	186	157	143	109	133	140	119	114	102	102	116	80	93	83	77	75	4,066
collapse	79	74	73	54	52	61	45	55	42	44	30	31	25	18	23	25	21	12	17	22	17	19	25	13	877
crashed by	215	183	153	141	127	110	116	105	112	87	71	62	62	75	54	76	65	65	64	56	55	46	68	49	2,217
caught in/between	974	938	840	697	713	682	668	593	577	489	387	428	437	447	377	377	352	374	346	285	312	264	285	293	12,135
cut	996	947	875	677	731	650	617	527	511	470	407	407	380	353	368	351	321	295	278	313	297	255	245	270	11,541
injury to the sole of the foot	12	3	6	4	1	6	6	7	1	3	2		3	6	1	3	3	4	7	1	6	1	1	3	90
drown	1	1		1									17												20
contact to high/low-temperature	23	22	19	20	13	8	20	13	14	12	11	14	13	9	13	11	7	7	14	12	6	10	8	13	312
contact to harmful																									

substance	4	4	1		1	4	4	1	5	1	1	2	1	4	5			2	1	1	2	1	1	1	47
electric shock	4			6	1		1	2		1	1	1		1		1	1	3	3		1				27
explosion	2	3	2	2		6	3		1	1	1				1	2			1	1					26
burst				2	2	3		1					1	1											10
fire	1									1							1			1				2	6
traffic accident (public road)	15	10	15	18	16	11	6	10	10	6	3	7	7	8	14	6	16	5	5	7	6	6	6	15	228
traffic accident (others)		1					1	3				1			1	1			1	1					10
reaction to motion/improper motion	166	178	114	97	123	109	97	99	91	95	67	75	80	72	78	73	76	64	62	75	71	82	75	71	2,190
others	5	6	10	16	8	6	7	10	6	3	5	2	4	1	5	9	3	3	1	8	5	4	45		172
unclassifiable	2	4	2	2	3	1	3	4	2	1	4		3		2	1			1		1			1	37
total	3,604	3,422	3,048	2,486	2,533	2,375	2,284	2,093	2,006	1,739	1,463	1,446	1,462	1,438	1,365	1,350	1,233	1,206	1,191	1,196	1,161	1,045	1,124	1,110	43,380

Causal agents (large) of fatal and non-fatal accidents in wood products 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	1,773	1,666	1,468	1,214	1,243	1,121	1,100	984	947	838	698	704	711	692	634	640	585	570	541	534	533	473	476	492	20,637
crane, conveying machine	409	412	386	340	335	329	306	291	303	249	202	227	216	217	204	198	180	177	194	157	172	178	179	170	6,031
other equipment	272	234	230	155	179	194	191	144	151	144	120	94	93	95	115	102	106	88	105	98	101	74	91	105	3,281

temporary buildings, establishments	293	273	240	189	198	193	178	209	189	154	152	111	129	126	118	137	118	129	109	155	132	99	116	136	3,883
substance, material	697	679	592	472	442	423	398	365	315	271	213	225	217	229	211	189	173	175	166	167	146	150	151	138	7,204
load	52	62	49	52	49	38	38	34	39	31	28	24	20	32	27	20	26	19	20	22	27	20	22	24	775
environment	35	28	34	29	35	31	28	27	22	18	15	23	39	19	22	31	12	23	29	28	19	23	18	22	610
others	73	68	49	35	52	46	45	39	40	34	35	38	37	28	34	33	33	25	27	35	31	28	71	23	959
total	3,604	3,422	3,048	2,486	2,533	2,375	2,284	2,093	2,006	1,739	1,463	1,446	1,462	1,438	1,365	1,350	1,233	1,206	1,191	1,196	1,161	1,045	1,124	1,110	43,380

Causal agents (middle) of fatal and non-fatal accidents in wood products 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		1	1	1					2	3				1									1	12
power transmission mechanism	58	59	44	39	24	26	35	36	25	21	17	23	32	24	23	19	26	24	16	20	29	23	16	19	678
woodworking machine	1,553	1,467	1,281	1,040	1,084	965	941	821	821	705	603	603	592	587	538	557	479	468	459	442	426	387	400	402	17,621
construction machine	9	8	6	10	5	6	2	3	13	3	3	5	4	5	5	3	3	3	2	4	7	5	7	5	126
metal manufacturing machine	34	16	19	11	20	14	18	14	17	14	8	14	14	14	9	7	13	9	4	8	17	7	3	10	314

