

Fatal and non-fatal accidents in plywood in Japan in 1999-2021

plywood industry Code No.010402

Type of accidents in plywood 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	23	26	20	15	15	10	16	18	21	15	22	9	5	17	17	16	15	10	14	16	10	18	20	368	fall from height
falling to same level	18	29	19	22	13	15	24	25	17	13	12	13	15	16	10	18	17	20	12	23	17	9	19	396	falling to same level
crash	13	7	10	9	7	11	6	12	11	7	5	4	4	6	10	5	3	3	6	5	7	10	4	165	crash
struck by flying or falling object	28	27	29	26	20	12	20	26	15	10	9	11	8	15	15	8	6	13	10	6	8	10	7	339	struck by flying or falling object
collapse	13	7	7	5	7	6	8	8	8	9	7	5	3	2	3	3	4	1	2	1	3	2	2	116	collapse
crashed by	19	13	12	13	13	16	7	16	14	8	6	8	5	9	9	5	7	8	7	11	8	7	8	229	crashed by
caught in/between	118	121	113	94	97	96	100	83	88	82	54	65	73	71	54	57	48	65	49	42	55	48	49	1,722	caught in/between
cut	55	48	43	49	41	43	34	36	40	27	25	21	30	24	37	18	23	28	25	30	28	18	18	741	cut
injury to the sole of the foot	1				1		2	1													1			6	injury to the sole of the foot
drown		1											12											13	drown
contact to high/low-temperature	3	5	4	4	2		4	3	3	3	4	6	1	3	4	3	1	5	4	2		3	1	68	contact to high/low-temperature

engine										2													2	engine	
power transmission mechanism			5		4		7	8	4	2	4	6	3	5	6	2	5	6	3	1	3	2	6	82	power transmission mechanism
circular sawing machine			23		27		15	18	20	16	12	13	21	17	21	10	16	17	12	13	17	10	13	311	circular sawing machine
band sawing machine			3				1	1	1	4	2	1	1	3	1			1			1			20	band sawing machine
wood planer machine			4		5		6	8	4	4	3	3	6	3	2	3	3	3	1	5	6		6	75	wood planer machine
hollow chisel mortiser, wood borer			4		1		2				1		1		2	1				2			1	15	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine			4		5		4	3	4	1	1			2	1	4	1	2	2	2	1	2		39	chamfering machine, router, woodworking milling machine
chain saw								1	1									1				1		4	chain saw
other woodworking machines			46		54		47	33	37	34	26	24	31	32	23	28	21	37	27	34	25	24	23	606	other woodworking machines
leveling, transporting or loading machine																									leveling, transporting or loading machine
excavating machine													1										1	2	excavating machine
foundation work machine																									foundation work machine

machine																			1					1	machine
food manufacturing machine			1																					1	food manufacturing machine
printing machine			1		2		1							1	1									6	printing machine
industrial robot																									industrial robot
other general power machines			20		13		13	16	11	9	7	8	10	9	9	8	10	10	8	10	9	5	7	192	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			2				1	1	4							1		1	2	1				13	crane
mobile crane										1								1						2	mobile crane
derrick crane																									derrick crane
elevator, lift			2				1	2			2		1		1		1						1	11	elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway									1															1	lumberyard equipment, logging cableway

facilities			6		2		4	5	3	3	2	1	3	2	4	3	4	2	2	4	5		2	57	facilities
scaffolding					2				1						1		1			2	2			9	scaffolding
timbering									1															1	timbering
stairs, landing stage			3		3		3	2		2	2	1	2	1	3	2	1	4		2	1	2	7	41	stairs, landing stage
opening					2			1	1	1			1								1		1	8	opening
roof, beam, haze, crossbeam, principal rafter							2	1						3	1				1					10	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			3		7			7	6	1	5	5	3	5	3	5	4	3	2	3	3	3	1	69	working platform, boot board
passage			10		2		13	10	10	8	7	3	6	8	5	10	12	9	5	17	5	8	4	152	passage
building, establishment			5		2		2	6	5	2		1	1	2	2	4	2	1	2	2	1		1	41	building, establishment
other temporary buildings, establishments			1		2			3	1	3	1		1	2	4	3		1	2		1	1	2	28	other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance							1																	1	inflammable substance
inflammable gas																									inflammable gas
harmful substance							1											1					1	3	harmful substance
radiation																									radiation
other hazards, harmful substances			2					2	2		1		1	1								1		10	other hazards, harmful substances

