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

lumbering industry Code No.010401

Type of accidents in lumbering 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	170	163	141	121	97	95	89	94	105	84	71	78	61	66	70	68	55	52	58	60	63	55	64	56	2,036
falling to same level	157	167	141	106	122	112	99	85	98	84	53	56	66	59	45	54	36	41	42	69	45	36	60	64	1,897
crash	92	76	68	55	45	48	63	46	36	37	26	29	26	18	20	20	22	24	23	26	27	28	19	17	891
struck by flying or falling object	237	191	172	150	149	143	113	96	108	77	77	49	68	68	50	67	53	54	55	41	43	38	41	39	2,179
collapse	37	37	36	24	21	32	20	22	20	17	12	12	11	9	11	11	10	5	7	11	8	9	10	8	400
crashed by	131	113	90	96	64	64	61	54	52	42	38	32	31	35	24	40	27	28	24	25	26	21	34	25	1,177
caught in/between	538	509	459	351	380	377	350	273	279	242	189	206	220	210	176	178	173	152	174	125	153	117	128	136	6,095
cut	456	415	365	292	302	269	269	223	204	187	182	176	148	156	148	132	123	100	104	113	103	108	98	97	4,770
injury to the sole of the foot	8	2	4	4		4	3	2	1	1	1		3	3	1	2	2	1	3		2	1		2	50
drown	1			1									3												5
contact to high/low-temperature	7	2	6	7	4	2	8	4	4	4	3	4	5	5	3	5			6	2	3	4	3	5	96

contact to harmful substance	2	2				1	1							1							1				8
electric shock	1				1											1		1	2						6
explosion			2	2							1				1										6
burst				2	1	1								1											5
fire	1																			1				2	4
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	1	104
traffic accident (others)							1	3							1					1					6
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	29	1,006
others	1	3	6	7	4	3	3	3	3	1	2	2	2		3	3	3	1	1	2	4		13		70
unclassifiable	2	1	2	2	1	1	2	2	1		2		2		1				1		1				21
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	481	20,832

Causal agents (large) of fatal and non-fatal accidents in lumbering 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	854	782	657	524	549	492	489	404	402	357	308	300	305	303	276	265	239	205	220	202	212	202	196	200	8,943
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	78	3,350

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	34	1,257
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	68	2,047
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	75	4,255
load	18	23	18	19	15	11	12	13	12	12	8	8	7	9	8	5	8	7	6	9	8	4	6	11	257
environment	21	16	21	15	23	19	10	18	12	9	13	12	13	10	10	14	6	7	15	10	10	8	6	11	309
others	38	36	18	21	31	29	24	15	16	11	13	20	13	6	13	12	14	9	14	12	11	13	21	4	414
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	481	20,832

Causal agents (middle) of fatal and non-fatal accidents in lumbering 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	1		1		1					1															4
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	11	395
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	170	7,913
construction machine	2	6	1	5	3	4	1	2	5	2		3	2	4	4	1	1	1		1	2	3	3	2	58

metal manufacturing machine	13	3	5	2	1	2	3	5	2	2	1	1	6	2	2	1	1	2	1	2	4	1		3	65
general machine	33	38	35	31	24	29	32	22	12	23	22	13	22	20	13	15	18	16	17	13	16	7	11	13	495
mobile silviculture machine																	3	3	1	1	1	2	1	1	13
crane	17	17	8	10	9	21	6	14	8	9	6	9	5	4	3	3	4	2	7	2	4	3	3	1	175
conveying machine	234	217	205	196	181	185	171	137	156	124	93	125	115	107	90	93	86	75	99	76	94	81	90	77	3,107
vehicle	5	5	8	6	4	2	2	3		2	2	5	1	5	4	3	3	2	1	2	2		1		68
pressure vessel	3			1		1			3		1	1	1		2				1				1	1	16
chemical facilities																									
welding equipment											1			1											2
kiln, caldron	2	1	3	3	2		4	1	1	1	1		1			1		1	3		1			1	27
electric equipment	3			1	1		3		1		1	1	1	3		1		2	2						20
human power machine, tools	45	32	27	31	25	34	27	15	16	15	12	12	10	13	10	13	14	5	9	10	5	8	7	10	405
tools	42	42	45	36	37	42	39	31	23	29	23	21	18	14	21	17	13	14	16	22	19	14	21	20	619
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	2	168
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	68	2,047
hazards, harmful substances	3	3		2	1	1		2		1	1					1			1	1	1				18
materials	460	442	388	309	269	258	238	204	188	152	120	113	113	115	101	113	95	90	79	81	74	82	78	75	4,237
load	18	23	18	19	15	11	12	13	12	12	8	8	7	9	8	5	8	7	6	9	8	4	6	11	257
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	11	309
other causal agent	6	9	2	2	10	3	7	1	4	3	2	1	3		4	2	1	2	1		2	1	13	1	80
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	3	306
unclassifiable	2	2	2	1	2	2	4	2		1	2		1	1	2				1	1	1	1			28
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	481	20,832

