Fatal and non-fatal accidents in plywood in Japan in 1999-2022

plywood industry Code No.010402

Type of accidents in plywood 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	23	26	20	15	15	10	16	18	21	15	22	9	5	17	17	16	15	10	14	16	10	18	20	13	381
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	25	421
crash	13	7	10	9	7	11	6	12	11	7	5	4	4	6	10	5	3	3	6	5	7	10	4	7	172
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	3	342
collapse	13	7	7	5	7	6	8	8	8	9	7	5	3	2	3	3	4	1	2	1	3	2	2	1	117
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	6	235
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	43	1,765
cut	55	48	43	49	41	43	34	36	40	27	25	21	30	24	37	18	23	28	25	30	28	18	18	14	755
injury to the sole of the foot	1				1		2	1													1				6
drown		1											12												13
contact to high/low-	3	5	4	4	2		4	3	3	3	4	6	1	3	4	3	1	5	4	2		3	1	3	71

temperature																									
contact to harmful substance						1	1	1	1		1		1	1	3			1				1	1		13
electric shock	2			2				1				1						1			1				8
explosion	2	1				4			1										1						9
burst						1																			1
fire																									
traffic accident (public road)		1	2		4	3								1	2		2		1				1	13	30
traffic accident (others)																									
reaction to motion/improper motion	16	19	8	12	12	12	9	8	17	17	4	6	9	9	15	12	9	7	9	13	10	10	13	14	270
others	1		1	2				2		1			1		1	1		1				1	25		37
unclassifiable								2			1					1								1	5
total	312	305	268	253	232	230	231	242	236	192	150	149	167	174	180	147	135	163	140	149	148	137	168	143	4,651

Causal agents (large) of fatal and non-fatal accidents in plywood 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	151	136	121	135	124	115	114	100	93	82	66	66	78	79	70	64	63	82	58	75	68	53	60	49	2,102

crane, conveying machine	39	53	46	34	36	37	25	40	48	31	31	28	21	26	27	14	24	23	29	13	21	30	23	31	730
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	15	419
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	23	470
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	16	630
load	4	8	7	6	6	3	5	7	9	4	2	4	4	4	2		1	3	3	2	6	3	1	2	96
environment		3	3	4		1	4	3	2			6	14	3	5	7		5	3	1	1	4	2	1	72
others	9	4	4	3	4	3	4	7	5	10	4	3	4	5	6	6	1	3	2	4	5	2	28	6	132
total	312	305	268	253	232	230	231	242	236	192	150	149	167	174	180	147	135	163	140	149	148	137	168	143	4,651

Causal agents (middle) of fatal and non-fatal accidents in plywood in 1999-2022

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine											2														2
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	4	107
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	32	1,493

construction machine	1					1							1										1		4
metal manufacturing machine	3		1	5	3	2	2		1		1			1	1		4	1		1	3	2		1	32
general machine	32	22	31	28	25	31	30	28	21	21	14	19	14	16	13	16	13	14	13	17	12	12	10	12	464
mobile silviculture machine																									
crane	3	5	5	7		3	2	4	4	1	2		1	2	1		2		2	2	1		1		48
conveying machine	36	47	40	27	33	32	23	36	44	30	29	26	20	24	24	14	21	23	26	10	20	30	22	18	655
vehicle		1	1		3	2						2			2		1		1	1				13	27
pressure vessel	1	1	2			2		1				1					1	1							10
chemical facilities											1	1													2
welding equipment											1								2						3
kiln, caldron	2	1		1	2	1			1	1					2	2			1	2				3	19
electric equipment		1		1		1		1		1											1		1		7
human power machine, tools	13	9	9	1	5	8	10	10	13	8	5	3	2	3	9	4	1	3	3	2	4	3	6	2	136
tools	19	10	7	8	6	5	11	4	6	6	6	3	7	6	10	7	5	4	5	4	4	7	10	9	169
other equipments,																									