general machine	117	116	117	113	109	110	104	110	71	93	64	59	69	62	58	54	60	62	58	59	50	48	48	53	1,864
mobile silviculture machine																	4	4	2	1	4	3	2	2	22
crane	33	30	22	23	14	31	18	25	14	17	17	10	7	8	10	11	12	6	11	6	8	9	5	6	353
conveying machine	364	372	353	305	309	286	282	261	284	227	179	210	205	199	186	180	158	168	179	146	159	165	170	149	5,496
vehicle	12	10	11	12	12	12	6	5	5	5	6	7	4	10	8	7	10	3	4	5	5	4	4	15	182
pressure vessel	4	1	3	1		3		1	3	1	1	2	1		2	2	2	1	1	1	1		1	1	33
chemical facilities											1	1													2
welding equipment						1					2			1					2				1		7
kiln, caldron	8	6	6	8	7	2	8	3	3	4	5	1	4	2	2	4		1	4	4	2			4	88
electric equipment	4	2		5	1	2	5	1	3	3	1	2	1	6		1	1	3	3		1		2	1	48
human power machine, tools	103	95	79	63	66	80	57	51	63	55	45	29	32	35	32	30	36	25	29	30	32	21	24	32	1,144
tools	109	102	103	66	80	80	88	66	62	59	53	47	42	41	60	51	49	49	54	46	50	45	49	54	1,505
other equipments, facilities	44	28	39	12	25	26	33	22	17	22	12	12	13	10	19	14	18	9	12	17	15	8	14	13	454
temporary buildings, establishments	293	273	240	189	198	193	178	209	189	154	152	111	129	126	118	137	118	129	109	155	132	99	116	136	3,883
hazards, harmful substances	6	7	3	3	4	7	5	4	7	2	3	1	1	3	2	2	2	2	3	2	2	1	1	2	75
materials	691	672	589	469	438	416	393	361	308	269	210	224	216	226	209	187	171	173	163	165	144	149	150	136	7,129

load	52	62	49	52	49	38	38	34	39	31	28	24	20	32	27	20	26	19	20	22	27	20	22	24	775
natural environment	35	28	34	29	35	31	28	27	22	18	15	23	39	19	22	31	12	23	29	28	19	23	18	22	610
other causal agent	14	17	12	5	18	4	9	9	7	6	5	5	9	3	8	7	4	3	2	4	4	4	44	3	206
no causal agent	56	48	35	29	28	40	32	27	32	26	26	33	26	24	22	24	29	22	24	28	26	23	26	19	705
unclassifiable	3	3	2	1	6	2	4	3	1	2	4		2	1	4	2			1	3	1	1	1	1	48
total	3,604	3,422	3,048	2,486	2,533	2,375	2,284	2,093	2,006	1,739	1,463	1,446	1,462	1,438	1,365	1,350	1,233	1,206	1,191	1,196	1,161	1,045	1,124	1,110	43,380

Causal agents (small) of fatal and non-fatal accidents in wood products 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
engine			1		1					2	3				1									1	9
power transmission mechanism			44		24		35	36	25	21	17	23	32	24	23	19	26	24	16	20	29	23	16	19	496
circular sawing machine			517		446		384	330	300	284	241	248	225	220	211	208	191	185	170	189	167	161	154	158	4,989
band sawing machine			166		134		106	80	101	67	70	51	69	53	44	55	43	43	42	38	28	38	30	37	1,295
wood planer machine			111		76		81	70	65	69	61	59	73	36	46	57	40	36	45	37	50	37	40	43	1,132
hollow chisel mortiser, wood borer			33		19		22	12	25	16	10	12	7	13	20	11	11	11	11	8	7	4	5	11	268
chamfering																									

machine, router, woodworking milling machine			32		38		23	24	26	18	17	10	18	11	17	19	15	15	15	15	11	14	5	6	349
chain saw			22		30		12	23	12	17	17	19	7	22	8	14	8	7	7	4	5	9	9	7	259
other woodworking machines			400		341		313	282	292	234	187	204	193	232	192	193	171	171	169	151	158	124	157	140	4,304
leveling, transporting or loading machine			2		1		1	2	5	3	1	2	1	2	2	2	1	3		1	3	3	4		39
excavating machine			1		1		1		3			2	1	2	2	1			1	3	3	1	2	1	25
foundation work machine											1														1
hardening machine									1																1
demolition machine								1	1			1					1					1		4	9
vehicle for high lift work													1												1
other construction machines			3		3				3		1		1	1	1		1		1		1		1		17
lathe			3		1		1	1		4							2			1			2		15
drill press, milling machine			5		4		5	2	3		1	2	1	4	2	2	2	1		1	1	1	1	4	42
grinding machine, buffing machine			5		3		4	1	2	4	2	2	5	4	1		2	3	2	3	7	1		1	52
power press			1		5		4	2	3	1		5	1		1		2	2	1	2	3	1		1	35