Causal agents (small) of fatal and non-fatal accidents in lumbering in 1999-2022

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine			1		1					1															3
power transmission mechanism			25		15		22	20	18	14	8	10	17	9	13	14	14	11	7	16	18	13	6	11	281
circular sawing machine			199		166		158	130	116	101	102	91	80	90	86	70	66	59	71	68	58	70	58	47	1,886
band sawing machine			136		114		88	68	75	51	44	40	56	36	30	42	33	33	33	29	21	30	20	24	1,003

wood planer machine			49		31		38	18	24	30	29	32	38	22	22	28	18	14	15	16	19	18	18	22	501
hollow chisel mortiser, wood borer			8		6		7	3	7	7	4	2	2	4	4	2	4	5	3		2		1	6	77
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	1	85
chain saw			17		24		12	18	8	15	13	15	6	15	6	10	7	2	5	3	3	6	6	6	197
other woodworking machines			172		152		124	112	130	108	81	89	73	100	90	79	71	55	62	48	66	49	70	64	1,795
leveling, transporting or loading machine			1				1	1	2	2		2		1	2	1	1	1			1	1	2		19
excavating machine					1				2			1		2	2					1	1	1	1		12
foundation work machine																									
hardening machine																									
demolition machine								1	1													1		2	5
vehicle for high lift work													1												1
other construction																									

machines					2								1	1											4
lathe			1																						1
drill press, milling machine			1				1								1			1		1				2	7
grinding machine, buffing machine			2		1		1	1		1	1		4	1	1		1	1	1	1	2	1			20
power press																									
forging pressure hammer																									
shearing machine			1																						1
other metal manufacturing machines							1	4	2	1		1	2	1		1					2			1	16
centrifugal machine																		1							1
mixer, grinder					3		2	2	1	1	1		1			2	1	1	2					1	18
roll machine (except printingroll machine)					1		2	3		3		2	1	3	1		1	1	2		1	2		2	25
injection molding machine																									
food manufacturing machine			1																						1

printing machine																									
industrial robot								1			1														2
other general power machines			34		20		28	16	11	19	20	11	20	17	12	13	16	13	13	13	15	5	11	10	317
felling machine																	3	3				1		1	8
mobile logging machine																				1	1		1		3
skyline yarding machine																									
other mobile silviculture machine																			1			1			2
crane			5		3		1	6	5	6	1	4	3	2	2	1	2		2	1	1	1	1	1	48
mobile crane			2		4		4	6	2		3	4	1	1		2	1	2	4	1		2	2		41
derrick crane					1																				1
elevator, lift			1		1			1							1		1				1				6
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway										1	1														2
simple skyline yarding equipment																									