facilities	5	2	6	2	2	6	4	5	3	3	2	1	3	2	4	3	4	2	2	4	5		2	1	73
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	23	470
hazards, harmful substances	1		2			1	2	2	2		1		1	1				1				1	1	1	17
materials	48	46	39	35	27	33	32	32	29	29	16	23	19	24	26	16	15	18	20	16	17	20	18	15	613
load	4	8	7	6	6	3	5	7	9	4	2	4	4	4	2		1	3	3	2	6	3	1	2	96
natural environment		3	3	4		1	4	3	2			6	14	3	5	7		5	3	1	1	4	2	1	72
other causal agent	2		2				1	3		1		1		1	1	1							24	2	39
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	3	86
unclassifiable								1			1				1	1				2				1	7
total	312	305	268	253	232	230	231	242	236	192	150	149	167	174	180	147	135	163	140	149	148	137	168	143	4,651

Causal agents (small) of fatal and non-fatal accidents in plywood 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											2														2
power transmission mechanism			5		4		7	8	4	2	4	6	3	5	6	2	5	6	3	1	3	2	6	4	86

circular sawing machine			23		27		15	18	20	16	12	13	21	17	21	10	16	17	12	13	17	10	13	9	320
band sawing machine			3				1	1	1	4	2	1	1	3	1			1			1			1	21
wood planer machine			4		5		6	8	4	4	3	3	6	3	2	3	3	3	1	5	6		6	3	78
hollow chisel mortiser, wood borer			4		1		2				1		1		2	1				2			1		15
chamfering machine, router, woodworking milling machine			4		5		4	3	4	1	1			2	1	4	1	2	2	2	1	2			39
chain saw								1	1									1				1			4
other woodworking machines			46		54		47	33	37	34	26	24	31	32	23	28	21	37	27	34	25	24	23	19	625
leveling, transporting or loading machine																									
excavating machine													1										1		2
foundation work machine																									
hardening machine																									

demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe			1																						1
drill press, milling machine																	1				1			1	3
grinding machine, buffing machine																									
power press					2		1								1		1	1		1	1	1			9
forging pressure hammer					1																				1
shearing machine																									
other metal manufacturing machines							1		1		1			1			2				1	1			8
centrifugal machine								1								1									2
mixer, grinder					1		1		2			1		1				1	1			1		1	10
roll machine (except printingroll machine)			9		9		15	11	8	12	7	10	4	6	3	6	3	3	4	6	3	6	3	3	131

injection molding machine																				1					1
food manufacturing machine			1																						1
printing machine			1		2		1								1	1								1	7
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	7	199
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane			2				1	1	4								1		1	2	1				13
mobile crane										1									1						2
derrick crane																									
elevator, lift			2				1	2			2		1		1		1						1		11
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway								1																	1
simple skyline yarding equipment																									
other powered crane			1											2											3
truck			6		1				4	3	2	1	1	3	3	1	2	1	4	2	1	4	2	2	43
forklift			12		12		8	16	13	8	15	6	5	6	9	5	10	6	8	6	6	13	8	8	180
railway equipment													1												1
conveyor			20		18		13	17	23	16	10	15	11	13	11	6	9	13	11	1	10	10	10	8	245
loader					2				1			1				1		1			1				7
straddle carrier																									
rough terrain hauler																				1					1
other powered conveying machines			2				2	3	3	3	2	3	2	2	1	1		2	3		2	3	2		36
cars, bus, motorcycle			1		3							2			2		1		1	1				13	24
railway vehicle																									
other vehicles																									
boiler			2					1				1					1	1							6

pressure vessel																									
other pressure vessels																									
chemical facilities											1	1													2
gas welding equipment											1														1
arc welding equipment																			2						2
other welding equipment																									
kiln, caldron					1				1											1				2	5
industrial dryer					1					1					2	1			1					1	7
other kiln, caldron																1				1					2
transmission										1															1
electric power facilities								1																	1
other electrical equipment																					1		1		2
human power cranes								1		1												1		1	4
human power hauling equipment			4		1		6	6	3	1	1	1	1	2	2	1		2	1		1	1	4	1	39