forging pressure hammer					1																				1
shearing machine			1					2	1		1	1	1	1	1	1									10
other metal manufacturing machines			4		6		4	6	8	5	4	4	6	5	4	4	5	3	1	1	6	4		4	84
centrifugal machine								1		1						1		1							4
mixer, grinder			1		5		4	6	7	3	2	4	1	2	1	4	3	2	3	1	2	4	1	2	58
roll machine (except printingroll machine)			17		19		21	28	14	18	16	18	8	14	9	10	8	12	9	8	5	9	9	7	259
injection molding machine													1			1				1				1	4
food manufacturing machine			3																						3
printing machine			1		2		1	3	2	1	1		1	1	1	1	2			1			1	1	20
industrial robot								1			1			1									1		4
other general power machines			95		83		78	71	48	70	44	37	58	44	47	37	47	47	46	48	43	35	36	42	1,056
felling machine																	3	4	1		3	2	1	1	15
mobile logging machine																				1	1		1	1	4
skyline yarding machine																									

other mobile silviculture machine																	1		1			1			3
crane			10		5		9	8	10	8	4	4	3	2	4	2	5	1	3	3	2	4	1	3	91
mobile crane			4		6		5	6	3	4	7	4	1	3	1	6	3	3	5	3	2	4	2	2	74
derrick crane					1																				1
elevator, lift			5		1		2	6		1	3		2		4	3	4	2			2		2	1	38
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway			1					1		2	2	1										1			8
simple skyline yarding equipment																									
other powered crane			2		1		2	4	1	2	1	1	1	3	1				3		2				24
truck			94		66		57	58	67	50	42	54	47	31	56	36	34	40	41	45	31	48	46	25	968
forklift			90		82		81	70	70	67	49	39	52	60	42	51	49	48	46	39	35	47	45	46	1,108
railway equipment			1				2		3		2		2				1					1			12
conveyor			151		138		131	123	134	103	76	101	91	98	79	78	67	71	76	55	83	61	72	74	1,862
loader					4		1	3	3		1	2	3	2	2	4	5	2	3	1	3	2	3	3	47
straddle carrier																									
rough terrain hauler					1						1									1					3
other powered																									

conveying machines			17		18		10	7	7	7	8	14	10	8	7	11	2	7	13	5	7	6	4	1	169
cars, bus, motorcycle			10		11		6	5	5	4	4	7	4	9	8	6	10	3	4	5	5	4	4	15	129
railway vehicle																									
other vehicles			1		1					1	2			1		1									7
boiler			3					1	3	1	1	2			2		1	1	1	1	1			1	19
pressure vessel													1				1						1		3
other pressure vessels																2									2
chemical facilities											1	1													2
gas welding equipment											2														2
arc welding equipment														1					2						3
other welding equipment																							1		1
kiln, caldron			6		5		8	1	2	3	2	1	2	2		1		1	2	1	2			3	42
industrial dryer					2			1		1	2		2		2	2			2					1	15
other kiln, caldron								1	1		1					1				3					7
transmission							3		1	2	1	2		4				1	2				1	1	18
electric power facilities					1			1					1	2		1	1	1	1						9
other electrical							2		2	1								1			1		1		8

equipment																									
human power cranes					1		1	1	1	1				1		1				1	1	1	2	4	16
human power hauling equipment			25		14		23	17	16	12	10	9	6	11	6	6	9	11	9	10	7	4	7	4	216
human power machine			5		1		1	1	1	1			1			1	4	1				1			18
hand tool			49		50		32	32	45	41	35	20	25	23	26	22	23	13	20	19	24	15	15	24	553
ladder			59		40		47	37	31	31	31	18	23	25	37	29	31	29	24	24	23	22	31	28	620
slinging tool			2		5		6	4	7	1	3	4	2	1	3	4	4	1	1	5				1	54
other tools			42		35		35	25	24	27	19	25	17	15	20	18	14	19	29	17	27	23	18	25	474
other equipment, facilities			39		25		33	22	17	22	12	12	13	10	19	14	18	9	12	17	15	8	14	13	344
scaffolding			3		7		4	1	10	3	4	1	5	4	4	5	6			6	6	3	1	1	74
timbering									1						1										2
stairs, landing stage			28		25		17	19	22	20	20	13	16	15	17	11	12	19	5	22	16	12	19	13	341
opening			2		4		1	3	5	4	2	3	2		3	3	2	1		3	8	1	3	7	57
roof, beam, haze, crossbeam, principal rafter			16		11		8	11	8	7	7	7	8	11	7	12	3	2	7	1	11	3	4	4	148
working platform, boot board			51		40		37	48	49	23	35	29	26	22	23	30	24	30	19	29	19	17	23	22	596
passage			101		75		76	79	58	64	56	36	41	50	33	52	47	60	52	68	56	54	45	68	1,171
building,																									

