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

contact to harmful																									contact to
						1	1	1	1		1		1	1	3			1				1	1	13	harmful
substance																									substance
electric shock	2			2				1				1						1			1			8	electric shock
explosion	2	1				4			1										1					9	explosion
burst						1																		1	burst
fire																									fire
traffic accident (public		1	2		4	3								1	2		2		1				1	17	traffic accident
road)		1																					I	17	(public road)
traffic accident																									traffic accident
(others)																									(others)
reaction to																									reaction to
motion/improper	16	19	8	12	12	12	9	8	17	17	4	6	9	9	15	12	9	7	9	13	10	10	13	256	motion/improper
motion																									motion
others	1		1	2				2		1			1		1	1		1				1	25	37	others
unclassifiable								2			1					1								4	unclassifiable
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

Causal agents (large) of fatal and non-fatal accidents in plywood in 1999-2021

Causal (L) agents	1000	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)
Causar (L) agents		2000	2001	2002	2003	2004	2003	2000	2007	2000	2003	2010	2011	2012	2013	2014	2013	2010	2017	2010	2017	2020	2021		agents
machine	151	136	121	135	124	115	114	100	93	82	66	66	78	79	70	64	63	82	58	75	68	53	60	2,053	machine
crane, conveying																									crane,

machine	39	53	46	34	36	37	25	40	48	31	31	28	21	26	27	14	24	23	29	13	21	30	23	699	conveying
machine																									machine
other equipment	40	24	24	13	15	23	25	21	23	19	15	9	12	11	25	16	11	10	13	12	14	10	19	404	other
other equipment	40	24	24	13	13	23	25	21	23	19	13	9	12	11	23	10	11	10	13	12	14	10	19	404	equipment
tompovom buildings																									temporary
temporary buildings, establishments	20	31	22	23	20	14	20	30	25	17	15	10	14	21	19	24	20	18	12	26	16	14	16	447	buildings,
establistifferits																									establishments
substance material	49	46	41	35	27	34	34	34	31	29	17	23	20	25	26	16	15	19	20	16	17	21	19	614	substance,
substance, material	43	40	41	33	21	34	34	34	31	29	17	23	20	23	20		13	19	20	10	17	21	19	014	material
load	4	8	7	6	6	3	5	7	9	4	2	4	4	4	2		1	3	3	2	6	3	1	94	load
environment		3	3	4		1	4	3	2			6	14	3	5	7		5	3	1	1	4	2	71	environment
others	9	4	4	3	4	3	4	7	5	10	4	3	4	5	6	6	1	3	2	4	5	2	28	126	others
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

Causal agents (middle) of fatal and non-fatal accidents in plywood 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											2													2	engine
power transmission mechanism	7	6	5	3	4	5	7	8	4	2	4	6	3	5	6	2	5	6	3	1	3	2	6	103	power transmission mechanism
woodworking machine	108	108	84	99	92	76	75	64	67	59	45	41	60	57	50	46	41	61	42	56	50	37	43	1,461	woodworking machine

