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

lumbering industry Code No.060201

Type of accidents in lumbering 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	177	161	141	135	150	122	121	130	134	125	119	107	105	111	101	93	112	96	87	109	80	69	104	2,689	fall from height
falling to same level	278	258	234	186	234	192	180	167	137	152	138	154	145	134	114	112	125	110	84	102	88	83	91	3,498	falling to same level
crash	53	44	44	39	41	37	40	24	26	26	22	23	26	21	27	23	20	22	25	26	26	23	18	676	crash
struck by flying or falling object	290	277	284	270	234	279	220	217	219	188	227	200	199	188	181	175	160	177	137	145	118	118	120	4,623	struck by flying or falling object
collapse	80	77	60	71	75	69	60	51	55	53	54	70	46	40	43	38	49	59	37	33	31	23	23	1,197	collapse
crashed by	401	365	363	362	314	320	341	356	328	312	286	357	327	287	238	261	249	251	214	211	229	229	203	6,804	crashed by
caught in/between	132	114	107	75	87	90	78	78	70	69	59	74	75	66	76	50	53	60	44	62	40	47	47	1,653	caught in/between
cut	471	475	394	381	428	398	352	336	378	393	337	339	352	267	240	242	227	202	183	154	155	147	148	6,999	cut
injury to the sole of the foot	4	6	1	1	5	5	3		2	3	2	8	1	4	3		4	2	3		7	6	5	75	injury to the sole of the foot
drown													1						1					2	drown
contact to high/low-temperature	4	6	2	3	4	4		1	3	10	4	4	3	6	4	7	7	10	2	4	7	6	3	104	contact to high/low-temperature
contact to harmful																									contact to

substance			1		1	1	3		1	1			1			1	1	2		1		3		17	harmful substance
electric shock	1		1		1		1	1		1								2						8	electric shock
explosion	1																						1	2	explosion
burst																									burst
fire		1	1	1		1	2				1	1			1		1	1	1					12	fire
traffic accident (public road)	11	11	1	11	12	15	5	6	13	5	9	7	9	15	4	5	7	5	4	6	5	12	14	192	traffic accident (public road)
traffic accident (others)	1	1																						2	traffic accident (others)
reaction to motion/improper motion	57	44	45	40	38	44	33	27	41	45	34	35	33	30	43	29	29	38	27	28	21	37	36	834	reaction to motion/improper motion
others	10	26	17	13	14	12	8	10	9	13	17	14	15	10	13	10	9	10	8	17	8	21	12	296	others
unclassifiable	3	3	4	1	3	1	2	1		2		2	2				1	2			1		2	30	unclassifiable
total	1,974	1,869	1,700	1,589	1,641	1,590	1,449	1,405	1,416	1,398	1,309	1,395	1,340	1,179	1,088	1,046	1,054	1,049	857	898	816	824	827	29,713	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	499	463	404	399	442	421	390	367	409	407	357	366	378	308	279	275	298	290	228	228	222	231	225	7,886	machine
crane, conveying machine	160	154	116	122	120	121	111	111	107	111	92	95	78	106	86	83	59	56	45	58	35	37	40	2,103	crane, conveying machine

other equipment	119	117	119	99	112	72	78	72	57	68	56	56	63	50	40	31	36	44	27	33	26	34	33	1,442	other equipment
temporary buildings, establishments	61	60	41	38	52	49	35	56	40	33	27	37	39	28	19	31	29	33	23	39	25	25	37	857	temporary buildings, establishments
substance, material	186	150	134	137	99	121	132	112	118	82	72	90	86	70	88	70	60	70	41	64	47	56	46	2,131	substance, material
load	10	4	2	7	5	4	4	4	3	4	3	5	3	6	6	4	2	3	1	8	2	2	1	93	load
environment	910	888	854	766	794	781	683	670	661	670	679	734	672	597	548	538	558	532	475	450	447	421	423	14,751	environment
others	29	33	30	21	17	21	16	13	21	23	23	12	21	14	22	14	12	21	17	18	12	18	22	450	others
total	1,974	1,869	1,700	1,589	1,641	1,590	1,449	1,405	1,416	1,398	1,309	1,395	1,340	1,179	1,088	1,046	1,054	1,049	857	898	816	824	827	29,713	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		1		1							6	engine
power transmission mechanism	1	1	1						1		1		1					2						8	power transmission mechanism
woodworking machine	397	392	324	315	351	347	323	299	344	340	297	308	305	251	221	223	214	186	152	142	144	130	136	6,141	woodworking machine
construction machine	37	14	22	19	25	26	23	23	14	20	22	16	26	22	26	16	7	12	8	12	10	9	13	422	construction machine
metal manufacturing	6			1	1		1	1	1	1		1				1				1		1		16	metal manufacturing