human power machine			1				1									1									3
hand tool			4		4		3	3	10	6	4	2	1	1	7	2	1	1	2	2	3	1	2		59
ladder			3		4		4	4	2	4	5	2	3	3	10	4	4	3	2	2	1	3	6	4	73
slinging tool			1				1		1					1						1				1	6
other tools			3		2		6		3	2	1	1	4	2		3	1	1	3	1	3	4	4	4	48
other equipment, facilities			6		2		4	5	3	3	2	1	3	2	4	3	4	2	2	4	5		2	1	58
scaffolding					2				1						1		1			2	2				9
timbering									1																1
stairs, landing stage			3		3		3	2		2	2	1	2	1	3	2	1	4		2	1	2	7	2	43
opening					2			1	1	1			1								1		1	2	10
roof, beam, haze, crossbeam, principal rafter							2	1						3	1				1		2				10
working platform, boot board			3		7			7	6	1	5	5	3	5	3	5	4	3	2	3	3	3	1	3	72
passage			10		2		13	10	10	8	7	3	6	8	5	10	12	9	5	17	5	8	4	12	164
building, establishment			5		2		2	6	5	2		1	1	2	2	4	2	1	2	2	1		1	3	44
other temporary buildings,			1		2			3	1	3	1		1	2	4	3		1	2		1	1	2	1	29

establishments																									
explosive substance																									
inflammable substance							1																	1	2
inflammable gas																									
harmful substance							1											1					1		3
radiation																									
other hazards, harmful substances			2					2	2		1		1	1								1			10
metal material			4		3		5	4	2	4	1	3	1	2	1	3	2		1	1		1	1	1	40
lumber, bamboo			34		24		27	27	27	25	13	20	18	21	24	12	11	16	17	15	17	17	17	12	394
stone, sand, substance																								1	1
other materials			1					1			2			1	1	1	2	2	2			2		1	16
load			6		6		4	7	8	4	2	3	4	4	2			3	3	2	6	2	1	2	69
machine/equipment as load			1				1		1			1					1					1			6
natural ground, rock																		1							1
standing tree												1									1				2
water							1						13												14
abnormal																									

environment															3										3
high/cold temperature environment			1					1				4		2		1		2		1		2	1		15
other environments			2				3	2	2			1	1	1	2	6		2	3			2	1	1	29
other causal agent			2				1	3		1		1		1	1	1							24	2	37
no causal agent			2		4		3	3	5	9	3	2	4	4	4	4	1	3	2	2	5	2	4	3	69
unclassifiable								1			1				1	1				2				1	7
total	312	305	268	253	232	230	231	242	236	192	150	149	167	174	180	147	135	163	140	149	148	137	168	143	4,651

Workers age of fatal and non-fatal accidents in plywood 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	11	12	6	7	9	4	10	6	4	6	6	3	1	6	4	4	7	1	8	2		2	1	4	124
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	26	869
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	23	892
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	33	916
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	34	1,214
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	23	636
total	312	305	268	253	232	230	231	242	236	192	150	149	167	174	180	147	135	163	140	149	148	137	168	143	4,651

Workers' number of workplace of fatal and non-fatal accidents in plywood 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	50	47	57	53	40	36	44	50	30	40	23	17	23	27	24	22	14	16	18	13	17	11	12	14	698
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	37	1,195
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	30	773
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	23	720
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	35	1,149
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	4	116
total	312	305	268	253	232	230	231	242	236	192	150	149	167	174	180	147	135	163	140	149	148	137	168	143	4,651

Month of fatal and non-fatal accidents in plywood 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	27	29	32	23	14	23	14	17	13	14	18	10	17	20	15	7	15	9	11	12	13	11	33	13	410
February	31	22	22	14	23	11	27	19	25	16	11	7	19	15	17	14	10	13	7	11	9	16	12	9	380
March	29	32	27	20	28	23	17	22	18	17	15	12	25	18	16	13	11	15	12	9	9	12	18	9	427
April	36	23	27	17	19	10	22	17	20	12	14	5	10	9	19	10	9	16	11	14	17	14	10	13	374
May	26	17	13	17	18	16	15	19	27	24	8	15	6	4	11	10	11	10	10	9	16	12	10	6	330
June	26	31	14	16	16	25	17	21	27	13	15	12	17	14	12	14	11	14	12	8	15	9	9	6	374