					1							1										1	4	construction machine
		1	5	3	2	2		1		1			1	1		4	1		1	3	2		31	metal manufacturing machine
22	:	31	28	25	31	30	28	21	21	14	19	14	16	13	16	13	14	13	17	12	12	10	452	general machine
																								mobile silviculture machine
5	[5	7		3	2	4	4	1	2		1	2	1		2		2	2	1		1	48	crane
47	,	40	27	33	32	23	36	44	30	29	26	20	24	24	14	21	23	26	10	20	30	22	637	conveying machine
1	1	1		3	2						2			2		1		1	1				14	vehicle
1		2			2		1				1					1	1						10	pressure vessel
										1	1												2	chemical facilities
										1								2					3	welding equipment
1			1	2	1			1	1					2	2			1	2				16	kiln, caldron
1			1		1		1		1											1		1	7	electric equipment
9	9	9	1	5	8	10	10	13	8	5	3	2	3	9	4	1	3	3	2	4	3	6	134	human power
	5 1 1 1 1	22 : 5 : 5 : 47 : 47 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1 :		22 31 28 5 5 7 47 40 27 1 1 2 1 1 1 1 1 1	22 31 28 25 5 5 7 47 40 27 33 1 1 3 1 2 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1	22 31 28 25 31 5 5 7 3 47 40 27 33 32 1 1 2 2 1 1 2 1 1 1 2 1 1 1 1 1	22 31 28 25 31 30 5 5 7 3 2 47 40 27 33 32 23 1 1 2 2 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	22 31 28 25 31 30 28 5 5 7 3 2 4 47 40 27 33 32 23 36 1 1 2 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22 31 28 25 31 30 28 21 5 5 7 3 2 4 4 47 40 27 33 32 23 36 44 1 1 2 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	22 31 28 25 31 30 28 21 21 5 5 7 3 2 4 4 1 47 40 27 33 32 23 36 44 30 1 1 2 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	22 31 28 25 31 30 28 21 21 14 5 5 7 3 2 4 4 1 2 47 40 27 33 32 23 36 44 30 29 1 1 2 2 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1	22 31 28 25 31 30 28 21 21 14 19 5 5 7 3 2 4 4 1 2 47 40 27 33 32 23 36 44 30 29 26 1 1 2 2 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22 31 28 25 31 30 28 21 21 14 19 14 5 5 7 3 2 4 4 1 2 1 47 40 27 33 32 23 36 44 30 29 26 20 1 1 2 2 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	22 31 28 25 31 30 28 21 21 14 19 14 16 5 5 7 3 2 4 4 1 2 1 2 47 40 27 33 32 23 36 44 30 29 26 20 24 1 1 2 2 1	22 31 28 25 31 30 28 21 21 14 19 14 16 13 5 5 7 3 2 4 4 1 2 1 2 1 47 40 27 33 32 23 36 44 30 29 26 20 24 24 1 1 2 1	22 31 28 25 31 30 28 21 21 14 19 14 16 13 16 5 5 7 3 2 4 4 1 2 1 2 1 2 47 40 27 33 32 23 36 44 30 29 26 20 24 24 14 1 1 2 1	22 31 28 25 31 30 28 21 21 14 19 14 16 13 16 13 5 5 7 3 2 4 4 1 2 1 1 2 1	22 31 28 25 31 30 28 21 21 14 19 14 16 13 16 13 14 5 5 7 3 2 4 4 1 2 1	22 31 28 25 31 30 28 21 21 14 19 14 16 13 16 13 14 13 5 5 7 3 2 4 4 1 2 1 2 1 2 2 2 47 40 27 33 32 23 36 44 30 29 26 20 24 24 14 21 23 26 1 1 3 2 1	22 31 28 25 31 30 28 21 21 14 19 14 16 13 16 13 14 13 17 5 5 7 3 2 4 4 1 2 1 2 1 2 2 2 2 47 40 27 33 32 23 36 44 30 29 26 20 24 24 14 21 23 26 10 1 1 3 2 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 <td< td=""><td>22 31 28 25 31 30 28 21 21 14 19 14 16 13 16 13 14 13 17 12 5 5 7 3 2 4 4 1 2 1 2 1 2 2 2 1 47 40 27 33 32 23 36 44 30 29 26 20 24 24 14 21 23 26 10 20 1 1 2 2 1 <</td><td>22 31 28 25 31 30 28 21 21 14 19 14 16 13 16 13 14 13 17 12 12 5 5 7 3 2 4 4 1 2 1 2 1 2 2 2 1 1 1 2 2 2 1<!--</td--><td>22 31 28 25 31 30 28 21 21 14 19 14 16 13 16 13 14 13 17 12 12 10 5 5 7 3 2 4 4 1 2 1 2 1 2 2 2 1 1 1 47 40 27 33 32 23 36 44 30 29 26 20 24 24 14 21 23 26 10 20 30 22 1 1 3 2 1</td><td>1 5 3 2 2 1</td></td></td<>	22 31 28 25 31 30 28 21 21 14 19 14 16 13 16 13 14 13 17 12 5 5 7 3 2 4 4 1 2 1 2 1 2 2 2 1 47 40 27 33 32 23 36 44 30 29 26 20 24 24 14 21 23 26 10 20 1 1 2 2 1 <	22 31 28 25 31 30 28 21 21 14 19 14 16 13 16 13 14 13 17 12 12 5 5 7 3 2 4 4 1 2 1 2 1 2 2 2 1 1 1 2 2 2 1 </td <td>22 31 28 25 31 30 28 21 21 14 19 14 16 13 16 13 14 13 17 12 12 10 5 5 7 3 2 4 4 1 2 1 2 1 2 2 2 1 1 1 47 40 27 33 32 23 36 44 30 29 26 20 24 24 14 21 23 26 10 20 30 22 1 1 3 2 1</td> <td>1 5 3 2 2 1</td>	22 31 28 25 31 30 28 21 21 14 19 14 16 13 16 13 14 13 17 12 12 10 5 5 7 3 2 4 4 1 2 1 2 1 2 2 2 1 1 1 47 40 27 33 32 23 36 44 30 29 26 20 24 24 14 21 23 26 10 20 30 22 1 1 3 2 1	1 5 3 2 2 1