establishment			26		16		19	32	22	19	12	14	21	10	21	16	16	12	16	15	7	6	12	11	323
other temporary buildings, establishments			13		20		16	16	14	14	16	8	10	14	9	8	8	5	10	11	9	3	9	10	223
explosive substance			1											1		1									3
inflammable substance					2		2	1	2								1		1					1	10
inflammable gas										1															1
harmful substance					1		2		1	1		1		1	2			1		1	1		1	1	14
radiation																									
other hazards, harmful substances			2		1		1	3	4		3		1	1		1	1	1	2	1	1	1			24
metal material			47		38		36	34	25	24	15	26	15	20	15	17	12	11	16	12	10	9	10	14	406
lumber, bamboo			526		388		349	320	279	240	190	190	193	189	190	161	151	152	141	150	129	138	137	120	4,333
stone, sand, substance			5		1		2		1			2	1	3		2			1	1			1	1	21
other materials			11		11		6	7	3	5	5	6	7	14	4	7	8	10	5	2	5	2	2	1	121
load			47		47		35	32	36	28	25	22	20	32	26	18	25	17	20	22	25	17	21	20	535
machine/equipment as load			2		2		3	2	3	3	3	2			1	2	1	2			2	3	1	4	36
natural ground, rock			4		6		3	8	2	3	3		1	2	1	1	1	4	2	1	1	4	1	1	49
standing tree			9		14		10	7	8	5	9	8	4	5	5	7	4	4	5	4	9	3	4	4	128

water							1			1			18		1						1				22
abnormal environment															3										3
high/cold temperature environment			5		1		1	4	3	1	1	8	6	5	4	7	3	6	5	8	4	10	3	5	90
other environments			16		14		13	8	9	8	2	7	10	7	8	16	4	9	17	15	4	6	10	12	195
other causal agent			12		18		9	9	7	6	5	5	9	3	8	7	4	3	2	4	4	4	44	3	166
no causal agent			35		28		32	27	32	26	26	33	26	24	22	24	29	22	24	28	26	23	26	19	532
unclassifiable			2		6		4	3	1	2	4		2	1	4	2			1	3	1	1	1	1	39
total	3,604	3,422	3,048	2,486	2,533	2,375	2,284	2,093	2,006	1,739	1,463	1,446	1,462	1,438	1,365	1,350	1,233	1,206	1,191	1,196	1,161	1,045	1,124	1,110	43,380

Workers age of fatal and non-fatal accidents in wood products 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	80	85	82	57	60	66	68	42	38	19	21	27	29	38	36	30	21	20	32	16	20	12	13	18	930
20-29	507	525	468	353	377	354	383	301	284	257	205	232	180	196	215	181	169	163	170	158	160	123	134	141	6,236
30-39	406	475	379	358	384	393	373	358	331	312	288	278	281	286	249	231	236	221	215	200	184	159	165	160	6,922
40-49	683	598	533	434	409	392	341	380	320	290	256	243	280	286	258	301	262	266	253	272	243	230	255	227	8,012
50-59	1,061	958	877	681	698	661	599	584	549	444	349	314	337	301	298	287	248	247	259	251	253	251	269	274	11,050
60 years old or more	867	781	709	603	605	509	520	428	484	417	344	352	355	331	309	320	297	289	262	299	301	270	288	290	10,230
total	3,604	3,422	3,048	2,486	2,533	2,375	2,284	2,093	2,006	1,739	1,463	1,446	1,462	1,438	1,365	1,350	1,233	1,206	1,191	1,196	1,161	1,045	1,124	1,110	43,380

Workers' number of workplace of fatal and non-fatal accidents in wood products 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	1,493	1,439	1,272	1,100	1,097	991	926	845	748	655	585	557	580	504	474	467	405	386	396	356	372	300	318	294	16,560
10-29	1,381	1,246	1,163	868	945	880	852	739	726	639	508	514	458	500	455	474	447	415	408	423	386	361	379	414	15,581
30-49	376	349	289	258	246	242	260	226	232	192	157	159	166	178	203	202	163	182	173	180	181	172	170	183	5,139
50-99	197	243	206	145	130	167	136	161	160	139	103	122	156	141	110	118	111	121	125	159	139	113	142	118	3,462
100-299	132	120	102	108	103	91	98	109	121	105	96	86	93	107	112	84	104	88	79	70	68	82	89	86	2,333
300 workers or more	25	25	16	7	12	4	12	13	19	9	14	8	9	8	11	5	3	14	10	8	15	17	26	15	305
total	3,604	3,422	3,048	2,486	2,533	2,375	2,284	2,093	2,006	1,739	1,463	1,446	1,462	1,438	1,365	1,350	1,233	1,206	1,191	1,196	1,161	1,045	1,124	1,110	43,380

Month of fatal and non-fatal accidents in wood products 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	263	276	267	203	190	186	175	175	149	162	121	112	119	116	106	122	98	110	95	103	111	93	126	110	3,588
February	320	329	265	199	205	180	205	171	155	153	119	109	143	146	100	122	92	103	88	90	99	99	85	86	3,663
March	325	336	297	194	241	246	206	180	192	146	131	124	162	134	139	121	115	101	123	118	79	95	94	105	4,004
April	307	273	253	204	196	214	189	164	170	158	130	102	114	111	120	109	108	98	89	94	95	82	102	78	3,560
May	294	281	250	222	222	182	185	164	199	136	119	123	112	114	113	127	99	77	100	98	105	85	81	74	3,562
June	305	299	253	202	213	201	210	200	182	137	113	113	116	109	110	122	116	101	100	96	96	98	74	90	3,656
July	357	277	253	253	205	200	208	193	185	171	104	143	121	111	125	100	111	112	99	114	90	80	91	92	3,795
August	299	271	251	191	208	186	203	171	166	143	120	124	121	124	114	89	91	92	104	85	91	71	94	85	3,494