machine																									machine
general machine	57	55	57	64	65	48	43	44	49	45	37	41	45	35	31	35	22	28	25	26	26	27	30	935	general machine
mobile silviculture machine																	54	62	43	47	42	64	46	358	mobile silviculture machine
crane	75	75	69	50	52	47	57	49	35	49	32	51	26	36	31	30	23	20	16	16	10	13	14	876	crane
conveying machine	75	69	45	58	55	61	50	58	64	53	51	35	46	58	48	50	28	33	27	36	19	14	16	1,049	conveying machine
vehicle	10	10	2	14	13	13	4	4	8	9	9	9	6	12	7	3	8	3	2	6	6	10	10	178	vehicle
pressure vessel																	1	1						2	pressure vessel
chemical facilities																									chemical facilities
welding equipment																									welding equipment
kiln, caldron																						1		1	kiln, caldron
electric equipment	1				1		1	1		1								1						6	electric equipment
human power machine, tools	81	78	72	51	69	46	39	30	29	30	29	30	39	26	18	11	15	19	12	13	9	14	14	774	human power machine, tools
tools	36	37	42	48	42	25	37	40	24	33	26	24	24	24	21	19	19	21	15	18	16	19	18	628	tools
other equipments, facilities	1	2	5			1	1	1	4	4	1	2			1	1	1	2		2	1		1	31	other equipments, facilities
																									temporary

temporary buildings, establishments	61	60	41	38	52	49	35	56	40	33	27	37	39	28	19	31	29	33	23	39	25	25	37	857	buildings, establishments
hazards, harmful substances	2	1	1	1	2		2		2	2	1	1		2			1	2	1				2	23	hazards, harmful substances
materials	184	149	133	136	97	121	130	112	116	80	71	89	86	68	88	70	59	68	40	64	47	56	44	2,108	materials
load	10	4	2	7	5	4	4	4	3	4	3	5	3	6	6	4	2	3	1	8	2	2	1	93	load
natural environment	910	888	854	766	794	781	683	670	661	670	679	734	672	597	548	538	558	532	475	450	447	421	423	14,751	natural environment
other causal agent	7	14	7	7	7	6	2	2	9	4	8	1	7	3	9	7	4	5	4	7	1	7	3	131	other causal agent
no causal agent	18	15	18	13	6	11	11	9	12	18	15	10	11	11	12	7	7	13	13	11	11	11	17	280	no causal agent
unclassifiable	4	4	5	1	4	4	3	2		1		1	3		1		1	3					2	39	unclassifiable
total	1,974	1,869	1,700	1,589	1,641	1,590	1,449	1,405	1,416	1,398	1,309	1,395	1,340	1,179	1,088	1,046	1,054	1,049	857	898	816	824	827	29,713	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		1							4	engine
power transmission mechanism			1						1		1		1					2						6	power transmission mechanism
circular sawing machine			6		2		1	1		2	2	1	4	1	4	1			1	1	1		2	30	circular sawing machine
band sawing										1	1		1				1				1			5	band sawing

machine																									machine
wood planer machine								1															1	2	wood planer machine
hollow chisel mortiser, wood borer			1				1		1		2	1			1					1				8	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine								1											1	1				3	chamfering machine, router, woodworking milling machine
chain saw			276		324		301	273	317	308	275	282	277	228	207	209	205	172	143	133	135	123	126	4,314	chain saw
other woodworking machines			41		25		20	23	26	29	17	24	23	22	9	13	8	14	7	6	7	7	7	328	other woodworking machines
leveling, transporting or loading machine			6		9		5	8	1	6	7	4	6	9	5	2		2	2	5	2	1	2	82	leveling, transporting or loading machine
excavating machine			12		10		6	9	7	8	9	6	8	4	8	4	4	6	3	4	8	7	10	133	excavating machine
foundation work machine																									foundation work machine
hardening machine																									hardening machine
demolition machine															2	1	1		1					5	demolition machine
vehicle for high lift work							1	1	1									2						5	vehicle for high lift work
other construction machines			4		6		11	5	5	6	6	6	12	9	11	9	2	2	2	3		1	1	101	other construction machines
lathe																									lathe

drill press, milling machine																									drill press, milling machine
grinding machine, buffing machine							1									1				1		1		4	grinding machine, buffing machine
power press																									power press
forging pressure hammer																									forging pressure hammer
shearing machine																									shearing machine
other metal manufacturing machines					1			1	1	1		1												5	other metal manufacturing machines
centrifugal machine																									centrifugal machine
mixer, grinder								1										1					1	3	mixer, grinder
roll machine (except printingroll machine)																									roll machine (except printingroll machine)
injection molding machine																				1				1	injection molding machine
food manufacturing machine															1									1	food manufacturing machine
printing machine																									printing machine
industrial robot																									industrial robot
other general power machines			57		65		43	43	49	45	37	41	45	35	30	35	22	27	25	25	26	27	29	706	other general power machines
felling machine																	26	35	24	18	19	40	23	185	felling machine

mobile logging machine																	20	14	12	19	13	12	8	98	mobile logging machine
skyline yarding machine																	7	12	6	9	9	10	12	65	skyline yarding machine
other mobile silviculture machine																	1	1	1	1	1	2	3	10	other mobile silviculture machine
crane			1		1		1			1		1					1						1	7	crane
mobile crane			11		7		7	10	8	7	3	9	4	5	7	3	3	2	8	2	3	2	3	104	mobile crane
derrick crane																									derrick crane
elevator, lift																									elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway			52		38		41	34	24	31	25	31	17	24	20	24	16	15	8	10	5	9	8	432	lumberyard equipment, logging cableway
simple skyline yarding equipment																	1	1				2	1	5	simple skyline yarding equipment
other powered crane			5		6		8	5	3	10	4	10	5	7	4	3	2	2		4	2		1	81	other powered crane
truck			20		21		22	24	33	21	20	12	17	24	15	20	19	19	21	21	12	13	14	368	truck
forklift					1		1	1	1	1	2	1		1	1			2		1				13	forklift
railway equipment					2															2				4	railway equipment
conveyor			1						1				1		1	2	1	2	1	1	1		1	13	conveyor
loader			1					1				1									1			4	loader