tools	19	10	7	8	6	5	11	4	6	6	6	3	7	6	10	7	5	4	5	4	4	7	10	160	tools
other equipments,	5	2	6	2	2	6	4	5	3	3	2	1	3	2	4	3	4	2	2	4	5		2	72	other equipments, facilities
temporary buildings, establishments	20	31	22	23	20	14	20	30	25	17	15	10	14	21	19	24	20	18	12	26	16	14	16	447	temporary buildings, establishments
hazards, harmful substances	1		2			1	2	2	2		1		1	1				1				1	1	16	hazards, harmful substances
materials	48	46	39	35	27	33	32	32	29	29	16	23	19	24	26	16	15	18	20	16	17	20	18	598	materials
load	4	8	7	6	6	3	5	7	9	4	2	4	4	4	2		1	3	3	2	6	3	1	94	load
natural environment		3	3	4		1	4	3	2			6	14	3	5	7		5	3	1	1	4	2	71	natural environment
other causal agent	2		2				1	3		1		1		1	1	1							24	37	other causal agent
no causal agent	7	4	2	3	4	3	3	3	5	9	3	2	4	4	4	4	1	3	2	2	5	2	4	83	no causal agent
unclassifiable								1			1				1	1				2				6	unclassifiable
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

Causal agents (small) of fatal and non-fatal accidents in plywood 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							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																					foundation work

			 	 											-					-		
hardening machine																						hardening machine
demolition machine																						demolition machine
vehicle for high lift																						vehicle for high lift
work																						work
other construction																						other construction
machines																						machines
lathe		1																			1	lathe
drill press, milling														1				1			2	drill press, milling
machine																						machine
grinding machine,																						grinding machine,
buffing machine																						buffing machine
power press			2	1								1		1	1		1	1	1		9	power press
forging pressure			1																		1	forging pressure
hammer			•																			hammer
shearing machine																						shearing machine
other metal																						other metal
manufacturing				1		1		1			1			2				1	1		8	manufacturing
machines																						machines
centrifugal machine					1								1								2	centrifugal machine
mixer, grinder			1	1		2			1		1				1	1			1		9	mixer, grinder
roll machine (except																						roll machine (excep
printingroll		9	9	15	11	8	12	7	10	4	6	3	6	3	3	4	6	3	6	3	128	printingroll
machine)																						machine)
injection molding																						injection molding

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																						other mobile
silviculture machine																						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																						lumberyard
equipment, logging					1																1	equipment, logging
cableway																						cableway