September	299	273	231	187	231	189	182	160	151	138	142	127	120	94	107	106	104	113	96	103	94	86	105	86	3,524
October	313	262	237	234	247	209	179	188	167	145	125	135	106	119	101	107	109	106	102	108	117	83	108	99	3,706
November	250	257	249	204	196	189	174	164	159	111	126	124	127	134	131	102	90	93	104	88	89	79	86	98	3,424
December	272	288	242	193	179	193	168	163	131	139	113	110	101	126	99	123	100	100	91	99	95	94	78	107	3,404
total	3,604	3,422	3,048	2,486	2,533	2,375	2,284	2,093	2,006	1,739	1,463	1,446	1,462	1,438	1,365	1,350	1,233	1,206	1,191	1,196	1,161	1,045	1,124	1,110	43,380

Prefecture of fatal and non-fatal accidents in wood products 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	271	270	219		187		187	159	177	130	117	105	125	110	90	106	88	82	95	98	77	84	92	83	2,952
Aomori	56	48	22		26		19	14	12	15	15	12	13	15	9	8	10	9	12	14	14	14	10	14	381
Iwate	63	61	78		53		39	36	50	33	30	43	29	39	41	41	39	31	30	35	30	29	34	39	903
Miyagi	50	43	51		41		35	39	45	33	19	10	35	18	14	27	15	14	23	23	22	14	7	21	599
Akita	82	91	56		38		38	55	47	47	25	38	32	38	34	32	26	40	39	50	30	33	34	26	931
Yamagata	34	43	30		29		20	14	24	25	8	13	12	16	19	17	16	17	16	10	13	13	6	16	411
Fukushima	86	80	74		59		63	64	55	43	40	38	39	45	35	39	34	33	30	35	24	22	33	26	997
Ibaraki	56	73	60		52		60	55	55	37	33	31	25	33	45	32	38	28	27	28	36	25	25	32	886
Tochigi	74	46	60		42		44	33	33	42	32	29	27	41	27	34	32	31	13	24	29	27	29	28	777
Gunma	69	70	61		54		50	38	29	33	31	38	36	30	26	31	20	24	21	24	18	22	31	21	777
Saitama	66	66	58		50		59	58	43	40	26	21	24	25	27	40	31	29	27	19	19	24	24	21	797
Chiba	50	66	53		50		45	42	30	36	38	34	37	29	31	22	23	36	29	24	23	17	24	20	759
Tokyo	69	42	51		45		26	36	34	36	33	23	23	16	18	16	18	14	15	13	16	11	10	9	574
Kanagawa	29	28	31		29		27	22	19	23	12	16	19	15	16	14	13	12	8	22	15	1	9	11	391

Niigata	74	68	73		51		43	47	33	33	32	25	25	27	26	31	26	25	33	20	20	24	15	16	767
Toyama	75	80	63		52		53	46	39	23	22	24	24	26	21	31	19	19	17	17	17	13	17	19	717
Ishikawa	41	28	32		21		17	19	14	14	16	7	11	13	12	18	14	10	9	14	7	7	9	15	348
Fukui	36	34	21		12		24	21	26	23	18	22	20	25	8	9	10	13	12	17	10	9	3	13	386
Yamanashi	21	19	15		18		13	9	8	6	10	7	7	10	7	8	6	6	3	4	2	7	15	4	205
Nagano	74	45	40		42		37	38	29	28	20	23	25	15	22	15	18	20	16	16	10	15	20	33	601
Gifu	149	136	129		81		88	79	65	46	50	47	51	39	53	39	44	37	48	34	41	31	55	32	1,374
Shizuoka	202	231	182		133		103	93	111	80	65	83	76	58	55	66	45	56	38	64	54	41	36	44	1,916
Aichi	185	176	159		136		107	107	104	83	91	74	89	70	64	63	45	66	71	58	59	45	41	66	1,959
Mie	107	114	101		81		59	58	53	52	43	45	38	30	25	27	38	34	28	18	24	24	21	19	1,039
Shiga	41	31	24		24		29	24	23	24	17	13	17	13	14	16	13	9	7	15	19	13	19	13	418
Kyoto	47	31	36		34		35	27	24	19	16	17	22	19	22	20	18	11	19	15	14	22	20	9	497
Osaka	124	151	148		103		94	81	91	82	54	64	59	57	60	45	62	42	48	44	46	37	42	34	1,568
Hyogo	97	91	90		69		59	55	45	40	49	38	49	43	31	42	36	30	26	31	22	18	18	27	1,006
Nara	85	81	83		77		66	68	65	59	36	55	39	42	49	62	41	41	30	40	40	41	48	25	1,173
Wakayama	67	69	52		50		33	35	42	23	23	28	34	19	22	16	20	13	23	16	17	18	18	16	654
Tottori	15	29	17		12		5	9	15	17	10	12	9	11	8	8	11	9	6	5	11	13	11	6	249
Shimane	59	52	36		24		27	31	24	15	20	11	15	23	11	15	17	20	25	23	14	13	16	20	511
Okayama	80	64	68		72		57	41	41	38	21	16	28	33	33	23	17	23	28	28	26	32	21	32	822
Hiroshima	137	135	102		80		81	70	53	57	41	40	36	55	45	44	42	38	43	33	34	33	44	36	1,279
Yamaguchi	36	46	36		32		34	24	29	25	23	16	18	25	27	15	9	19	9	7	13	16	18	16	493
Tokushima	88	76	73		59		57	36	43	31	23	25	23	25	35	20	21	13	15	16	24	13	16	19	751
Kagawa	37	34	31		44		28	15	16	17	11	11	12	10	12	16	14	8	8	13	11	7	7	7	369