straddle carrier																									straddle carrier
rough terrain hauler					3				2	2				3	2	1	2	1	1	1	2	1	1	22	rough terrain hauler
other powered conveying machines			23		28		27	32	27	29	29	21	28	30	29	27	6	9	4	10	3			362	other powered conveying machines
cars, bus, motorcycle			2		13		4	4	8	9	7	8	6	11	7	2	8	3	2	6	6	9	10	125	cars, bus, motorcycle
railway vehicle																									railway vehicle
other vehicles											2	1		1		1						1		6	other vehicles
boiler																									boiler
pressure vessel																	1	1						2	pressure vessel
other pressure vessels																									other pressure vessels
chemical facilities																									chemical facilities
gas welding equipment																									gas welding equipment
arc welding equipment																									arc welding equipment
other welding equipment																									other welding equipment
kiln, caldron																						1		1	kiln, caldron
industrial dryer																									industrial dryer
other kiln, caldron																									other kiln, caldron
transmission					1		1	1		1								1						5	transmission
electric power facilities																									electric power facilities

other electrical equipment																									other electrical equipment
human power cranes					1			1			1		2						1	2		1	3	12	human power cranes
human power hauling equipment											1							1					2	4	human power hauling equipment
human power machine			3				1	1	2	1		2					1	1	2				1	15	human power machine
hand tool			69		68		38	28	27	29	27	28	37	26	18	11	14	17	9	11	9	13	8	487	hand tool
ladder			12		15		11	16	6	13	12	9	10	15	8	4	7	8	6	12	4	2	15	185	ladder
slinging tool			4		9		5	6	3	5	6	2	2	4	1	3	3	2	2	1	1	3	1	63	slinging tool
other tools			26		18		21	18	15	15	8	13	12	5	12	12	9	11	7	5	11	14	2	234	other tools
other equipment, facilities			5				1	1	4	4	1	2			1	1	1	2		2	1		1	27	other equipment, facilities
scaffolding			1					1		1						1			1	2	2	1		10	scaffolding
timbering			1										1											2	timbering
stairs, landing stage			2		2			2						4						1	1	1	1	14	stairs, landing stage
opening																									opening
roof, beam, haze, crossbeam, principal rafter			1				1	3		1	1	1			1		2	2	1					14	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			15		17		5	17	12	12	9	12	10	6	8	13	7	3	1	13	10	6	5	181	working platform, boot board
passage			18		26		19	27	24	14	16	20	25	16	9	14	16	21	20	15	9	12	26	347	passage
building,			2		3		3	5	4	5		2	3	1	1	1	1	5		5	2	1	5	49	building,

establishment																									establishment
other temporary buildings, establishments			1		4		7	1			1	2		1		2	3	2		3	1	4		32	other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance					1				1	2	1	1		1			1	1	1				1	11	inflammable substance
inflammable gas																									inflammable gas
harmful substance			1															1					1	3	harmful substance
radiation																									radiation
other hazards, harmful substances					1		2		1					1										5	other hazards, harmful substances
metal material			4		2		5	6	8	2	6	3	3	3	2	2	4	4	1		1	4	4	64	metal material
lumber, bamboo			119		92		121	102	103	76	62	76	77	61	81	63	53	63	37	57	41	48	39	1,371	lumber, bamboo
stone, sand, substance			9		1		4	3	2	2	3	9	6	3	4	5	2	1	2	7	5	4	1	73	stone, sand, substance
other materials			1		2			1	3			1		1	1									10	other materials
load			2		4		3	4	2	4	3	4	2	5	6	4	2	2		8	2	2	1	60	load
machine/equipment as load					1		1		1			1	1	1				1	1					8	machine/equipment as load
natural ground, rock			168		189		129	128	114	150	134	126	115	114	93	92	118	92	88	89	76	71	83	2,169	natural ground, rock
standing tree			654		563		528	512	524	489	518	567	531	449	430	417	421	409	363	339	345	315	310	8,684	standing tree
water					1			1	2				6				1		1					12	water
abnormal																									abnormal