	\square		1		<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>		<u> </u>	-									
simple skyline yarding equipment																						simple skyline yarding equipment
other powered		1									2										3	other powered crane
truck		6	1			4	3	2	1	1	3	3	1	2	1	4	2	1	4	2	41	truck
forklift		12	12	8	16	13	8	15	6	5	6	9	5	10	6	8	6	6	13	8	172	forklift
railway equipment										1											1	railway equipment
conveyor		20	18	13	17	23	16	10	15	11	13	11	6	9	13	11	1	10	10	10	237	conveyor
loader			2			1			1				1		1			1			7	loader
straddle carrier																						straddle carrier
rough terrain hauler																	1				1	rough terrain hauler
other powered conveying machines		2		2	3	3	3	2	3	2	2	1	1		2	3		2	3	2	36	other powered conveying machines
cars, bus,		1	3						2			2		1		1	1				11	cars, bus,
railway vehicle																						railway vehicle
other vehicles																						other vehicles
boiler		2			1				1					1	1						6	boiler
pressure vessel																						pressure vessel
other pressure vessels																						other pressure vessels
chemical facilities								1	1												2	chemical facilities
gas welding								1													1	gas welding

equipment																						equipment
arc welding equipment																2					2	arc welding equipment
other welding equipment																						other welding equipment
kiln, caldron			1			1											1				3	kiln, caldron
industrial dryer			1				1					2	1			1					6	industrial dryer
other kiln, caldron													1				1				2	other kiln, caldron
transmission							1														1	transmission
electric power facilities					1																1	electric power
other electrical equipment																		1		1	2	other electrical equipment
human power cranes					1		1												1		3	human power cranes
human power hauling equipment		4	1	6	6	3	1	1	1	1	2	2	1		2	1		1	1	4	38	human power hauling equipment
human power machine		1		1									1								3	human power machine
hand tool		4	4	3	3	10	6	4	2	1	1	7	2	1	1	2	2	3	1	2	59	hand tool
ladder		3	4	4	4	2	4	5	2	3	3	10	4	4	3	2	2	1	3	6	69	ladder
slinging tool		1		1		1					1						1				5	slinging tool
other tools		3	2	6		3	2	1	1	4	2		3	1	1	3	1	3	4	4	44	other tools
other equipment,																						other equipment,

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		2				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,		2			2	2		1		1	1								1		10	other hazards, harmful substances

				 		<u> </u>							<u> </u>							<u> </u>	1	<u> </u>
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,																						stone, sand,
substance																						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		1		1		1			1					1					1		6	machine/equipment
as load														1							0	as load
natural ground,															1						1	natural ground,
rock																					I	rock
standing tree									1									1			2	standing tree
water				1						13											14	water
abnormal																					,	abnormal
environment												3									3	environment
high/cold																						high/cold
temperature		1			1				4		2		1		2		1		2	1	15	temperature
environment																						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

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	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									20				J-T											013	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	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						_																		l 1	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	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
lwate	10	5	6		6		8	3	9	6	5	10	4	5	1	7	5	7	5	6	7	2	3	120	lwate

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

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)

Return to https://www.jisha.or.jp/english/statistics/2021e_industry.html

Fatal accidents in plywood in Japan in 1999-2021

plywood industry Code No.010402

Type of fatal 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				1	1			1			1	1												5	fall from height
falling to same level																									falling to same
luming to sume level																									level
crash																									crash
struck by flying or								1											1					2	struck by flying
falling object																			1						or falling object
collapse		1							1				1											3	collapse
crashed by	1				1						1										1		1	5	crashed by
saught in/hatwaan		1	6	1		1	2		1		1	1	2		1					2	1	3	1	25	caught
caught in/between						'									I					٥		3		23	in/between
cut																									cut

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

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)
machine	1		3	1	1	1	2	1	1		1		2							3		1	1	19	machine
crane, conveying machine		1	4								2	1			2				1		2	2	1	16	crane, conveying machine
other equipment																									other equipment
temporary buildings, establishments				1	1							1													temporary buildings, establishments
substance, material						1		1																2	substance, material
load		1							1				1											3	load
environment		1						1				2	13		3									20	environment
others															1									1	others
total	1	3	7	2	2	2	2	3	2		3	4	16		6				1	3	2	3	2	64	total

