

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

lumbering industry Code No.010401

Type of accidents in lumbering in 1999-2021

[illegible]

contact to harmful substance	2	2				1	1							1							1			8	contact to harmful substance
electric shock	1				1										1		1	2						6	electric shock
explosion			2	2							1				1									6	explosion
burst				2	1	1								1										5	burst
fire	1																			1				2	fire
traffic accident (public road)	7	4	8	10	7	3	4	7	4	3	1	6	4	3	8	4	7	3	1	2	3	1	3	103	traffic accident (public road)
traffic accident (others)							1	3							1					1				6	traffic accident (others)
reaction to motion/improper motion	93	90	61	54	68	57	50	46	36	41	35	36	30	20	31	30	31	25	27	32	24	37	23	977	reaction to motion/improper motion
others	1	3	6	7	4	3	3	3	3	1	2	2	2		3	3	3	1	1	2	4		13	70	others
unclassifiable	2	1	2	2	1	1	2	2	1		2		2		1				1		1			21	unclassifiable
total	1,941	1,775	1,561	1,284	1,266	1,212	1,136	960	951	820	693	686	680	654	593	615	542	487	528	510	506	455	496	20,351	total

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

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (L) agents
machine	854	782	657	524	549	492	489	404	402	357	308	300	305	303	276	265	239	205	220	202	212	202	196	8,743	machine
crane, conveying	256	239	221	212	194	208	179	154	164	135	101	139	121	116	97	99	93	79	107	80	100	84	94	3,272	crane, conveying

machine																									machine
other equipment	110	86	93	79	77	86	87	53	52	53	48	39	36	35	37	38	30	25	36	38	27	24	34	1,223	other equipment
temporary buildings, establishments	181	148	145	103	107	108	97	97	105	90	81	55	72	60	51	68	57	65	50	77	63	38	61	1,979	temporary buildings, establishments
substance, material	463	445	388	311	270	259	238	206	188	153	121	113	113	115	101	114	95	90	80	82	75	82	78	4,180	substance, material
load	18	23	18	19	15	11	12	13	12	12	8	8	7	9	8	5	8	7	6	9	8	4	6	246	load
environment	21	16	21	15	23	19	10	18	12	9	13	12	13	10	10	14	6	7	15	10	10	8	6	298	environment
others	38	36	18	21	31	29	24	15	16	11	13	20	13	6	13	12	14	9	14	12	11	13	21	410	others
total	1,941	1,775	1,561	1,284	1,266	1,212	1,136	960	951	820	693	686	680	654	593	615	542	487	528	510	506	455	496	20,351	total

Causal agents (middle) of fatal and non-fatal accidents in lumbering in 1999-2021

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (M) agents
engine	1		1		1					1														4	engine
power transmission mechanism	33	43	25	23	15	15	22	20	18	14	8	10	17	9	13	14	14	11	7	16	18	13	6	384	power transmission mechanism
woodworking machine	772	692	590	463	505	442	431	355	365	315	277	273	258	268	244	234	202	172	194	169	171	176	175	7,743	woodworking machine
construction machine	2	6	1	5	3	4	1	2	5	2		3	2	4	4	1	1	1		1	2	3	3	56	construction machine

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other equipments, facilities	15	11	18	7	12	9	14	6	8	8	9	4	5	4	4	6	3	3	5	6	2	2	5	166	equipments, facilities
temporary buildings, establishments	181	148	145	103	107	108	97	97	105	90	81	55	72	60	51	68	57	65	50	77	63	38	61	1,979	temporary buildings, establishments
hazards, harmful substances	3	3		2	1	1		2		1	1					1			1	1	1			18	hazards, harmful substances
materials	460	442	388	309	269	258	238	204	188	152	120	113	113	115	101	113	95	90	79	81	74	82	78	4,162	materials
load	18	23	18	19	15	11	12	13	12	12	8	8	7	9	8	5	8	7	6	9	8	4	6	246	load
natural environment	21	16	21	15	23	19	10	18	12	9	13	12	13	10	10	14	6	7	15	10	10	8	6	298	natural environment
other causal agent	6	9	2	2	10	3	7	1	4	3	2	1	3		4	2	1	2	1		2	1	13	79	other causal agent
no causal agent	30	25	14	18	19	24	13	12	12	7	9	19	9	5	7	10	13	7	12	11	8	11	8	303	no causal agent
unclassifiable	2	2	2	1	2	2	4	2		1	2		1	1	2				1	1	1	1		28	unclassifiable
total	1,941	1,775	1,561	1,284	1,266	1,212	1,136	960	951	820	693	686	680	654	593	615	542	487	528	510	506	455	496	20,351	total