metal material			4		3		5	4	2	4	1	3	1	2	1	3	2		1	1		1	1	39	metal material
lumber, bamboo			34		24		27	27	27	25	13	20	18	21	24	12	11	16	17	15	17	17	17	382	lumber, bamboo
stone, sand, substance																									stone, sand, substance
other materials			1					1			2			1	1	1	2	2	2			2		15	other materials
load			6		6		4	7	8	4	2	3	4	4	2			3	3	2	6	2	1	67	load
machine/equipment as load			1				1		1			1					1					1		6	machine/equipment as load
natural ground, rock																		1						1	natural ground, rock
standing tree												1										1		2	standing tree
water							1						13											14	water
abnormal environment															3									3	abnormal environment
high/cold temperature environment			1					1				4		2		1		2		1		2	1	15	high/cold temperature environment
other environments			2				3	2	2			1	1	1	2	6		2	3			2	1	28	other environments
other causal agent			2				1	3		1		1		1	1	1							24	35	other causal agent
no causal agent			2		4		3	3	5	9	3	2	4	4	4	4	1	3	2	2	5	2	4	66	no causal agent
unclassifiable								1			1				1	1				2				6	unclassifiable
total			268		232		231	242	236	192	150	149	167	174	180	147	135	163	140	149	148	137	168	3,408	total

Workers age of fatal and non-fatal accidents in plywood 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	11	12	6	7	9	4	10	6	4	6	6	3	1	6	4	4	7	1	8	2		2	1	120	19 years old or less
20-29	64	60	60	49	45	47	40	45	40	29	25	29	31	32	40	18	17	28	30	27	28	22	37	843	20-29
30-39	48	52	40	46	45	51	44	47	55	36	33	31	32	39	34	25	30	38	25	29	26	29	34	869	30-39
40-49	75	57	50	45	35	35	43	54	39	39	25	22	37	33	44	36	27	32	24	38	32	28	33	883	40-49
50-59	87	94	89	75	69	68	63	64	70	50	34	37	32	38	35	40	35	37	31	29	35	30	38	1,180	50-59
60 years old or more	27	30	23	31	29	25	31	26	28	32	27	27	34	26	23	24	19	27	22	24	27	26	25	613	60 years old or more
total	312	305	268	253	232	230	231	242	236	192	150	149	167	174	180	147	135	163	140	149	148	137	168	4,508	total

Workers' number of workplace of fatal and non-fatal accidents in plywood 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	50	47	57	53	40	36	44	50	30	40	23	17	23	27	24	22	14	16	18	13	17	11	12	684	9 workers or less
10-29	91	86	82	67	73	75	64	60	53	37	42	39	37	47	44	26	35	42	33	35	32	29	29	1,158	10-29
30-49	40	45	26	44	35	31	39	32	39	39	16	30	25	28	38	36	24	33	20	30	36	32	25	743	30-49
50-99	39	57	47	31	22	36	29	33	38	24	18	20	35	32	23	18	22	28	29	30	28	20	38	697	50-99
100-299	69	58	49	55	52	48	46	66	69	51	45	41	44	39	50	45	40	39	37	40	34	43	54	1,114	100-299
300 workers or more	23	12	7	3	10	4	9	1	7	1	6	2	3	1	1			5	3	1	1	2	10	112	300 workers or more
total	312	305	268	253	232	230	231	242	236	192	150	149	167	174	180	147	135	163	140	149	148	137	168	4,508	total

Month of fatal and non-fatal accidents in plywood 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	27	29	32	23	14	23	14	17	13	14	18	10	17	20	15	7	15	9	11	12	13	11	33	397	January
February	31	22	22	14	23	11	27	19	25	16	11	7	19	15	17	14	10	13	7	11	9	16	12	371	February
March	29	32	27	20	28	23	17	22	18	17	15	12	25	18	16	13	11	15	12	9	9	12	18	418	March
April	36	23	27	17	19	10	22	17	20	12	14	5	10	9	19	10	9	16	11	14	17	14	10	361	April
May	26	17	13	17	18	16	15	19	27	24	8	15	6	4	11	10	11	10	10	9	16	12	10	324	May
June	26	31	14	16	16	25	17	21	27	13	15	12	17	14	12	14	11	14	12	8	15	9	9	368	June
July	37	30	18	20	22	20	22	29	23	21	13	14	10	10	17	14	13	12	17	13	12	14	14	415	July
August	24	30	22	18	21	25	24	19	11	12	8	14	22	26	16	11	12	16	12	10	6	7	10	376	August
September	15	17	19	28	16	10	15	19	15	12	12	17	13	11	12	10	9	16	12	9	9	11	15	322	September
October	19	23	25	29	19	24	18	19	21	21	9	10	11	23	7	15	10	15	10	19	20	13	12	392	October
November	22	25	28	25	16	21	17	21	20	16	16	15	10	12	15	17	9	5	13	18	9	12	12	374	November
December	20	26	21	26	20	22	23	20	16	14	11	18	7	12	23	12	15	22	13	17	13	6	13	390	December
total	312	305	268	253	232	230	231	242	236	192	150	149	167	174	180	147	135	163	140	149	148	137	168	4,508	total