other powered crane							1	1	1	2	1	1	1	1					1		2				12
truck			53		32		31	33	36	29	16	28	22	15	23	18	21	12	16	22	16	18	22	12	475
forklift			50		46		34	24	30	32	19	21	29	28	16	22	23	21	22	17	14	17	21	18	504
railway equipment							2		2		1						1					1			7
conveyor			90		86		98	76	82	61	51	66	57	58	45	46	37	37	51	34	58	42	44	44	1,163
loader					1			2	2		1		2	1	2	2	2		1	1	2	1	1	3	24
straddle carrier																									
rough terrain hauler					1						1														2
other powered conveying machines			12		15		6	2	4	2	4	10	5	5	4	5	2	5	9	2	4	2	2		100
cars, bus, motorcycle			7		4		2	3		2	2	5	1	4	4	2	3	2	1	2	2		1		47
railway vehicle																									
other vehicles			1											1		1									3
boiler									3		1	1			2				1					1	9
pressure vessel													1										1		2
other pressure vessels																									
chemical facilities																									
gas welding equipment											1														1

arc welding equipment														1											1
other welding equipment																									
kiln, caldron			3		2		4		1	1	1							1	2		1			1	17
industrial dryer													1			1			1						3
other kiln, caldron								1																	1
transmission							2		1		1	1		2				1	1						9
electric power facilities					1								1	1		1			1						5
other electrical equipment							1											1							2
human power cranes					1		1		1																3
human power hauling equipment			7		9		12	2	5	7	4	5	2	3	3	3	2	3	2	1	2	1	1	1	75
human power machine			1		1												2					1			5
hand tool			19		14		14	13	10	8	8	7	8	10	7	10	10	2	7	9	3	6	6	9	180
ladder			29		18		22	16	12	16	13	9	8	10	11	11	8	9	9	10	9	8	16	11	255
slinging tool			1		4		4		3	1	3	2	1			3	1		1	3					27
other tools			15		15		13	15	8	12	7	10	9	4	10	3	4	5	6	9	10	6	5	9	175

other equipment, facilities			18		12		14	6	8	8	9	4	5	4	4	6	3	3	5	6	2	2	5	2	126
scaffolding			2		3		4		7	3	3		4	2	1	3	4			4	3	2		1	46
timbering																									
stairs, landing stage			16		13		7	7	11	11	10	6	5	12	7	8	7	9	4	10	6	6	6	7	168
opening			1		2		1	2	3	2	1	1	1			1	1			2	3	1	2	3	27
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	2	90
working platform, boot board			36		21		24	26	35	16	17	18	12	10	10	16	11	16	12	19	12	4	10	15	340
passage			57		41		38	35	28	36	25	19	23	21	17	22	20	30	16	26	24	16	29	31	554
building, establishment			13		8		10	14	9	11	9	6	14	3	12	7	9	5	6	8	4	5	8	6	167
other temporary buildings, establishments			10		10		8	8	7	7	10	4	7	6	1	4	4	3	7	7	4	1	4	3	115
explosive substance																1									1
inflammable substance					1			1											1						3
inflammable gas										1															1
harmful substance																					1				1
radiation																									

other hazards, harmful substances								1			1									1					3
metal material			24		12		14	12	13	2	3	4	6	4	5	7	3	4	5	4	6	4	3	5	140
lumber, bamboo			356		252		218	189	172	148	115	106	105	105	95	104	90	83	71	77	66	78	74	70	2,574
stone, sand, substance			4		1				1			1		2		1							1		11
other materials			4		4		6	3	2	2	2	2	2	4	1	1	2	3	3		2				43
load			18		15		11	12	11	10	8	8	7	9	8	4	8	7	6	9	7	3	6	9	176
machine/equipment as load							1	1	1	2						1					1	1		2	10
natural ground, rock			2		4		2	8	1	1	1			1	1	1		2	2	1	1	2		1	31
standing tree			7		8		4	5	7	3	9	6	2	3	2	6	3	2	3	3	3		3	3	82
water										1			3		1						1				6
abnormal environment																									
high/cold temperature environment			2		1			2		1	1	2	4	3	1	3		1	2	1	3	4		1	32
other environments			10		10		4	3	4	3	2	4	4	3	5	4	3	2	8	5	2	2	3	6	87
other causal agent			2		10		7	1	4	3	2	1	3		4	2	1	2	1		2	1	13	1	60
no causal agent			14		19		13	12	12	7	9	19	9	5	7	10	13	7	12	11	8	11	8	3	209

unclassifiable			2		2		4	2		1	2		1	1	2				1	1	1	1			21
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	481	20,832