Causal agents (small) of fatal and non-fatal accidents in lumbering in 1999-2021

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (S) agents
engine			1		1					1														3	engine
power transmission			25		15		22	20	18	14	8	10	17	9	13	14	14	11	7	16	18	13	6	270	power transmission

mechanism																									mechanism
circular sawing machine			199		166		158	130	116	101	102	91	80	90	86	70	66	59	71	68	58	70	58	1,839	circular sawing machine
band sawing machine			136		114		88	68	75	51	44	40	56	36	30	42	33	33	33	29	21	30	20	979	band sawing machine
wood planer machine			49		31		38	18	24	30	29	32	38	22	22	28	18	14	15	16	19	18	18	479	wood planer machine
hollow chisel mortiser, wood borer			8		6		7	3	7	7	4	2	2	4	4	2	4	5	3		2		1	71	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine			9		12		4	6	5	3	4	4	3	1	6	3	3	4	5	5	2	3	2	84	chamfering machine, router, woodworking milling machine
chain saw			17		24		12	18	8	15	13	15	6	15	6	10	7	2	5	3	3	6	6	191	chain saw
other woodworking machines			172		152		124	112	130	108	81	89	73	100	90	79	71	55	62	48	66	49	70	1,731	other woodworking machines
leveling, transporting or loading machine			1				1	1	2	2		2		1	2	1	1	1			1	1	2	19	leveling, transporting or loading machine
excavating machine					1				2			1		2	2					1	1	1	1	12	excavating machine
foundation work machine																									foundation work machine
hardening machine																									hardening machine
demolition machine								1	1													1		3	demolition machine

vehicle for high lift work													1											1	vehicle for high lift work
other construction machines					2								1	1										4	other construction machines
lathe			1																					1	lathe
drill press, milling machine			1				1								1			1		1				5	drill press, milling machine
grinding machine, buffing machine			2		1		1	1		1	1		4	1	1		1	1	1	1	2	1		20	grinding machine, buffing machine
power press																									power press
forging pressure hammer																									forging pressure hammer
shearing machine			1																					1	shearing machine
other metal manufacturing machines								1	4	2	1		1	2	1		1				2			15	other metal manufacturing machines
centrifugal machine																		1						1	centrifugal machine
mixer, grinder					3		2	2	1	1	1		1			2	1	1	2					17	mixer, grinder
roll machine (except printingroll machine)					1		2	3		3		2	1	3	1		1	1	2		1	2		23	roll machine (except printingroll machine)
injection molding machine																									injection molding machine
food manufacturing machine			1																					1	food manufacturing machine

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stairs, landing stage			16		13		7	7	11	11	10	6	5	12	7	8	7	9	4	10	6	6	6	161	stairs, landing stage
opening			1		2		1	2	3	2	1	1	1			1	1			2	3	1	2	24	opening
roof, beam, haze, crossbeam, principal rafter			10		9		5	5	5	4	6	1	6	6	3	7	1	2	5	1	7	3	2	88	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			36		21		24	26	35	16	17	18	12	10	10	16	11	16	12	19	12	4	10	325	working platform, boot board
passage			57		41		38	35	28	36	25	19	23	21	17	22	20	30	16	26	24	16	29	523	passage
building, establishment			13		8		10	14	9	11	9	6	14	3	12	7	9	5	6	8	4	5	8	161	building, establishment
other temporary buildings, establishments			10		10		8	8	7	7	10	4	7	6	1	4	4	3	7	7	4	1	4	112	other temporary buildings, establishments
explosive substance																1								1	explosive substance
inflammable substance					1			1											1					3	inflammable substance
inflammable gas										1														1	inflammable gas
harmful substance																					1			1	harmful substance
radiation																									radiation
other hazards, harmful substances								1			1									1				3	other hazards, harmful substances
metal material			24		12		14	12	13	2	3	4	6	4	5	7	3	4	5	4	6	4	3	135	metal material
lumber, bamboo			356		252		218	189	172	148	115	106	105	105	95	104	90	83	71	77	66	78	74	2,504	lumber, bamboo
stone, sand,			4		1				1			1		2		1							1	11	stone, sand,