Ehime	97	87	76		58		59	61	41	45	32	26	29	27	36	31	31	28	30	23	34	31	24	31	937
Kochi	63	55	53		57		32	36	34	27	25	24	17	20	14	15	26	26	24	17	18	18	17	15	633
Fukuoka	105	112	91		80		71	63	50	55	30	40	33	39	42	49	27	37	25	32	34	16	23	21	1,075
Saga	24	19	20		18		15	18	7	14	13	10	12	7	7	6	5	9	8	6	9	10	14	4	255
Nagasaki	19	17	17		8		15	13	9	14	10	12	5	9	6	8	9	8	8	12	11	5	8	10	233
Kumamoto	83	62	65		52		54	38	52	42	36	41	34	36	39	36	27	26	27	24	38	21	32	23	888
Oita	100	92	93		82		62	54	71	47	51	41	37	39	29	30	45	40	36	42	37	37	29	25	1,119
Miyazaki	127	80	77		81		74	72	71	54	61	72	70	74	71	44	57	47	57	42	45	55	52	67	1,450
Kagoshima	51	44	38		33		37	37	23	30	32	25	16	25	20	20	10	20	26	25	32	20	25	23	612
Okinawa	3	6	3		2		4	3	2	3	3	1	6	4	7	3	7	3	3	6	2	4	2	3	80
total	3,604	3,422	3,048	2,486	2,533	2,375	2,284	2,093	2,006	1,739	1,463	1,446	1,462	1,438	1,365	1,350	1,233	1,206	1,191	1,196	1,161	1,045	1,124	1,110	43,380

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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Fatal accidents in wood products in Japan in 1999-2022

wood products industry Code No.0104

Type of fatal accidents in wood products 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	4	4	2	2	6	2	5	2	2	1	2	4	1	1	3	2	2	1	1	1	1	1	2	1	53
falling to same level	1	2		1	1			1		1	1				1										9
crash					1			1								1									3
struck by flying or falling object	5	2	2	1		1	1	3		1	1			1					2	1		1			22
collapse	2	2	4		2	1	2	2	1	2			2				1		1						22
crashed by	4	5	2	3	1	1	1			1	1		1		1		2	1	1	1	2		2		30
caught in/between	2	7	9	6	7	5	4		4	9	3	3	4	4	6	7	2	6	1	5	6	5	2	5	112
cut	1		1		2		1						2			1				1	1				10
injury to the sole of the foot																									
drown	1	1											16												18
contact to high/low-temperature							1					2											1	1	5
contact to harmful substance															3										3
electric shock								1																	1
explosion						1																			1
burst																									
fire																								1	1
traffic accident (public road)	1		1	1	1		1		1	1					1			1		1				1	11
traffic accident (others)																									
reaction to motion/improper motion																									

others								1			1		1		1					1					5
unclassifiable											1														1
total	21	23	21	14	21	11	16	11	8	16	10	9	27	6	16	11	7	9	6	11	10	7	7	9	307

Causal agents (large) of fatal accidents in wood products 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	8	7	9	6	7	4	7	5	3	7	1	1	4	2	5	4	3		1	7	6	3	2	1	103
crane, conveying machine	4	5	5	4	8	4	5	1	2	6	4	5	4	3	5	5	1	8	2	1	4	4	2	5	97
other equipment	1	3			2											1		1	1	2				1	12
temporary buildings, establishments	2	1	2	2	3	1	1		2	2	2	1		1	2	1			1				3		27
substance, material	3	3	3	1		2	2	3			1		1				1		1	1				1	23
load	1	2	2		1				1	1			1												9
environment	2	2		1			1	2				2	17		3		1							1	32
others											2				1		1								4
total	21	23	21	14	21	11	16	11	8	16	10	9	27	6	16	11	7	9	6	11	10	7	7	9	307