environment					1																			1	environment
high/cold temperature environment			2		1		1	1	1	2	2	2	1	4	4	5	3	8		2	5	5	2	51	high/cold temperature environment
other environments			30		39		25	28	20	29	25	39	19	30	21	24	15	23	23	20	21	30	28	489	other environments
other causal agent			7		7		2	2	9	4	8	1	7	3	9	7	4	5	4	7	1	7	3	97	other causal agent
no causal agent			18		6		11	9	12	18	15	10	11	11	12	7	7	13	13	11	11	11	17	223	no causal agent
unclassifiable			5		4		3	2		1		1	3		1		1	3					2	26	unclassifiable
total			1,700		1,641		1,449	1,405	1,416	1,398	1,309	1,395	1,340	1,179	1,088	1,046	1,054	1,049	857	898	816	824	827	22,691	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	22	15	21	25	19	25	18	17	14	9	5	17	19	8	10	10	15	7	13	20	13	12	4	338	19 years old or less
20-29	139	129	133	140	132	151	124	136	130	152	143	163	144	122	109	97	115	107	76	97	85	81	101	2,806	20-29
30-39	157	178	148	140	194	199	184	181	181	222	194	215	210	218	187	180	195	197	155	174	147	140	140	4,136	30-39
40-49	246	214	222	201	204	199	204	177	187	194	182	198	222	196	198	164	195	189	175	171	175	161	177	4,451	40-49
50-59	434	409	379	310	392	386	365	353	384	330	307	340	314	260	240	225	212	202	170	155	143	160	155	6,625	50-59
60 years old or more	976	924	797	773	700	630	554	541	520	491	478	462	431	375	344	370	322	347	268	281	253	270	250	11,357	60 years old or more
total	1,974	1,869	1,700	1,589	1,641	1,590	1,449	1,405	1,416	1,398	1,309	1,395	1,340	1,179	1,088	1,046	1,054	1,049	857	898	816	824	827	29,713	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	1,166	1,101	1,006	897	929	902	830	821	831	826	750	751	717	618	595	577	528	530	469	469	439	419	407	16,578	9 workers or less
10-29	411	390	329	354	380	361	314	272	298	295	292	334	333	314	288	283	298	315	245	243	221	242	258	7,070	10-29
30-49	209	179	180	183	175	183	161	161	143	153	148	170	154	113	101	103	132	104	80	108	95	101	90	3,226	30-49
50-99	140	153	131	127	118	120	114	123	112	97	106	115	112	111	89	61	76	74	39	53	47	48	57	2,223	50-99
100-299	48	46	54	28	39	24	30	27	32	27	13	25	24	23	15	21	20	25	24	25	14	14	15	613	100-299
300 workers or more								1								1		1						3	300 workers or more
total	1,974	1,869	1,700	1,589	1,641	1,590	1,449	1,405	1,416	1,398	1,309	1,395	1,340	1,179	1,088	1,046	1,054	1,049	857	898	816	824	827	29,713	total

Month of fatal and non-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	154	138	114	105	123	113	121	93	128	110	80	83	111	122	89	98	82	70	69	86	72	53	52	2,266	January
February	151	156	141	139	138	154	104	111	114	111	134	104	118	100	94	80	82	94	74	72	62	78	83	2,494	February
March	163	187	161	154	144	154	133	132	129	119	115	129	121	123	114	75	92	115	77	78	65	69	80	2,729	March
April	182	148	121	117	115	98	122	103	103	123	100	110	104	78	94	109	78	77	62	82	69	69	65	2,329	April
May	168	162	149	119	128	123	117	88	92	114	109	104	107	81	74	67	94	79	60	69	75	60	59	2,298	May
June	147	133	143	143	103	120	119	105	115	119	98	124	102	79	77	92	75	83	64	71	71	66	66	2,315	June
July	166	161	142	135	142	115	131	116	95	126	97	119	96	106	87	99	80	92	61	72	64	64	75	2,441	July
August	151	175	141	112	124	117	114	101	114	94	113	115	106	99	87	69	78	79	72	70	56	75	59	2,321	August
September	162	145	143	135	159	149	123	132	107	132	120	141	110	103	91	89	96	84	71	80	91	74	61	2,598	September
October	189	165	173	164	197	135	130	157	141	122	117	125	126	112	96	99	106	98	70	61	74	67	94	2,818	October
November	179	150	148	152	116	165	147	136	154	111	136	127	119	88	107	80	104	102	87	82	63	79	68	2,700	November

December	162	149	124	114	152	147	88	131	124	117	90	114	120	88	78	89	87	76	90	75	54	70	65	2,404	December
total	1,974	1,869	1,700	1,589	1,641	1,590	1,449	1,405	1,416	1,398	1,309	1,395	1,340	1,179	1,088	1,046	1,054	1,049	857	898	816	824	827	29,713	total

Prefecture of fatal and non-fatal accidents in lumbering 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	169	114	118		134		136	124	109	72	91	96	70	70	64	74	71	85	55	44	52	41	54	1,843	Hokkaido
Aomori	41	32	21		15		16	10	14	13	18	14	20	19	21	20	14	15	14	13	24	14	13	381	Aomori
Iwate	61	53	61		57		45	47	67	43	51	64	62	57	51	59	44	56	46	32	32	30	36	1,054	Iwate
Miyagi	32	22	28		20		27	31	34	28	28	23	28	33	22	25	18	25	18	26	19	24	29	540	Miyagi
Akita	42	41	47		41		28	38	29	35	35	49	46	31	31	26	38	36	29	38	38	36	31	765	Akita
Yamagata	27	22	18		22		17	12	14	19	13	17	11	14	13	17	17	15	5	6	10	5	9	303	Yamagata
Fukushima	36	34	35		38		23	28	28	40	27	45	33	20	24	22	15	29	21	26	19	17	23	583	Fukushima
Ibaraki	10	8	8		6		5	4	5	9	4	13	6	10	7	11	2	5	7	6	3	10	6	145	Ibaraki
Tochigi	23	22	21		26		23	24	19	25	22	10	14	13	9	20	21	19	10	15	4	12	16	368	Tochigi
Gunma	37	28	26		33		19	24	28	25	17	42	24	20	17	18	23	22	21	16	15	17	20	492	Gunma
Saitama	7	9	6		11		5	2	7	9	9	3	10	5	3	9	4	2	4	6	4	7	3	125	Saitama
Chiba	9	9	7		8		2	5	7	6	3	7	3	10	7	1	5	9	3	4	1	4	6	116	Chiba
Tokyo	3	6	6		2		2	6	7	1	1	2	1	2	6	4	2	1	4	2		3	4	65	Tokyo
Kanagawa	8	8	7		2		4	5	4	5		4	6	1	6		4	4	3	5	6	6	4	92	Kanagawa
Niigata	43	32	20		17		12	16	14	20	18	12	16	8	11	3	9	8	6	6	5	4	7	287	Niigata
Toyama	5	2	8		6		5	7	5	7	9	7	11	5	6	3	1	8	6	5	3	4	5	118	Toyama
Ishikawa	9	16	15		12		4	6	5	5		4	2	6	1	3	1	5	8	5	5	6	9	127	Ishikawa
Fukui	16	22	13		9		14	12	26	25	15	26	14	15	18	15	8	16	9	8	8	13	8	310	Fukui