substance																									substance
other materials			4		4		6	3	2	2	2	2	2	4	1	1	2	3	3		2			43	other materials
load			18		15		11	12	11	10	8	8	7	9	8	4	8	7	6	9	7	3	6	167	load
machine/equipment as load							1	1	1	2					1						1	1		8	machine/equipment as load
natural ground, rock			2		4		2	8	1	1	1			1	1	1		2	2	1	1	2		30	natural ground, rock
standing tree			7		8		4	5	7	3	9	6	2	3	2	6	3	2	3	3	3		3	79	standing tree
water										1			3		1						1			6	water
abnormal environment																									abnormal environment
high/cold temperature environment			2		1			2		1	1	2	4	3	1	3		1	2	1	3	4		31	high/cold temperature environment
other environments			10		10		4	3	4	3	2	4	4	3	5	4	3	2	8	5	2	2	3	81	other environments
other causal agent			2		10		7	1	4	3	2	1	3		4	2	1	2	1		2	1	13	59	other causal agent
no causal agent			14		19		13	12	12	7	9	19	9	5	7	10	13	7	12	11	8	11	8	206	no causal agent
unclassifiable			2		2		4	2		1	2		1	1	2				1	1	1	1		21	unclassifiable
total			1,561		1,266		1,136	960	951	820	693	686	680	654	593	615	542	487	528	510	506	455	496	14,139	total

Workers age of fatal and non-fatal accidents in lumbering 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	40	40	45	24	29	35	34	22	18	7	7	12	11	12	9	18	8	9	11	11	10	6	4	422	19 years old or

																										less
20-29	232	220	200	153	169	163	181	116	114	109	97	95	78	89	87	92	78	51	66	63	52	48	42	2,595	20-29	
30-39	201	230	191	168	177	195	175	163	138	137	125	123	134	111	116	96	107	94	92	72	75	56	59	3,035	30-39	
40-49	356	307	261	231	199	207	168	179	171	142	137	123	114	127	100	139	109	109	114	113	114	102	115	3,737	40-49	
50-59	595	511	461	358	351	335	301	263	269	221	169	162	175	145	128	122	108	107	125	119	120	125	128	5,398	50-59	
60 years old or more	517	467	403	350	341	277	277	217	241	204	158	171	168	170	153	148	132	117	120	132	135	118	148	5,164	60 years old or more	
total	1,941	1,775	1,561	1,284	1,266	1,212	1,136	960	951	820	693	686	680	654	593	615	542	487	528	510	506	455	496	20,351	total	

Workers' number of workplace of fatal and non-fatal accidents in lumbering 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	851	818	674	605	598	545	478	408	393	316	289	283	283	240	232	222	181	172	180	143	173	122	136	8,342	9 workers or less
10-29	792	685	640	483	481	468	457	370	369	333	264	250	216	232	208	224	201	157	193	196	166	165	189	7,739	10-29
30-49	196	169	141	122	120	115	126	98	109	76	75	61	86	85	82	100	82	74	78	83	85	84	91	2,338	30-49
50-99	79	79	84	50	42	68	55	59	58	61	37	58	71	53	32	47	42	49	50	65	56	57	56	1,308	50-99
100-299	22	24	18	23	23	16	19	20	16	33	20	30	21	38	33	20	34	28	23	16	17	14	12	520	100-299
300 workers or more	1		4	1	2		1	5	6	1	8	4	3	6	6	2	2	7	4	7	9	13	12	104	300 workers or more
total	1,941	1,775	1,561	1,284	1,266	1,212	1,136	960	951	820	693	686	680	654	593	615	542	487	528	510	506	455	496	20,351	total