Workers age of fatal and non-fatal accidents in lumbering 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	40	40	45	24	29	35	34	22	18	7	7	12	11	12	9	18	8	9	11	11	10	6	4	8	430
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	48	2,643
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	64	3,099
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	106	3,843
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	120	5,518
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	135	5,299
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	481	20,832

Workers' number of workplace of fatal and non-fatal accidents in lumbering 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	851	818	674	605	598	545	478	408	393	316	289	283	283	240	232	222	181	172	180	143	173	122	136	116	8,458
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	189	7,928
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	85	2,423
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	54	1,362

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	30	550
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	7	111
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	481	20,832

Month of fatal and non-fatal accidents in lumbering 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	132	144	122	104	111	90	84	75	65	77	47	54	56	43	42	60	37	43	42	41	51	38	49	45	1,652
February	173	189	148	107	94	90	98	83	71	81	66	56	59	75	46	57	39	41	40	35	37	45	43	33	1,806
March	183	182	163	96	124	131	107	82	107	62	66	56	67	56	56	55	56	42	55	54	35	47	36	42	1,960
April	163	134	122	114	95	120	89	84	84	77	60	54	62	55	52	56	48	35	43	42	41	33	38	36	1,737
May	160	151	132	118	128	98	88	79	92	56	61	62	67	53	56	58	47	24	37	48	40	29	36	30	1,750
June	171	159	129	97	102	95	107	84	69	66	51	56	54	48	49	56	48	34	41	42	37	51	31	44	1,721
July	180	134	129	136	107	107	104	90	86	73	40	72	49	55	53	46	49	54	50	51	40	39	36	39	1,819
August	164	142	121	99	96	89	93	66	84	68	63	51	55	52	49	40	35	37	45	38	40	25	51	41	1,644
September	177	137	124	102	115	101	102	76	76	64	66	56	54	40	53	46	48	49	51	46	49	32	47	30	1,741
October	161	134	120	108	114	99	86	96	81	72	54	69	50	60	43	50	54	40	49	47	47	28	39	44	1,745
November	140	119	119	112	102	93	87	73	74	51	69	51	65	61	62	36	36	43	40	27	45	38	46	47	1,636
December	137	150	132	91	78	99	91	72	62	73	50	49	42	56	32	55	45	45	35	39	44	50	44	50	1,621
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	481	20,832

Prefecture of fatal and non-fatal accidents in lumbering 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	170	152	135		107		111	81	98	75	70	55	65	57	54	56	52	40	53	58	52	48	48	47	1,684
Aomori	41	41	19		20		16	9	9	12	10	11	11	14	8	7	8	4	8	8	10	7	4	5	282
Iwate	40	44	52		35		19	20	31	15	19	27	23	27	34	26	27	16	21	23	19	22	22	27	589
Miyagi	33	21	21		25		13	10	12	10	8	3	8	8	7	16	10	2	8	8	14	10	3	10	260
Akita	52	60	41		17		25	22	27	24	15	19	13	21	19	21	14	19	24	27	15	21	16	12	524
Yamagata	29	32	22		20		14	9	15	20	7	8	8	10	12	11	5	9	7	4	6	7	3	10	268
Fukushima	53	48	57		40		41	35	39	22	24	28	24	27	21	19	19	16	19	16	13	13	18	13	605
Ibaraki	20	40	27		20		24	19	21	16	13	10	4	14	11	8	9	8	8	12	10	7	5	14	320
Tochigi	38	12	20		14		19	10	11	14	6	8	11	7	7	12	10	8	5	5	14	4	12	8	255
Gunma	26	30	33		26		20	18	6	14	17	12	15	9	3	8	7	9	8	6	5	10	15	8	305
Saitama	19	9	13		11		9	7	8	8	6	7	7	5	7	4	6	4	7	3	1	6	6	3	156
Chiba	29	30	24		24		21	11	12	17	9	13	15	9	7	10	8	16	6	11	6	3	6	6	293
Tokyo	16	8	12		10		8	4	12	5	6	8	5	1	6	1	6		2	4	2		2	2	120
Kanagawa	9	6	4		8		5	3	5	6	2	3	3	1	3	3	2	4		1			1	4	73
Niigata	48	43	42		25		22	20	14	17	13	12	13	15	13	12	8	10	16	8	13	11	5	3	383
Toyama	38	47	28		25		30	16	21	8	9	11	11	15	12	16	6	5	8	7	11	4	7	8	343
Ishikawa	19	16	16		12		9	8	6	4	8	7	5	7	2	5	4	2	4	5	3	2	3	3	150
Fukui	21	24	10		3		17	11	14	15	12	16	11	17	6	6	4	6	7	5	5	4	1	5	220
Yamanashi	14	15	10		11		6	2	3	2	4	4	3	2	3	4	3	2	2	1		2	10	1	104