Yamanashi	9	13	7		11		9	12	13	12	12	4	9	16	11	7	10	11	7	8	9	8	10	208	Yamanashi
Nagano	48	50	30		49		33	44	24	38	40	43	29	22	34	27	30	18	20	20	15	28	28	670	Nagano
Gifu	92	93	85		64		64	85	71	76	31	49	48	25	46	48	36	38	36	52	33	29	26	1,127	Gifu
Shizuoka	59	68	78		69		64	49	57	63	55	62	73	44	43	31	41	33	28	49	22	31	42	1,061	Shizuoka
Aichi	33	25	16		12		13	13	11	11	11	16	17	8	11	13	11	8	14	8	5	14	6	276	Aichi
Mie	87	68	90		58		60	54	47	57	54	77	46	46	32	28	24	39	26	25	21	23	22	984	Mie
Shiga	4	18	10		18		4	7	5	9	7	5	7	2	1	4	3	1	4	3	2	1	2	117	Shiga
Kyoto	41	36	46		47		38	44	38	33	23	29	34	43	21	21	24	24	15	19	20	15	13	624	Kyoto
Osaka	11	2	3		2		3	4	3	8	3	2	3	1	5	4	3	4	3		1			65	Osaka
Hyogo	34	28	47		43		35	42	36	26	40	22	22	14	16	18	21	19	18	16	15	15	12	539	Hyogo
Nara	120	84	70		62		41	51	46	32	53	52	52	49	37	37	31	30	25	25	28	31	18	974	Nara
Wakayama	94	101	77		70		62	47	48	59	75	72	59	45	40	42	39	43	41	44	36	24	15	1,133	Wakayama
Tottori	27	18	14		19		18	12	6	15	16	10	21	17	15	12	20	13	8	17	9	10	11	308	Tottori
Shimane	23	38	30		25		24	26	26	18	28	17	23	28	25	25	22	26	17	13	17	15	18	484	Shimane
Okayama	29	65	74		61		68	54	57	58	22	15	48	37	32	20	43	35	23	27	26	27	32	853	Okayama
Hiroshima	82	69	52		40		49	31	34	26	30	16	34	14	22	16	29	10	13	14	10	13	19	623	Hiroshima
Yamaguchi	18	35	22		19		13	24	18	12	23	29	15	29	12	20	10	12	8	6	8	11	9	353	Yamaguchi
Tokushima	45	64	40		29		28	27	26	23	39	38	31	32	23	17	23	26	15	25	7	15	13	586	Tokushima
Kagawa	9	7	10		2		2	1		3		2	2			3	2			2			1	46	Kagawa
Ehime	52	58	69		83		67	35	49	48	48	13	10	22	24	31	26	18	16	16	20	12	8	725	Ehime
Kochi	142	115	84		130		100	88	98	97	68	104	96	77	54	64	66	69	56	45	52	59	50	1,714	Kochi
Fukuoka	39	27	36		20		29	29	22	21	18	22	24	28	29	22	22	19	21	12	16	20	19	495	Fukuoka
Saga	15	8	10		16		8	11	15	19	22	22	15	11	17	17	16	12	9	10	11	10	6	280	Saga
Nagasaki	3	13	15		4		6	4	9	8	5	13	9	12	9	7	7	1	7		4	2	2	140	Nagasaki

Kumamoto	67	69	49		63		50	42	54	59	49	42	49	60	40	39	48	36	28	36	39	31	24	974	Kumamoto
Oita	46	52	42		35		50	52	53	47	59	37	47	37	47	45	33	47	50	45	27	26	30	907	Oita
Miyazaki	114	108	80		88		68	75	72	96	57	87	91	77	87	62	75	55	51	57	72	56	63	1,591	Miyazaki
Kagoshima	53	57	47		43		56	41	51	37	60	57	49	44	38	34	41	42	29	41	43	44	45	952	Kagoshima
Okinawa			2						5							2	1					1		11	Okinawa
total	1,974	1,869	1,700		1,641		1,449	1,405	1,416	1,398	1,309	1,395	1,340	1,179	1,088	1,046	1,054	1,049	857	898	816	824	827	26,534	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