July	37	30	18	20	22	20	22	29	23	21	13	14	10	10	17	14	13	12	17	13	12	14	14	14	429
August	24	30	22	18	21	25	24	19	11	12	8	14	22	26	16	11	12	16	12	10	6	7	10	10	386
September	15	17	19	28	16	10	15	19	15	12	12	17	13	11	12	10	9	16	12	9	9	11	15	14	336
October	19	23	25	29	19	24	18	19	21	21	9	10	11	23	7	15	10	15	10	19	20	13	12	25	417
November	22	25	28	25	16	21	17	21	20	16	16	15	10	12	15	17	9	5	13	18	9	12	12	7	381
December	20	26	21	26	20	22	23	20	16	14	11	18	7	12	23	12	15	22	13	17	13	6	13	17	407
total	312	305	268	253	232	230	231	242	236	192	150	149	167	174	180	147	135	163	140	149	148	137	168	143	4,651

Prefecture of fatal and non-fatal accidents in plywood 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	30	20	21		17		19	16	21	21	10	12	16	23	10	19	5	12	16	13	8	12	9	10	340
Aomori		1	1					1										3	3	5	4	4	4	8	34
Iwate	10	5	6		6		8	3	9	6	5	10	4	5	1	7	5	7	5	6	7	2	3	6	126
Miyagi	8	5	3		4		7	18	18	8	6	4	18	4	4	2	1	1	5	5	5	3		7	136
Akita	18	15	9		6		7	20	11	12	8	12	13	14	10	7	9	14	8	13	10	7	11	2	236
Yamagata	1	2	3		2		1	1	3		1	1		2	3	1	2	1	3	2	1	1		3	34
Fukushima	6	10	1		2		7	8	5	3	3	2	1	3	2	3	4	4	1	3	3	1	1		73
Ibaraki	3	3	3		2		5	5	5	5	6	7	6	5	8	4	4	6	2	4	5	2	5	3	98
Tochigi	5	2	4		5		3	4	3	3	1	2	4	4	6	2	4	5	1	3	1	1	1	2	66
Gunma	3	2	5		2		7	2	5	3	2	3	2	1	1	1	1			2	1		4	1	48

Saitama	5	8	6		5		5	9	3	2	4		2	3	3	5	1	3		4	2	3	1		74
Chiba	3	6	5		4		1	7	7	9	7					3	3	4	6	2	1	3	2	2	75
Tokyo	5	6	4		7		4	6	5	7	2	1	2	3			2	2			2				58
Kanagawa	1						2	1	1					2				2	2		2				13
Niigata	1	3	6		5		7	7	7	6	6	3	2	2	4	6	4	3	5	2	1	3	2	1	86
Toyama	4	5	3		1		3	2	3			1			1		1					1	1	1	27
Ishikawa	9	6	7		3		2	2	3	2	4		2	3	4	4	3	3	2	5	1		3	4	72
Fukui	5	3	3		1			1	1	1			2	3		1	3	1	2	4	2	2		3	38
Yamanashi		2	4		1				1		1												2		11
Nagano	1	2	1		1		1	2	2	1	2	2	2	1	2	2	2	1	1			3	1		30
Gifu	19	20	15		9		5	12	5	1	7	4	6	7	7	5	5	10	6		4	5	27	7	186
Shizuoka	16	18	15		18		15	8	8	14	5	3	3	5	3	12	4	5	3	8	4	3	2	6	178
Aichi	30	33	24		24		16	21	16	11	20	17	18	17	7	4	6	13	9	9	11	10	5	22	343
Mie	5	2	2		3		5	2	3	1	3	4	1	7			2	1	2	2	1	2	1	2	51
Shiga	7	1	1		2		4	1	5				1		1			1			1	1	1	1	28
Kyoto	4		3		3		5	4	5	5	1	3	2	2	7	2	1	1			1	2	6	1	58
Osaka	10	10	9		12		11	10	11	15	8	9	9	8	14	7	9	9	13	10	5	9	10	6	214
Hyogo	2	3	3		2		2	2			4		9	2	4	6	1	3		1	1	1	1	1	48
Nara	15	12	9		8		18	21	21	17	6	18	7	15	29	22	15	16	9	18	18	14	19	9	336
Wakayama	2	3	5		3		3	3	4		1		2	4	3	1		2	1	1	3	2	3	2	48
Tottori	1	12	3		2		1	2	3	2	6	5	6	4	2	1	6	2	2	1	5	10	6	2	84