Causal agents (middle) of fatal accidents in plywood 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)
edusur (M) ugents		2000	2001	2002	2003	2001	2003	2000	2007	2000	2005	2010	2011	2012	2013	2011	2013	2010	2017	2010	2017	2020	2021	l 1	agents

engine																					engine
power transmission mechanism																					power transmission mechanism
woodworking machine	1		3		1	1	1		1	1		2				2			1	14	woodworking machine
construction machine																					construction machine
metal manufacturing machine																					metal manufacturing machine
general machine				1			1	1								1		1		5	general machine
mobile silviculture machine																					mobile silviculture machine
crane			1														1			2	crane
conveying machine		1	3							2	1		1		1		1	2	1	13	conveying machine
vehicle													1							1	vehicle
pressure vessel																					pressure vessel
chemical facilities																					chemical facilities
welding equipment																					welding equipment

	<u> </u>		<u> </u>					1	<u> </u>		<u> </u>			لــــــا		 		<u> </u>			<u> </u>		_
kiln, caldron																							kiln, caldron
electric equipment																							electric equipment
human power machine,																							human power
tools																							machine, tools
tools																							tools
other equipments,																							other
facilities																							equipments,
		<u> </u>		<u> </u>	_	<u> </u>	<u> </u>	<u> </u>				<u> </u>											facilities
temporary buildings,																							temporary
establishments			1	1							1											3	buildings,
																							establishments
hazards, harmful																							hazards,
substances					1																	1	harmful
																							substances
materials							1															1	materials
load	1							1				1										3	load
												12										20	natural
natural environment											2	13		3								20	environment
44																							other causal
other causal agent																							agent
no causal agent														1								1	no causal
no causal agent														I								 	agent
unclassifiable																							unclassifiable
	1	-	-	====	╡┾━━			-	1	-	-				=	 					-		-

total	1	3	I /	2	2	2	2	3	2		3	4	16		6				1	3	2	3	2	64	total	
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Causal agents (small) of fatal accidents in plywood 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																									engine
power transmission																									power transmission
mechanism																									mechanism
circular sawing					1						1													2	circular sawing
machine					<u> </u>																				machine
band sawing																									band sawing
machine																									machine
wood planer																									wood planer
machine																									machine
hollow chisel																									hollow chisel
mortiser, wood																									mortiser, wood
borer																									borer
chamfering																									chamfering
machine, router,									1															1	machine, router,
woodworking																									woodworking
milling machine																									milling machine
chain saw																									chain saw
other woodworking	_					1	_						2										_	11	other woodworking
machines	1		3				I						2							2			ı	11	machines

leveling,												leveling,
transporting or												transporting or
loading machine												loading machine
excavating machine												excavating machine
foundation work												foundation work
machine												machine
hardening machine												hardening machine
demolition machine												demolition machine
vehicle for high lift												vehicle for high lift
work												work
other construction												other construction
machines												machines
lathe												lathe
drill press, milling												drill press, milling
machine												machine
grinding machine,												grinding machine,
buffing machine												buffing machine
power press												power press
forging pressure												forging pressure
hammer												hammer
shearing machine												shearing machine
other metal												other metal
manufacturing												manufacturing
machines												machines

centrifugal machine															centrifugal machine
mixer, grinder															mixer, grinder
roll machine (except printingroll machine)		1												1	roll machine (except printingroll machine)
injection molding machine															injection molding machine
food manufacturing machine															food manufacturing machine
printing machine															printing machine
industrial robot															industrial robot
other general power machines				1	1						1		1	4	other general power machines
felling machine															felling machine
mobile logging															mobile logging machine
skyline yarding machine															skyline yarding machine
other mobile silviculture machine															other mobile silviculture machine
crane												1		1	crane
mobile crane															mobile crane
derrick crane															derrick crane
elevator, lift															elevator, lift
															(