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Fatal accidents in lumbering in Japan in 1999-2021

lumbering industry Code No.060201

Type of fatal accidents in lumbering 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	8	4	5	4	11	6	2	4	10	6	8	9	6	4	6	4	8	4	3	4	4	6	3	129	fall from height
falling to same level	2		1	1	2		1	1			1	1			1		1	2	1	2	1	1	1	20	falling to same level
crash	2											1	1				1					1		6	crash
																									struck by flying

struck by flying or falling object	8	9	10	3	6	5	5	2	4	5	7	4	2	2	7	3	5		3	5	3	1	3	102	or falling object
collapse	9	8	5	8	8	5	5	8	6	4	1	7	4	3	2	3	7	2	4	4	1	5	1	110	collapse
crashed by	23	20	12	19	10	13	19	19	22	12	9	14	10	12	8	21	7	19	17	10	12	10	11	329	crashed by
caught in/between	2	3	1	1	2	1	1	2	2	2	2	1	1		2	1		1	4	1	1	1	1	33	caught in/between
cut					1										1							1		3	cut
injury to the sole of the foot																									injury to the sole of the foot
drown										1			1											2	drown
contact to high/low-temperature								1						1				1						3	contact to high/low-temperature
contact to harmful substance																									contact to harmful substance
electric shock																		1						1	electric shock
explosion																									explosion
burst																									burst
fire																									fire
traffic accident (public road)				1	1			4				2							1	1	1			11	traffic accident (public road)
traffic accident (others)																									traffic accident (others)
reaction to motion/improper																									reaction to motion/improper

motion																									motion
others				1				2	1				4								1			9	others
unclassifiable	1				1												1						1	4	unclassifiable
total	55	44	34	38	42	30	33	43	45	30	28	39	29	22	27	32	30	30	33	27	24	26	21	762	total

Causal agents (large) of 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	4	1	1	1	2		2	2	3	2	2	1	2		1		5	4	5	5	3	6	1	53	machine
crane, conveying machine	5	7	7	8	7	7	5	11	3	4	6	7	2	1	3	5		1	5	1	3	3		101	crane, conveying machine
other equipment	1				2	2	1		1		2			1				2	1		1			14	other equipment
temporary buildings, establishments					1				1			1												3	temporary buildings, establishments
substance, material	1	3	2	3					2	1		2			1		1			2	1			19	substance, material
load		1					1		2															4	load
environment	43	32	24	26	29	21	24	30	33	23	18	28	24	20	22	27	23	23	22	19	16	17	19	563	environment
others	1				1								1				1						1	5	others
total	55	44	34	38	42	30	33	43	45	30	28	39	29	22	27	32	30	30	33	27	24	26	21	762	total

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

																									Causal (M)

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	agents
engine																									engine
power transmission mechanism																									power transmission mechanism
woodworking machine					1										1		1					1		4	woodworking machine
construction machine	4	1	1	1	1		1		2	2	1		2							2	1			19	construction machine
metal manufacturing machine																									metal manufacturing machine
general machine							1	2	1		1	1												6	general machine
mobile silviculture machine																	4	4	5	3	2	5	1	24	mobile silviculture machine
crane	2	6	5	5	1	3	3	4	1		3	2	1	1	2	3		1	2			1		46	crane
conveying machine	3	1	2	2	6	4	2	4	2	4	2	4	1		1	2			3	1	3	2		49	conveying machine
vehicle				1				3			1	1												6	vehicle
pressure vessel																									pressure vessel
chemical facilities																									chemical facilities
welding equipment																									welding equipment

kiln, caldron																									kiln, caldron
electric equipment																		1						1	electric equipment
human power machine, tools																									human power machine, tools
tools					2	2	1		1		2			1				1	1		1			12	tools
other equipments, facilities	1																							1	other equipments, facilities
temporary buildings, establishments					1				1			1												3	temporary buildings, establishments
hazards, harmful substances																									hazards, harmful substances
materials	1	3	2	3					2	1		2			1		1			2	1			19	materials
load		1					1		2															4	load
natural environment	43	32	24	26	29	21	24	30	33	23	18	28	24	20	22	27	23	23	22	19	16	17	19	563	natural environment
other causal agent																									other causal agent
no causal agent																									no causal agent
unclassifiable	1				1								1				1						1	5	unclassifiable
total	55	44	34	38	42	30	33	43	45	30	28	39	29	22	27	32	30	30	33	27	24	26	21	762	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
engine																									engine
power transmission mechanism																									power transmission mechanism
circular sawing machine																									circular sawing machine
band sawing machine																									band sawing machine
wood planer machine																									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					1												1					1		3	chain saw
other woodworking machines															1									1	other woodworking machines
leveling, transporting or loading machine	4	1	1	1	1				1	1											1			11	leveling, transporting or loading machine
excavating machine									1	1	1													3	excavating machine
foundation work machine																									foundation work