Month of fatal and non-fatal accidents in lumbering in 1999-2021

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Wakayama	48	49	34		31		23	24	24	21	10	16	20	10	12	7	11	5	15	12	6	6	7	391	Wakayama
Tottori	10	10	12		6		4	3	9	8	3	1	1	6	3	4	4	4	3	3	3	1	1	99	Tottori
Shimane	31	32	22		12		11	21	10	7	13	6	6	11	4	11	7	7	8	11	5	4	8	247	Shimane
Okayama	42	39	42		52		27	28	25	24	12	10	14	17	17	13	11	14	20	15	14	17	10	463	Okayama
Hiroshima	49	56	44		29		29	29	21	23	11	16	16	22	19	23	20	15	22	11	16	16	21	508	Hiroshima
Yamaguchi	20	28	18		16		17	13	13	16	14	6	10	11	11	9	5	14	5	7	7	10	5	255	Yamaguchi
Tokushima	56	42	38		31		35	19	17	17	13	15	12	14	17	16	12	6	9	6	13	5	6	399	Tokushima
Kagawa	17	10	9		13		11	2	8	5	4	7	2	2	3	6	7		1	2	3	2	1	115	Kagawa
Ehime	85	63	58		49		43	37	34	36	27	17	24	17	23	22	20	22	17	18	22	21	16	671	Ehime
Kochi	49	45	41		49		21	29	30	21	19	14	12	12	12	13	15	17	16	12	13	13	14	467	Kochi
Fukuoka	51	58	47		41		43	36	29	28	18	19	21	18	16	19	11	16	11	11	13	3	9	518	Fukuoka
Saga	9	8	10		13		6	14	4	5	7	6	5	5	1	1	3	6	3	3	6	5	7	127	Saga
Nagasaki	14	13	10		5		9	8	4	8	2	7	4	4	2	4	6	5	3	5	6	1	4	124	Nagasaki
Kumamoto	63	42	43		37		42	27	35	34	33	26	23	26	26	24	22	16	15	16	18	12	17	597	Kumamoto
Oita	68	67	71		57		48	41	50	37	38	30	27	34	23	23	27	33	27	32	31	24	22	810	Oita
Miyazaki	102	65	58		56		57	52	57	42	43	48	55	47	40	30	36	34	38	33	35	41	42	1,011	Miyazaki
Kagoshima	27	24	20		19		19	22	8	17	23	16	15	12	9	12	6	12	16	14	17	4	14	326	Kagoshima
Okinawa	1	1								1			3		4					1				11	Okinawa
total	1,941	1,775	1,561		1,266		1,136	960	951	820	693	686	680	654	593	615	542	487	528	510	506	455	496	17,855	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)

Fatal accidents in lumbering in Japan in 1999-2021

lumbering industry Code No.010401

Type of fatal accidents in lumbering in 1999-2021

[illegible]

contact to high/low-temperature							1																1	2	high/low-temperature
contact to harmful substance																									contact to harmful substance
electric shock																									electric shock
explosion																									explosion
burst																									burst
fire																									fire
traffic accident (public road)	1			1			1																	3	traffic accident (public road)
traffic accident (others)																									traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others											1								1					2	others
unclassifiable											1													1	unclassifiable
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	147	total

Causal agents (large) of fatal accidents in lumbering in 1999-2021

[illegible]

machine	3	1	5	4	3	1	3	2	1	4		1	1	2	5	3	2				5		1	47	machine
crane, conveying machine	3	4	1	3	3	3	4	1	1	4		3	3	2	1	1	1	6	1		2	2	1	50	crane, conveying machine
other equipment	1	1			2											1		1	1	1				8	other equipment
temporary buildings, establishments	2	1	2		2				2	1	2					1			1				3	17	temporary buildings, establishments
substance, material	2	3	2	1		1		1			1		1				1		1					14	substance, material
load			1																					1	load
environment	2	1					1	1					3											8	environment
others											2													2	others
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	147	total

Causal agents (middle) of fatal accidents in lumbering in 1999-2021

[illegible]

[illegible]

tools																									machine, tools	
tools	1				2										1		1	1						6	tools	
other equipments, facilities		1																	1					2	other equipments, facilities	
temporary buildings, establishments	2	1	2		2					2	1	2				1			1					3	17	temporary buildings, establishments
hazards, harmful substances																										hazards, harmful substances
materials	2	3	2	1		1		1			1		1				1		1						14	materials
load			1																						1	load
natural environment	2	1						1	1					3											8	natural environment
other causal agent												1													1	other causal agent
no causal agent																										no causal agent
unclassifiable												1													1	unclassifiable
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	147	total	