Prefecture of fatal and non-fatal accidents in plywood 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	30	20	21		17		19	16	21	21	10	12	16	23	10	19	5	12	16	13	8	12	9	330	Hokkaido
Aomori		1	1					1										3	3	5	4	4	4	26	Aomori
Iwate	10	5	6		6		8	3	9	6	5	10	4	5	1	7	5	7	5	6	7	2	3	120	Iwate

Miyagi	8	5	3		4		7	18	18	8	6	4	18	4	4	2	1	1	5	5	5	3		129	Miyagi
Akita	18	15	9		6		7	20	11	12	8	12	13	14	10	7	9	14	8	13	10	7	11	234	Akita
Yamagata	1	2	3		2		1	1	3		1	1		2	3	1	2	1	3	2	1	1		31	Yamagata
Fukushima	6	10	1		2		7	8	5	3	3	2	1	3	2	3	4	4	1	3	3	1	1	73	Fukushima
Ibaraki	3	3	3		2		5	5	5	5	6	7	6	5	8	4	4	6	2	4	5	2	5	95	Ibaraki
Tochigi	5	2	4		5		3	4	3	3	1	2	4	4	6	2	4	5	1	3	1	1	1	64	Tochigi
Gunma	3	2	5		2		7	2	5	3	2	3	2	1	1	1	1			2	1		4	47	Gunma
Saitama	5	8	6		5		5	9	3	2	4		2	3	3	5	1	3		4	2	3	1	74	Saitama
Chiba	3	6	5		4		1	7	7	9	7					3	3	4	6	2	1	3	2	73	Chiba
Tokyo	5	6	4		7		4	6	5	7	2	1	2	3			2	2			2			58	Tokyo
Kanagawa	1						2	1	1					2				2	2		2			13	Kanagawa
Niigata	1	3	6		5		7	7	7	6	6	3	2	2	4	6	4	3	5	2	1	3	2	85	Niigata
Toyama	4	5	3		1		3	2	3			1			1		1					1	1	26	Toyama
Ishikawa	9	6	7		3		2	2	3	2	4		2	3	4	4	3	3	2	5	1		3	68	Ishikawa
Fukui	5	3	3		1			1	1	1			2	3		1	3	1	2	4	2	2		35	Fukui
Yamanashi		2	4		1				1		1												2	11	Yamanashi
Nagano	1	2	1		1		1	2	2	1	2	2	2	1	2	2	2	1	1			3	1	30	Nagano
Gifu	19	20	15		9		5	12	5	1	7	4	6	7	7	5	5	10	6		4	5	27	179	Gifu
Shizuoka	16	18	15		18		15	8	8	14	5	3	3	5	3	12	4	5	3	8	4	3	2	172	Shizuoka
Aichi	30	33	24		24		16	21	16	11	20	17	18	17	7	4	6	13	9	9	11	10	5	321	Aichi
Mie	5	2	2		3		5	2	3	1	3	4	1	7			2	1	2	2	1	2	1	49	Mie
Shiga	7	1	1		2		4	1	5				1		1			1			1	1	1	27	Shiga
Kyoto	4		3		3		5	4	5	5	1	3	2	2	7	2	1	1			1	2	6	57	Kyoto