Shimane	19	12	12		9		8	5	9	3	4	5	5	7	6	2	9	10	11	8	7	5	8	8	172
Okayama	8	2	1		6		2	6	4			2	5	3	4	1		1	2	1	3	7	1	3	62
Hiroshima	17	9	7		9		14	7	5	7	3	6	5	2	5	4	6	5	3	1	4	5	8	1	133
Yamaguchi	2	2	3		2				4	2	1	2	1	2	2								1		24
Tokushima	12	15	23		11		5	4	10	2	3	4	3	1	6	1	1	2		2	8	3	4	3	123
Kagawa	6	9	13		20		9	5	2	5	3	1	3	1	6	5	5	1	3	5	4	1	1	4	112
Ehime		2			1		3	2		2		1		2	4	1	3	3	2		4	5	2	4	41
Kochi	1	3	5		1						1						1				1				13
Fukuoka	5	13	8		7		4	6	2	7	1	2	1	3	2	4	1	3	3	5	2	1	1	1	82
Saga		3	4				3			1			2	1	1		1		4		2	1	3		26
Nagasaki		2	1							1	1								1	1					7
Kumamoto	4	3	4		3		3	1	3	2		1	1	1	1	1	1	1			1		4	2	37
Oita							1	1		1					1		3		1	1					9
Miyazaki	4	3	1		2		3	1	2	3	3		1	2	5		1	2	1	1	1	1	3	4	44
Kagoshima	5	6	2		1		1	1	1	1		2			1	1			1	1	1	1	1	1	28
Okinawa		1					1	2			1								1						6
total	312	305	268	253	232	230	231	242	236	192	150	149	167	174	180	147	135	163	140	149	148	137	168	143	4,651

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)

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Fatal accidents in plywood in Japan in 1999-2022

plywood industry Code No.010402

Type of fatal accidents in plywood 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				1	1			1			1	1													5
falling to same level																									
crash																									
struck by flying or falling object								1											1						2
collapse		1							1				1												3
crashed by	1				1						1										1		1		5
caught in/between		1	6	1		1	2		1		1	1	2		1					3	1	3	1	1	26
cut																									
injury to the sole of the foot																									

drown		1											12												13
contact to high/low-temperature												2													2
contact to harmful substance															3										3
electric shock																									
explosion						1																			1
burst																									
fire																									
traffic accident (public road)			1												1									1	3
traffic accident (others)																									
reaction to motion/improper motion																									
others								1					1		1										3
unclassifiable																									
total	1	3	7	2	2	2	2	3	2		3	4	16		6				1	3	2	3	2	2	66

Causal agents (large) of fatal accidents in plywood 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		3	1	1	1	2	1	1		1		2							3		1	1		19
crane, conveying machine		1	4								2	1			2				1		2	2	1	2	18
other equipment																									
temporary buildings, establishments				1	1							1													3
substance, material						1		1																	2
load		1							1				1												3
environment		1						1				2	13		3										20
others															1										1
total	1	3	7	2	2	2	2	3	2		3	4	16		6				1	3	2	3	2	2	66

Causal agents (middle) of fatal accidents in plywood in 1999-2022

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism																									

woodworking machine	1		3		1	1	1		1		1		2							2			1		14
construction machine																									
metal manufacturing machine																									
general machine				1			1	1												1		1			5
mobile silviculture machine																									
crane			1																		1				2
conveying machine		1	3								2	1			1				1		1	2	1	1	14
vehicle															1									1	2
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools																									
other equipments,																									

facilities																									
temporary buildings, establishments				1	1							1													3
hazards, harmful substances						1																			1
materials								1																	1
load		1							1				1												3
natural environment		1						1				2	13		3										20
other causal agent																									
no causal agent															1										1
unclassifiable																									
total	1	3	7	2	2	2	2	3	2		3	4	16		6				1	3	2	3	2	2	66