cargo lifting																cargo lifting
appliance																appliance
gondola																gondola
lumberyard																lumberyard
equipment, logging																equipment, logging
cableway																cableway
simple skyline																simple skyline
yarding equipment																yarding equipment
other powered		1													1	other powered
crane																crane
truck		1				1									2	truck
forklift						1								1	2	forklift
railway equipment																railway equipment
conveyor	1	2					1						1		5	conveyor
loader																loader
straddle carrier																straddle carrier
rough terrain hauler																rough terrain hauler
other powered																other powered
conveying machines									1						4	conveying machines
cars, bus,															1	cars, bus,
motorcycle									I						1	motorcycle
railway vehicle																railway vehicle
other vehicles																other vehicles
boiler																boiler

		 	 	 =	 ==	 							
pressure vessel													pressure vessel
other pressure													other pressure
vessels													vessels
chemical facilities													chemical facilities
gas welding													gas welding
equipment													equipment
arc welding													arc welding
equipment													equipment
other welding													other welding
equipment													equipment
kiln, caldron													kiln, caldron
industrial dryer													industrial dryer
other kiln, caldron													other kiln, caldron
transmission													transmission
electric power													electric power
facilities													facilities
other electrical													other electrical
equipment													equipment
human power													human power
cranes													cranes
human power													human power
hauling equipment													hauling equipment
human power													human power
machine													machine

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

·	 	 	 	 		 			 	 	 	 	 		
inflammable gas															inflammable gas
harmful substance															harmful substance
radiation															radiation
other hazards,			1											1	other hazards,
harmful substances			I												harmful substances
metal material															metal material
lumber, bamboo				1										1	lumber, bamboo
stone, sand,															stone, sand,
substance															substance
other materials															other materials
load	1				1			1						3	load
machine/equipment															machine/equipment
as load															as load
natural ground,															natural ground,
rock															rock
standing tree															standing tree
water	1							13						14	water
abnormal									2						abnormal
environment									3					3	environment
high/cold															high/cold
temperature				1			2							3	temperature
environment															environment
other environments															other environments
other causal agent															other causal agent

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		1	1												1					2	300 workers or
more															1					5	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	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							1															1		2	Hokkaido
Aomori																									Aomori
lwate			1								1		1									1		4	lwate
Miyagi			1		1								12											14	Miyagi
Akita			2					1	1						1					1				6	Akita
Yamagata											1													1	Yamagata
Fukushima																									Fukushim
Ibaraki																									Ibaraki
Tochigi																									Tochigi
Gunma												1												1	Gunma
Saitama				1					1															2	Saitama
Chiba																									Chiba
Tokyo						1																		1	Tokyo
Kanagawa																									Kanagawa
Niigata																									Niigata
Toyama																									Toyama
Ishikawa																									Ishikawa
Fukui																									Fukui
Yamanashi																							1	1	Yamanash
Nagano																									Nagano
Gifu															3				1					4	Gifu

Shizuoka		1		1																2	Shizuoka
Aichi								1			1						1			3	Aichi
Mie																					Mie
Shiga																	1			1	Shiga
Kyoto																					Kyoto
Osaka		1										1						1		3	Osaka
Hyogo										1										1	Hyogo
Nara			1		1			1												3	Nara
Wakayama																					Wakayama
Tottori			1								1									2	Tottori
Shimane	1	1									1	1				1				5	Shimane
Okayama																1				1	Okayama
Hiroshima																					Hiroshima
Yamaguchi																					Yamaguchi
Tokushima			1																	1	Tokushima
Kagawa												1								1	Kagawa
Ehime													1							1	Ehime
Kochi																					Kochi
Fukuoka						1														1	Fukuoka
Saga																			1	1	Saga
Nagasaki																					Nagasaki
Kumamoto							1						1							2	Kumamoto
Oita																					Oita

Miyazaki																					Miyazaki
Kagoshima																					Kagoshima
Okinawa																					Okinawa
total	1	3	7	2	2	2	2	3	2	3	4	16	6		1	3	2	3	2	64	total

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

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