																									machine
hardening machine																									hardening machine
demolition machine																				2				2	demolition machine
vehicle for high lift work																									vehicle for high lift work
other construction machines							1						2											3	other construction machines
lathe																									lathe
drill press, milling machine																									drill press, milling machine
grinding machine, buffing machine																									grinding machine, buffing machine
power press																									power press
forging pressure hammer																									forging pressure hammer
shearing machine																									shearing machine
other metal manufacturing machines																									other metal manufacturing machines
centrifugal machine																									centrifugal machine
mixer, grinder								1																1	mixer, grinder
roll machine (except printingroll machine)																									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	1												5	other general power machines
felling machine																	1	2	4		2	3	1	13	felling machine
mobile logging machine																	2	2	1	3		2		10	mobile logging machine
skyline yarding machine																	1							1	skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
crane																									crane
mobile crane			1	1	1							1			2				1					7	mobile crane
derrick crane																									derrick crane
elevator, lift																									elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway	2	6	4	4		3	3	4	1		3		1	1		3		1	1			1		38	lumberyard equipment, logging cableway
simple skyline yarding																									simple skyline

equipment																									yarding equipment
other powered crane												1												1	other powered crane
truck					2	1		1		1		1							2	1	2	1		12	truck
forklift																									forklift
railway equipment																									railway equipment
conveyor																			1					1	conveyor
loader																									loader
straddle carrier																									straddle carrier
rough terrain hauler	1					1					1					1					1	1		6	rough terrain hauler
other powered conveying machines	2	1	2	2	4	2	2	3	2	3	1	3	1		1	1								30	other powered conveying machines
cars, bus, motorcycle				1				3			1	1												6	cars, bus, motorcycle
railway vehicle																									railway vehicle
other vehicles																									other vehicles
boiler																									boiler
pressure vessel																									pressure vessel
other pressure vessels																									other pressure vessels
chemical facilities																									chemical facilities
gas welding equipment																									gas welding equipment
arc welding equipment																									arc welding equipment

other welding equipment																									other welding equipment
kiln, caldron																									kiln, caldron
industrial dryer																									industrial dryer
other kiln, caldron																									other kiln, caldron
transmission																		1						1	transmission
electric power facilities																									electric power facilities
other electrical equipment																									other electrical equipment
human power cranes																									human power cranes
human power hauling equipment																									human power hauling equipment
human power machine																									human power machine
hand tool																									hand tool
ladder											1										1			2	ladder
slinging tool					1																			1	slinging tool
other tools					1	2	1		1		1			1				1	1					9	other tools
other equipment, facilities	1																							1	other equipment, facilities
scaffolding																									scaffolding
timbering																									timbering
stairs, landing stage																									stairs, landing stage

opening																									opening
roof, beam, haze, crossbeam, principal rafter																									roof, beam, haze, crossbeam, principal rafter
working platform, boot board									1															1	working platform, boot board
passage																									passage
building, establishment					1							1												2	building, establishment
other temporary buildings, establishments																									other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance																									inflammable substance
inflammable gas																									inflammable gas
harmful substance																									harmful substance
radiation																									radiation
other hazards, harmful substances																									other hazards, harmful substances
metal material																									metal material
lumber, bamboo	1	3	2	3					2	1		2			1		1			2	1			19	lumber, bamboo
stone, sand, substance																									stone, sand, substance
other materials																									other materials

load		1					1		1															3	load
machine/equipment as load									1															1	machine/equipment as load
natural ground, rock	4	3	2	2	5	1	1		3	2	3	4	3	3	4	1	3	5	1	1	1	2	2	56	natural ground, rock
standing tree	39	29	22	23	24	20	22	27	29	21	14	24	16	16	17	26	20	17	21	18	14	15	16	490	standing tree
water													5											5	water
abnormal environment																									abnormal environment
high/cold temperature environment								1						1				1						3	high/cold temperature environment
other environments				1			1	2	1		1				1						1		1	9	other environments
other causal agent																									other causal agent
no causal agent																									no causal agent
unclassifiable	1				1								1				1						1	5	unclassifiable
total	55	44	34	38	42	30	33	43	45	30	28	39	29	22	27	32	30	30	33	27	24	26	21	762	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				1								4	19 years old or less
20-29	1	1			1	1	1		1	2			1			3	3	1		1	5		3	25	20-29
30-39	2	1	1		1	2		3	4	3	3		2		2	6	4	4	4		3	2	3	50	30-39
40-49	8	3	7	2	7	2	3	5	3	1	3	2	4		1	4	3	3	6	3	4	2	3	79	40-49

50-59	12	10	5	12	4	10	6	13	20	3	7	13	10	6	10	7	8	8	4	3	4	4	1	180	50-59
60 years old or more	31	29	21	24	29	15	22	22	17	21	15	23	12	16	14	11	12	14	19	20	8	18	11	424	60 years old or more
total	55	44	34	38	42	30	33	43	45	30	28	39	29	22	27	32	30	30	33	27	24	26	21	762	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	38	21	21	23	29	20	20	28	26	16	14	24	18	15	17	15	16	18	20	15	12	19	12	457	9 workers or less
10-29	13	13	7	11	12	9	8	9	14	10	6	9	9	6	4	8	9	8	10	8	9	6	4	202	10-29
30-49	3	5	5	3	1	1	1	3	3	1	5	4			5	3	3	2	1	3	3		1	56	30-49
50-99	1	5		1			2	1	2	1	2	1	2	1	1	5	1	2	2	1		1	4	36	50-99
100-299			1				2	2		2	1	1				1	1							11	100-299
300 workers or more																									300 workers or more
total	55	44	34	38	42	30	33	43	45	30	28	39	29	22	27	32	30	30	33	27	24	26	21	762	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	3	4	7	3	1		5	6	1	1	4		2	1	7	5	2	1	4	5		2		64	January
February	4	5		5	7	3	7	2	2	2	6	4	3	2	1	3	4	1	1	3	3	4	5	77	February
March	7	2		2	5	4		5	4	5	2	4	6	3	3	1		5	4	2	1	3	1	69	March
April	4	5	6	2	2	1	5	2	5	3		4	2	2	1	3	2	1	4		6	4	2	66	April
May	5	3	2	1	1	2	3	2	9	1	1	6	1	1	1	1		2		1	3	2	1	49	May
June	4	3	2	1	4	1	2	4	2	3	2	2		3	2	5	1	3	3	1		2	2	52	June