Causal agents (small) of fatal accidents in plywood 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																									

circular sawing machine					1						1														2
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine									1																1
chain saw																									
other woodworking machines	1		3			1	1						2							2			1		11
leveling, transporting or loading machine																									
excavating machine																									
foundation work machine																									
hardening machine																									

demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe																									
drill press, milling machine																									
grinding machine, buffing machine																									
power press																									
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines																									
centrifugal machine																									
mixer, grinder																									
roll machine (except printingroll machine)				1																					1

injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines							1	1												1		1			4
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																					1				1
mobile crane																									
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane			1																						1
truck			1								1														2
forklift											1												1		2
railway equipment																									
conveyor		1	2									1										1		1	6
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines															1				1		1	1			4
cars, bus, motorcycle															1									1	2
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																									

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

establishments																									
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance																									
radiation																									
other hazards, harmful substances						1																			1
metal material																									
lumber, bamboo								1																	1
stone, sand, substance																									
other materials																									
load		1							1				1												3
machine/equipment as load																									
natural ground, rock																									
standing tree																									
water		1											13												14
abnormal																									

environment															3										3
high/cold temperature environment								1				2													3
other environments																									
other causal agent																									
no causal agent															1										1
unclassifiable																									
total	1	3	7	2	2	2	2	3	2		3	4	16		6				1	3	2	3	2	2	66

Workers age of fatal accidents in plywood 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				1						1												3
20-29			1				1	1				1	2		1									1	8
30-39			1			1			1				5		1				1						10
40-49		3	2	1							1	1	1		1					2		2		1	15
50-59	1		2	1	1	1		1			1	2	5		2					1		1			19
60 years old or more					1			1	1		1		2		1						2		2		11
total	1	3	7	2	2	2	2	3	2		3	4	16		6				1	3	2	3	2	2	66

Workers' number of workplace of fatal accidents in plywood 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	1						1	1			1						1				6
10-29		1						1	2				2								1			1	8
30-49			2		1							1	8		5								1		18
50-99		1	1	1		1						1	3							1					9
100-299	1		3			1	2	2			2	1	3							2		3	1	1	22
300 workers or more		1	1																1						3
total	1	3	7	2	2	2	2	3	2		3	4	16		6				1	3	2	3	2	2	66

Month of fatal accidents in plywood 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			1			1		2		1								1				8
February		1		1				1	1																4
March		1	1										13		4								1		20
April																					1	1			2
May			2	1																1					4
June												1	1												2

July							1				1								1	1			1		5
August			1					1				2	1												5
September					1		1																		2
October					1															1				2	4
November	1	1	1			1		1							1							1			7
December												1			1							1			3
total	1	3	7	2	2	2	2	3	2		3	4	16		6				1	3	2	3	2	2	66

Prefecture of fatal accidents in plywood in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido							1															1			2
Aomori																									
Iwate			1								1		1									1			4
Miyagi			1		1								12											1	15
Akita			2					1	1						1					1					6
Yamagata											1														1
Fukushima																									
Ibaraki																									
Tochigi																									
Gunma												1													1

Saitama				1					1																2
Chiba																									
Tokyo						1																			1
Kanagawa																									
Niigata																									
Toyama																									
Ishikawa																									
Fukui																									
Yamanashi																							1		1
Nagano																									
Gifu															3				1						4
Shizuoka		1		1																					2
Aichi								1				1									1			1	4
Mie																									
Shiga																					1				1
Kyoto																									
Osaka		1											1									1			3
Hyogo											1														1
Nara			1		1			1																	3
Wakayama																									
Tottori			1									1													2

Shimane	1	1										1	1							1					5
Okayama																				1					1
Hiroshima																									
Yamaguchi																									
Tokushima			1																						1
Kagawa													1												1
Ehime															1										1
Kochi																									
Fukuoka						1																			1
Saga																							1		1
Nagasaki																									
Kumamoto							1								1										2
Oita																									
Miyazaki																									
Kagoshima																									
Okinawa																									
total	1	3	7	2	2	2	2	3	2		3	4	16		6				1	3	2	3	2	2	66

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

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