Osaka	10	10	9		12		11	10	11	15	8	9	9	8	14	7	9	9	13	10	5	9	10	208	Osaka
Hyogo	2	3	3		2		2	2			4		9	2	4	6	1	3		1	1	1	1	47	Hyogo
Nara	15	12	9		8		18	21	21	17	6	18	7	15	29	22	15	16	9	18	18	14	19	327	Nara
Wakayama	2	3	5		3		3	3	4		1		2	4	3	1		2	1	1	3	2	3	46	Wakayama
Tottori	1	12	3		2		1	2	3	2	6	5	6	4	2	1	6	2	2	1	5	10	6	82	Tottori
Shimane	19	12	12		9		8	5	9	3	4	5	5	7	6	2	9	10	11	8	7	5	8	164	Shimane
Okayama	8	2	1		6		2	6	4			2	5	3	4	1		1	2	1	3	7	1	59	Okayama
Hiroshima	17	9	7		9		14	7	5	7	3	6	5	2	5	4	6	5	3	1	4	5	8	132	Hiroshima
Yamaguchi	2	2	3		2				4	2	1	2	1	2	2								1	24	Yamaguchi
Tokushima	12	15	23		11		5	4	10	2	3	4	3	1	6	1	1	2		2	8	3	4	120	Tokushima
Kagawa	6	9	13		20		9	5	2	5	3	1	3	1	6	5	5	1	3	5	4	1	1	108	Kagawa
Ehime		2			1		3	2		2		1		2	4	1	3	3	2		4	5	2	37	Ehime
Kochi	1	3	5		1						1						1				1			13	Kochi
Fukuoka	5	13	8		7		4	6	2	7	1	2	1	3	2	4	1	3	3	5	2	1	1	81	Fukuoka
Saga		3	4				3			1			2	1	1		1		4		2	1	3	26	Saga
Nagasaki		2	1							1	1								1	1				7	Nagasaki
Kumamoto	4	3	4		3		3	1	3	2		1	1	1	1	1	1	1			1		4	35	Kumamoto
Oita							1	1		1					1		3		1	1				9	Oita
Miyazaki	4	3	1		2		3	1	2	3	3		1	2	5		1	2	1	1	1	1	3	40	Miyazaki
Kagoshima	5	6	2		1		1	1	1	1		2			1	1			1	1	1	1	1	27	Kagoshima
Okinawa		1					1	2			1								1					6	Okinawa
total	312	305	268		232		231	242	236	192	150	149	167	174	180	147	135	163	140	149	148	137	168	4,025	total

injury to the sole of the foot																								injury to the sole of the foot	
drown		1										12											13	drown	
contact to high/low-temperature												2											2	contact to high/low-temperature	
contact to harmful substance															3								3	contact to harmful substance	
electric shock																								electric shock	
explosion						1																	1	explosion	
burst																								burst	
fire																								fire	
traffic accident (public road)			1												1								2	traffic accident (public road)	
traffic accident (others)																								traffic accident (others)	
reaction to motion/improper motion																								reaction to motion/improper motion	
others								1				1		1									3	others	
unclassifiable																								unclassifiable	
total	1	3	7	2	2	2	2	3	2		3	4	16		6				1	3	2	3	2	64	total

hand tool																								hand tool
ladder																								ladder
slinging tool																								slinging tool
other tools																								other tools
other equipment, facilities																								other equipment, facilities
scaffolding																								scaffolding
timbering																								timbering
stairs, landing stage																								stairs, landing stage
opening																								opening
roof, beam, haze, crossbeam, principal rafter					1																		1	roof, beam, haze, crossbeam, principal rafter
working platform, boot board				1																			1	working platform, boot board
passage																								passage
building, establishment																								building, establishment
other temporary buildings, establishments											1												1	other temporary buildings, establishments
explosive substance																								explosive substance
inflammable substance																								inflammable substance

no causal agent															1									1	no causal agent	
unclassifiable																									unclassifiable	
total	1	3	7	2	2	2	2	3	2		3	4	16		6					1	3	2	3	2	64	total

Workers age of fatal accidents in plywood 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			1				1						1												3	19 years old or less
20-29			1				1	1				1	2		1										7	20-29
30-39			1			1			1				5		1					1					10	30-39
40-49		3	2	1							1	1	1		1					2		2			14	40-49
50-59	1		2	1	1	1		1			1	2	5		2					1		1			19	50-59
60 years old or more					1				1	1		1		2		1					2		2		11	60 years old or more
total	1	3	7	2	2	2	2	3	2		3	4	16		6					1	3	2	3	2	64	total

Workers' number of workplace of fatal accidents in plywood 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				6	9 workers or less
10-29		1						1	2				2								1				7	10-29
30-49			2		1							1	8		5								1		18	30-49
50-99		1	1	1		1						1	3							1					9	50-99

100-299	1		3			1	2	2			2	1	3						2		3	1	21	100-299	
300 workers or more		1	1																1					3	300 workers or more
total	1	3	7	2	2	2	2	3	2		3	4	16		6				1	3	2	3	2	64	total

Month of fatal accidents in plywood 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			2			1			1		2		1								1			8	January	
February		1		1				1	1															4	February	
March		1	1										13		4								1	20	March	
April																					1	1		2	April	
May			2	1																1				4	May	
June												1	1											2	June	
July							1				1									1	1			1	5	July
August			1					1				2	1											5	August	
September					1		1																	2	September	
October					1																1			2	October	
November	1	1	1			1		1							1							1		7	November	
December												1			1							1		3	December	
total	1	3	7	2	2	2	2	3	2		3	4	16		6				1	3	2	3	2	64	total	

Prefecture of fatal accidents in plywood in 1999-2021