July	2	6	3	2	7	2		6	5	1	3	4	4	1		3	2	1	4	2	3	1	4	66	July
August	5	3	1	7	2	2	3	3	3	1	2	2	2	3	1		2	1	2	3	1		1	50	August
September	5	4	3	1	5	3	3	3	2	3	2		1	2	1	3	7	2	3	4	4	3	1	65	September
October	3	5	4	7	4	5	3	5	2	4	1	6	2	2	3	2	3	3	3	2	1	1	2	73	October
November	7	3	4	3	3	2	1	2	4	4	3	5	3		4	5	5	5	4	3		2	1	73	November
December	6	1	2	4	1	5	1	3	6	2	2	2	3	2	3	1	2	5	1	1	2	2	1	58	December
total	55	44	34	38	42	30	33	43	45	30	28	39	29	22	27	32	30	30	33	27	24	26	21	762	total

Prefecture of fatal accidents in lumbering 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	4	3	6	6	6	4	9	3	5	5	1	10	2	3	1	4	1	4	3	6	3	1	1	91	Hokkaido
Aomori	2	1	1	1		2	1	2	1			1	1						3		1	1	2	20	Aomori
Iwate	4	1	3	1	1	2		4	3	2	4	4	5	1	2		3	3	4	2		2	4	55	Iwate
Miyagi	1	2				1			1				1			1		1		1	1	2		12	Miyagi
Akita	2	3		7	4		2	2	3	1	1			2	3		3	1	1	3		3	1	42	Akita
Yamagata								2						1			3			1	1			8	Yamagata
Fukushima	2	1	2			2	1	1			1	1		1	2	2		1		1	1	1		20	Fukushima
Ibaraki				2			1	1				1							1					6	Ibaraki
Tochigi	2			3	3					1	1						2							12	Tochigi
Gunma			1	1		1	1		1			2								1		1		9	Gunma
Saitama		1		1										1	1				1	1		1		7	Saitama
Chiba				1		1			1															3	Chiba
Tokyo	1				1				1							1		1						5	Tokyo

Kanagawa																									Kanagawa
Niigata		2									1		2	1				1			2			9	Niigata
Toyama	1				1					1												1		4	Toyama
Ishikawa		1	1	1								1											1	5	Ishikawa
Fukui	1	1							1	2	1		1	1	1				1	2				12	Fukui
Yamanashi				1			1	1						1			2	1						7	Yamanashi
Nagano	3	4	1		1	2		2		2	1	1	1		1	1		1	1	1		1		24	Nagano
Gifu	1	1	1		2	1						2					2		3		1	1		15	Gifu
Shizuoka	2	1	4	1	2	1	2	2	2							1				1	1	1	1	22	Shizuoka
Aichi			1				1			1			1		1		1	1	1					8	Aichi
Mie	3	1	2	1	2	1	1	2	1	3	1				1			3	1	1	1			25	Mie
Shiga		1											1											2	Shiga
Kyoto	1				1			1	1			1			1	1		1					1	9	Kyoto
Osaka							1																	1	Osaka
Hyogo	1	1	1	1				1	1	1		1	1		1	1								11	Hyogo
Nara	5		1	1	2	1		2	4	1	1	1	1				1		1	1		1		24	Nara
Wakayama	2	1	1	1	1	1		2	1		1	1				2		1				1	1	17	Wakayama
Tottori		1				1		1					2			1	2					1		9	Tottori
Shimane	1	1		1	2			1	1		1	1	1			1			1		1			13	Shimane
Okayama	1	2	3	1		1	2	1	1	1				1			1	1		1	1			18	Okayama
Hiroshima	3					1	2								1									7	Hiroshima
Yamaguchi		2					1	2									1					1		7	Yamaguchi
Tokushima		1				1		1	1		2	3	2			1			1					13	Tokushima
Kagawa																									Kagawa

Ehime		1	1	1	2	1		1	1		2			1					1					12	Ehime
Kochi	3		1	1	3	2		1	4		2	1	1	1	1	4			2	1		1	1	30	Kochi
Fukuoka						1	1		1			1		1		2			1			1		9	Fukuoka
Saga								1		1	2	1				1								6	Saga
Nagasaki			1		1								1											3	Nagasaki
Kumamoto	4	2	1		1	1			2	1	1	1	2	2	1	3	1	1			2		3	29	Kumamoto
Oita	2	2		1	1		2	3	1	2			1	2			1	1		1	2	1		23	Oita
Miyazaki	2	2	1	2	4		3	2	4	3	3	4	1		6	4	3	3	5	1	5	1	2	61	Miyazaki
Kagoshima	1	4		1	1	1	1	1	2	2	1		1	2	3	1	3	4	1	1	1	2	3	37	Kagoshima
Okinawa																									Okinawa
total	55	44	34	38	42	30	33	43	45	30	28	39	29	22	27	32	30	30	33	27	24	26	21	762	total

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

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