Causal agents (middle) of fatal accidents in wood products 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										2					1										3

woodworking machine	7	7	9	3	3	3	6	3	3	3	1	1	4	2	3	3	2		1	6	5	2	2	1	80
construction machine				1	1	1		1		1					1						1				7
metal manufacturing machine																									
general machine	1			2	3		1	1		1						1	1			1		1			13
mobile silviculture machine																									
crane		2	1		3	1		1								2		1	1		1				13
conveying machine	4	3	4	4	4	3	3		2	6	4	5	4	3	4	3	1	7	1	1	2	4	2	4	78
vehicle					1		2								1						1			1	6
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																				1					1
tools	1	2			2											1		1	1					1	9
other equipments, facilities		1																		1					2
temporary buildings, establishments	2	1	2	2	3	1	1		2	2	2	1		1	2	1			1				3		27
hazards, harmful substances						1																			1
materials	3	3	3	1		1	2	3			1		1				1		1	1				1	22
load	1	2	2		1				1	1			1												9
natural environment	2	2		1			1	2				2	17		3		1							1	32
other causal agent											1														1

no causal agent															1										1
unclassifiable											1						1								2
total	21	23	21	14	21	11	16	11	8	16	10	9	27	6	16	11	7	9	6	11	10	7	7	9	307

Causal agents (small) of fatal accidents in wood products 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
engine																									
power transmission mechanism										2					1										3
circular sawing machine	3	2	1		1	1	1			1	1			1			1								13
band sawing machine	2		2		2		1	2	1			1	2			3				1	1				18
wood planer machine			1				1														1				3
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine									1																1
chain saw		1																							1
other woodworking machines	2	4	5	3		2	3	1	1	2			2	1	3		1		1	5	3	2	2	1	44
leveling, transporting or loading machine						1		1		1					1						1				5
excavating machine																									
foundation work machine																									
hardening machine																									

demolition machine																									
vehicle for high lift work																									
other construction machines				1	1																				2
lathe																									
drill press, milling machine																									
grinding machine, buffing machine																									
power press																									
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines																									
centrifugal machine																									
mixer, grinder										1															1
roll machine (except printingroll machine)				1	1																				2
injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot				1																					1
other general power machines	1				2		1	1								1	1			1		1			9
felling machine																									
mobile logging machine																									

skyline yarding machine																									
other mobile silviculture machine																									
crane					1																1				2
mobile crane		2			1	1		1								1			1						7
derrick crane																									
elevator, lift																1		1							2
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane			1		1																				2
truck	3		1	1		1	2		1	1	1	1					1	1		1		1			16
forklift	1	1		2	1	1				3	2	2	3	1	1	1		1					1		21
railway equipment																									
conveyor		1	2	1	3	1	1		1	2	1	1	1	2	1	1		4			1	1		3	28
loader		1																1							2
straddle carrier																									
rough terrain hauler																									
other powered conveying machines			1									1			2	1			1		1	2	1	1	11
cars, bus, motorcycle					1		2								1						1			1	6
railway vehicle																									

other vehicles																									
boiler																									
pressure vessel																									
other pressure vessels																									
chemical facilities																									
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									
transmission																									
electric power facilities																									
other electrical equipment																									
human power cranes																									
human power hauling equipment																				1					1
human power machine																									
hand tool																									
ladder		1			2											1		1						1	6
slinging tool	1	1																	1						3
other tools																									
other equipment, facilities		1																		1					2
scaffolding	1														1										2

timbering																									
stairs, landing stage															1										1
opening						1																	1		2
roof, beam, haze, crossbeam, principal rafter	1	1	1		3				1	2	1			1		1			1						13
working platform, boot board				1					1																2
passage				1																					1
building, establishment							1				1												2		4
other temporary buildings, establishments			1									1													2
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance																									
radiation																									
other hazards, harmful substances						1																			1
metal material	1																								1
lumber, bamboo	2	3	3	1		1	2	3			1		1				1		1	1				1	21
stone, sand, substance																									
other materials																									
load	1	2	2		1				1	1			1												9
machine/equipment as load																									
natural ground, rock				1				1																	2

standing tree	1	1															1								3
water	1	1											17												19
abnormal environment															3										3
high/cold temperature environment							1	1				2												1	5
other environments																									
other causal agent											1														1
no causal agent															1										1
unclassifiable											1						1								2
total	21	23	21	14	21	11	16	11	8	16	10	9	27	6	16	11	7	9	6	11	10	7	7	9	307