Nagano	39	21	22		21		17	15	14	11	11	14	10	9	8	7	9	6	10	7	3	6	11	18	289
Gifu	78	63	47		32		30	29	26	21	14	17	14	14	17	7	11	8	8	7	10	15	13	11	492
Shizuoka	74	87	63		51		46	39	41	23	19	34	33	18	16	24	7	15	11	17	14	6	6	11	655
Aichi	59	50	43		36		28	34	32	20	24	17	18	13	15	14	12	10	15	11	6	14	13	10	494
Mie	71	76	67		52		32	34	31	33	27	28	23	14	17	15	20	15	12	5	13	14	13	13	625
Shiga	16	13	12		6		10	11	5	4	6	3	4	2	3	1		1	1	6	2	3	4	3	116
Kyoto	26	20	26		15		22	13	10	6	5	6	13	10	9	8	8	5	6	6	6	4	6	4	234
Osaka	12	20	23		15		14	12	10	9	4	12	2	12	8	15	15	2	4	7	6	5	15	7	229
Hyogo	49	46	42		25		26	23	15	13	17	12	14	11	10	18	15	7	9	10	4	8	6	8	388
Nara	60	49	53		44		37	30	25	26	18	21	24	17	13	24	14	12	10	10	15	14	18	11	545
Wakayama	48	49	34		31		23	24	24	21	10	16	20	10	12	7	11	5	15	12	6	6	7	8	399
Tottori	10	10	12		6		4	3	9	8	3	1	1	6	3	4	4	4	3	3	3	1	1	3	102
Shimane	31	32	22		12		11	21	10	7	13	6	6	11	4	11	7	7	8	11	5	4	8	11	258
Okayama	42	39	42		52		27	28	25	24	12	10	14	17	17	13	11	14	20	15	14	17	10	16	479
Hiroshima	49	56	44		29		29	29	21	23	11	16	16	22	19	23	20	15	22	11	16	16	21	14	522
Yamaguchi	20	28	18		16		17	13	13	16	14	6	10	11	11	9	5	14	5	7	7	10	5	6	261
Tokushima	56	42	38		31		35	19	17	17	13	15	12	14	17	16	12	6	9	6	13	5	6	10	409
Kagawa	17	10	9		13		11	2	8	5	4	7	2	2	3	6	7		1	2	3	2	1		115
Ehime	85	63	58		49		43	37	34	36	27	17	24	17	23	22	20	22	17	18	22	21	16	21	692
Kochi	49	45	41		49		21	29	30	21	19	14	12	12	12	13	15	17	16	12	13	13	14	13	480
Fukuoka	51	58	47		41		43	36	29	28	18	19	21	18	16	19	11	16	11	11	13	3	9	5	523

Saga	9	8	10		13		6	14	4	5	7	6	5	5	1	1	3	6	3	3	6	5	7	2	129
Nagasaki	14	13	10		5		9	8	4	8	2	7	4	4	2	4	6	5	3	5	6	1	4	4	128
Kumamoto	63	42	43		37		42	27	35	34	33	26	23	26	26	24	22	16	15	16	18	12	17	12	609
Oita	68	67	71		57		48	41	50	37	38	30	27	34	23	23	27	33	27	32	31	24	22	18	828
Miyazaki	102	65	58		56		57	52	57	42	43	48	55	47	40	30	36	34	38	33	35	41	42	42	1,053
Kagoshima	27	24	20		19		19	22	8	17	23	16	15	12	9	12	6	12	16	14	17	4	14	11	337
Okinawa	1	1								1			3		4					1					11
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	481	20,832