Causal agents (small) of fatal accidents in lumbering in 1999-2021

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (S) agents
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engine																									engine	
power transmission mechanism										2					1										3	power transmission mechanism
circular sawing machine	1	1					1							1											4	circular sawing machine
band sawing machine	2		2		2		1	1				1	1			3						1			14	band sawing machine
wood planer machine			1																			1			2	wood planer machine
hollow chisel mortiser, wood borer																										hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																										chamfering machine, router, woodworking milling machine
chain saw																										chain saw
other woodworking machines			2	2			1		1					1	3		1					2		1	14	other woodworking machines
leveling, transporting or loading machine						1		1		1					1							1			5	leveling, transporting or loading machine
excavating machine																										excavating machine
foundation work machine																										foundation work machine

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

lumber, bamboo	2	3	2	1		1		1			1		1				1		1					14	lumber, bamboo
stone, sand, substance																									stone, sand, substance
other materials																									other materials
load			1																					1	load
machine/equipment as load																									machine/equipment as load
natural ground, rock								1																1	natural ground, rock
standing tree	1	1																						2	standing tree
water	1												3											4	water
abnormal environment																									abnormal environment
high/cold temperature environment								1																1	high/cold temperature environment
other environments																									other environments
other causal agent												1												1	other causal agent
no causal agent																									no causal agent
unclassifiable												1												1	unclassifiable
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	147	total

Workers age of fatal accidents in lumbering 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		2		1					2	1		2						2	1		13	20-29
30-39	1		1	1	1		3	1	2	3	1		1		1	1								17	30-39
40-49	1		1	1			1		1		2	1		1				2			2		1	14	40-49
50-59	3	3	4	2	2	3		2	1	3	1	1	2	1	2	1	2	1	3	1		1	2	41	50-59
60 years old or more	7	8	3	3	5	2	3	2		3	1	2	3	1	3	2	2	4	1		2		2	59	60 years old or more
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	147	total

Workers' number of workplace of fatal accidents in lumbering 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	7	9	3	2	5	4	1	2	2	4		1	4		3	2	3	1	1		3			57	9 workers or less
10-29	1	2	5	3	4	1	6	2	1	3	4	2	2		2	4	1	2	3	1	2	1	4	56	10-29
30-49	5		3	2	1			1	1	1	1		2	2				2			1		1	23	30-49
50-99				1								1		1				1			1	1		6	50-99
100-299							1			1				1										3	100-299
300 workers or more															1			1						2	300 workers or more
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	147	total

Month of fatal accidents in lumbering in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January			1	2	1			1	1	2		1		2		2				1	1		1	16	January

February	2	2			3				1		2			1		1			1		1			14	February	
March	2		1			2	1	1			1		3		2	1					1	1		16	March	
April	2			1	2	1							2		1		1	1						11	April	
May	1	1	1	2						1	1													7	May	
June			1				1	1		1					1		1					1		1	8	June
July	1	3		1			2							1				2				1		11	July	
August	2	1	2		1		1		1								2				1			11	August	
September	1	1	1				1			1		1	1			1	1	1					1	11	September	
October		2	2	1		1					1	1	1								1			10	October	
November		1			3		1	1		2		1	1		1				2		1		1	15	November	
December	2		2	1		1	1	1	1	2					1	1	1	1	1				1	17	December	
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	147	total	

Prefecture of fatal accidents in lumbering in 1999-2021

[illegible]

[illegible]

Tottori																									Tottori
Shimane		1																						1	Shimane
Okayama						1					1						1							3	Okayama
Hiroshima				1			1	1						1			1							5	Hiroshima
Yamaguchi		1		1																				2	Yamaguchi
Tokushima	3		1		1		1							1	1									8	Tokushima
Kagawa					1										1									2	Kagawa
Ehime		1			1			1						1			1			1				6	Ehime
Kochi				1					1		1	1			1	1					1			7	Kochi
Fukuoka					1																		1	2	Fukuoka
Saga																						1		1	Saga
Nagasaki																1								1	Nagasaki
Kumamoto								1	1	1							1				2			6	Kumamoto
Oita													1											1	Oita
Miyazaki						1	1			1	1	1				1						1		7	Miyazaki
Kagoshima																									Kagoshima
Okinawa																									Okinawa
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	147	total

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