Workers age of fatal accidents in wood products 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	1		2	1	1		2						1							1	1				10
20-29	3		3		3		2	1		3		1	5	2	1	2					2	1		1	30
30-39	1	1	2	2	1	1	3	1	3	4	1	1	6		2	4		1	1			1			36
40-49	1	4	4	2	1		1	2	1		3	2	1	1	2	1	1	2		6	3	2	1	3	44
50-59	5	8	6	4	7	7		4	2	4	3	3	8	1	7	2	4	2	4	2		2	2	3	90
60 years old or more	10	10	4	5	8	3	8	3	2	5	3	2	6	2	4	2	2	4	1	2	4	1	4	2	97
total	21	23	21	14	21	11	16	11	8	16	10	9	27	6	16	11	7	9	6	11	10	7	7	9	307

Workers' number of workplace of fatal accidents in wood products 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	11	13	4	5	8	5	3	3	3	7	2	2	5	2	6	2	4	1	1	2	4			3	96
10-29	4	6	6	4	7	2	10	4	4	5	5	2	4		2	8	2	4	4	5	3	1	4	2	98
30-49	5		6	2	3	2		1	1	3	1	1	12	2	6	1		2			2		2		52
50-99		3	1	3	3	1		1				3	3	1	1			1		1	1	2		2	27
100-299	1		3			1	3	2		1	2	1	3	1			1			3		4	1	2	29
300 workers or more		1	1												1			1	1						5
total	21	23	21	14	21	11	16	11	8	16	10	9	27	6	16	11	7	9	6	11	10	7	7	9	307

Month of fatal accidents in wood products 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		2	3	3	3	1		1	3	3	2	1	1	2		2				1	3		1	1	33
February	4	3		1	3			1	2		3			1		1		1	1		1			1	23
March	2	1	2			4	1	1		1	1		17		6	1					1	1	1		40
April	2	1		2	2	1				1			3		1		2	1			1	1			18
May	2	2	3	3	2	1	1			2	1						1			1					19
June			1		1		2	1	1	1		1	1		2	2	1			1	1	1	1	2	20
July	1	4	1	2	2		4	1		1	1			1	1			2	1	1		1	1		25
August	3	1	5		2		2	2	1	1		2	1	1				2	1	1	1			2	28
September	1	2	1		1		2			2		2	1		2	1	1	1		1			1		19
October	1	3	2	1	2	1	1	1			1	1	1			1				2	1			2	21

November	2	3	1	1	3	2	1	2		2	1	1	1	1	2		1	1	2	2	1	1	1	1	33
December	3	1	2	1		1	2	1	1	2		1	1		2	3	1	1	1	1		2	1		28
total	21	23	21	14	21	11	16	11	8	16	10	9	27	6	16	11	7	9	6	11	10	7	7	9	307

Prefecture of fatal accidents in wood products 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	2	1	2	2	1	2	3	1		3	1									1		1	1		21
Aomori			2																						2
Iwate			2					1			1		2	1	1				1			1		1	11
Miyagi		1	1		2	1							14											2	21
Akita	1		2					1	1	1	1				1					1			1		10
Yamagata											1														1
Fukushima	1		1	1	1		1			1		1	3												10
Ibaraki	1	1	1		1		2									1					1			1	9
Tochigi			1	1						2															4
Gunma			1									1			1		1						1		5
Saitama		1		2					1						1										5
Chiba	1				1		1									1									4
Tokyo			1	1		1																			3
Kanagawa																									
Niigata	1			1			1			1					1										5
Toyama	1	1			1		1			1											1				6

Ishikawa			1																1						2
Fukui														1										1	2
Yamanashi																	1			1			1		3
Nagano		2			1				1				1												5
Gifu	1					1									3		2		2	1		1	1		12
Shizuoka		3		1	3		1			1		2	1	1	1			1		1	1				17
Aichi		2			1			2				1			2	3					1			1	13
Mie	1	2		2				1	1										2						9
Shiga	1		1																	1	1	1			5
Kyoto			1								1						1								3
Osaka	2	1				1			1				1									1		1	8
Hyogo					1						1									1	1			1	5
Nara		1	1		2			1	1	1			1					3							11
Wakayama	1	1															1								3
Tottori			1									1													2
Shimane	1	3										1	1							1					7
Okayama						2					2							1		1					6
Hiroshima	1			1		1	1	1		1					1			2							9
Yamaguchi		1		1				1																	3
Tokushima	3	1	2		1		1							1	1	1				1					12
Kagawa					1								1	1		1									4
Ehime		1			1			1						1	1			1		1	1				8
Kochi				1					1		1	1			1	1					1				7

Fukuoka					2	1				1			1										1		6
Saga	1																					1	1		3
Nagasaki							1									1									2
Kumamoto							1	1	1	1					1		1				2				8
Oita							1						1			1									3
Miyazaki	1				1	1	1			1	1	1				1		1				1		1	11
Kagoshima										1															1
Okinawa																									
total	21	23	21	14	21	11	16	11	8	16	10	9	27	6	16	11	7	9	6	11	10	7	7	9	307

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

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