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 lumbering in Japan in 1999-2022

lumbering industry Code No.010401

Type of fatal accidents in lumbering 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	2	3	2		4	1	2	1	2	1	1	2	1		1	2	2	1	1		1	1	2		33
falling to same level	1	2			1			1		1	1				1										8
crash					1			1																	2
struck by flying or falling object	3	2	1	1			1	1			1			1					1						12
collapse	2		3			1		1					1				1		1						10
crashed by	2	2	1	3			1			1					1			1	1		1		1		15
caught in/between		2	3	3	2	3	1		2	6		2	2	3	3	3	1	5			4	1	1	2	49
cut	1		1		2		1						1			1					1				8
injury to the sole of the foot																									
drown	1												3												4
contact to high/low-temperature							1																1		2
contact to harmful substance																									
electric shock																									
explosion																									
burst																									
fire																								1	1
traffic accident (public road)	1			1			1																		3

traffic accident (others)																									
reaction to motion/improper motion																									
others											1									1					2
unclassifiable											1														1
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	3	150

Causal agents (large) of fatal accidents in lumbering 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	3	1	5	4	3	1	3	2	1	4		1	1	2	5	3	2				5		1		47
crane, conveying machine	3	4	1	3	3	3	4	1	1	4		3	3	2	1	1	1	6	1		2	2	1	2	52
other equipment	1	1			2											1		1	1	1					8
temporary buildings, establishments	2	1	2		2				2	1	2					1			1				3		17
substance, material	2	3	2	1		1		1			1		1				1		1					1	15
load			1																						1
environment	2	1					1	1					3												8
others											2														2
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	3	150

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

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism										2					1										3
woodworking machine	3	1	5	2	2		3	1	1			1	1	2	3	3	1				4		1		34
construction machine				1	1	1		1		1					1						1				7
metal manufacturing machine																									
general machine				1						1							1								3
mobile silviculture machine																									
crane		2			1	1		1											1						6
conveying machine	3	2	1	3	2	2	2		1	4		3	3	2	1	1	1	6			1	2	1	2	43
vehicle							2														1				3
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									

human power machine, tools																									
tools	1				2											1		1	1						6
other equipments, facilities		1																		1					2
temporary buildings, establishments	2	1	2		2				2	1	2					1			1				3		17
hazards, harmful substances																									
materials	2	3	2	1		1		1			1		1				1		1					1	15
load			1																						1
natural environment	2	1					1	1					3												8
other causal agent											1														1
no causal agent																									
unclassifiable											1														1
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	3	150

Causal agents (small) of fatal accidents in lumbering in 1999-2022

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism										2					1										3

circular sawing machine	1	1					1							1											4
band sawing machine	2		2		2		1	1				1	1			3					1				14
wood planer machine			1																		1				2
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines			2	2			1		1					1	3		1				2		1		14
leveling, transporting or loading machine						1		1		1					1						1				5
excavating machine																									
foundation work machine																									
hardening machine																									
demolition machine																									
vehicle for high lift work																									
other construction machines				1	1																				2
lathe																									

drill press, milling machine																									
grinding machine, buffing machine																									
power press																									
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines																									
centrifugal machine																									
mixer, grinder										1															1
roll machine (except printingroll machine)																									
injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot				1																					1
other general power machines																	1								1
felling machine																									

mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane		2			1	1		1											1						6
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck	2			1		1	1										1					1			7
forklift	1	1		2	1					3		2	2					1							13
railway equipment																									
conveyor					1	1	1		1	1			1	2		1		4			1			2	16
loader		1																1							2
straddle carrier																									
rough terrain hauler																									

other powered conveying machines			1									1			1							1	1		5
cars, bus, motorcycle							2														1				3
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					2											1		1							4
slinging tool	1																		1						2
other tools																									
other equipment, facilities		1																		1					2
scaffolding	1																								1
timbering																									
stairs, landing stage																									
opening																							1		1
roof, beam, haze, crossbeam, principal rafter	1	1	1		2				1	1	1					1			1						10
working platform, boot board									1																1
passage																									
building, establishment											1												2		3
other temporary buildings,			1																						1

establishments																									
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance																									
radiation																									
other hazards, harmful substances																									
metal material																									
lumber, bamboo	2	3	2	1		1		1			1		1				1		1					1	15
stone, sand, substance																									
other materials																									
load			1																						1
machine/equipment as load																									
natural ground, rock								1																	1
standing tree	1	1																							2
water	1												3												4
abnormal environment																									
high/cold temperature environment							1																		1
other environments																									

other causal agent											1														1
no causal agent																									
unclassifiable											1														1
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	3	150

Workers age of fatal accidents in lumbering 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		2		1						2	1		2					2	1			13
30-39	1		1	1	1		3	1	2	3	1		1		1	1									17
40-49	1		1	1			1		1		2	1		1				2			2		1	2	16
50-59	3	3	4	2	2	3		2	1	3	1	1	2	1	2	1	2	1	3	1		1	2		41
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	1	60
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	3	150

Workers' number of workplace of fatal accidents in lumbering 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	7	9	3	2	5	4	1	2	2	4		1	4		3	2	3	1	1		3			1	58
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
30-49	5		3	2	1			1	1	1	1		2	2				2			1		1		23

50-99				1								1		1				1			1	1		1	7
100-299							1			1				1										1	4
300 workers or more															1			1							2
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	3	150

Month of fatal accidents in lumbering 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			1	2	1			1	1	2		1		2		2				1	1		1		16
February	2	2			3				1		2			1		1			1		1				14
March	2		1			2	1	1			1		3		2	1					1	1			16
April	2			1	2	1							2		1		1	1							11
May	1	1	1	2						1	1														7
June			1				1	1		1					1		1				1		1	2	10
July	1	3		1			2							1				2				1			11
August	2	1	2		1		1		1									2			1				11
September	1	1	1				1			1		1	1			1	1	1					1		11
October		2	2	1		1					1	1	1								1				10
November		1			3		1	1		2		1	1		1				2		1		1	1	16
December	2		2	1		1	1	1	1	2					1	1	1	1	1				1		17
total	13	11	11	8	10	5	8	5	4	9	5	4	8	4	6	6	4	7	4	1	7	2	5	3	150

Prefecture of fatal accidents in lumbering 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		2	1	1	2	2	1		3	1												1		15
Aomori			2																						2
Iwate			1										1	1					1					1	5
Miyagi		1			1								2											1	5
Akita	1									1	1												1		4
Yamagata																									
Fukushima	1		1	1			1			1			1												6
Ibaraki		1					1														1				3
Tochigi				1																					1
Gunma			1												1								1		3
Saitama		1													1										2
Chiba																									
Tokyo																									
Kanagawa																									
Niigata	1			1						1															3
Toyama	1	1			1		1																		4
Ishikawa			1																1						2
Fukui														1											1
Yamanashi																	1			1					2

Nagano		1			1								1												3
Gifu	1					1											1		1				1		5
Shizuoka		1			2					1		2	1	1				1			1				10
Aichi		1													1	1									3
Mie	1			1				1	1										1						5
Shiga	1		1																						2
Kyoto			1																						1
Osaka	1																								1
Hyogo																					1				1
Nara		1							1				1					3							6
Wakayama	1																1								2
Tottori																									
Shimane		1																							1
Okayama						1					1							1							3
Hiroshima				1			1	1							1			1							5
Yamaguchi		1		1																					2
Tokushima	3		1		1		1								1	1									8
Kagawa					1											1									2
Ehime		1			1			1						1				1			1				6
Kochi				1					1		1	1			1	1					1				7
Fukuoka					1																		1		2

Saga																						1			1
Nagasaki																1									1
Kumamoto								1	1	1							1				2				6
Oita													1												1
Miyazaki						1	1			1	1	1				1						1		1	8
Kagoshima																									
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	3	150

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

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