

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

forestry industry Code No.0602

Type of accidents in forestry 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	301	281	267	255	264	247	213	216	219	214	209	197	190	182	166	156	176	157	142	174	135	115	156	4,632	fall from height
falling to same level	467	433	420	347	421	321	271	264	228	248	250	245	242	205	190	173	193	172	132	160	136	132	139	5,789	falling to same level
crash	84	78	70	64	64	52	62	53	50	45	37	40	43	38	45	35	28	31	41	39	34	40	30	1,103	crash
struck by flying or falling object	437	447	441	434	410	432	361	334	340	319	398	351	327	301	279	259	256	259	217	224	178	185	170	7,359	struck by flying or falling object
collapse	112	95	93	105	110	103	85	71	84	81	93	107	72	64	61	55	73	76	49	45	40	39	34	1,747	collapse
crashed by	525	501	528	528	470	476	487	456	477	456	443	525	505	426	345	356	344	347	282	287	305	326	284	9,679	crashed by
caught in/between	185	155	147	122	135	126	115	116	107	105	89	120	110	89	115	77	69	84	67	85	62	72	73	2,425	caught in/between
cut	888	898	831	795	835	779	652	585	672	663	656	626	598	468	399	393	364	316	295	237	254	233	239	12,676	cut
injury to the sole of the foot	8	8	4	4	7	11	5	1	6	4	6	10	2	6	6	1	5	7	4		11	6	7	129	injury to the sole of the foot
drown							1						1						1				1	4	drown
contact to high/low-temperature	7	10	8	5	9	7	4	5	6	13	5	10	10	12	9	12	13	18	9	7	9	9	8	205	contact to high/low-temperature
contact to harmful		7	3		2	2	6		1	1	1	1	2		1	1	4	3	1	2	1	5	3	47	contact to harmful

substance																									substance
electric shock	1		1		1		2	1		1							3			1				11	electric shock
explosion	1	1																				1	3	explosion	
burst																									burst
fire	2	1	1	1		1	2		1		3	1			1		1	1	1			1		18	fire
traffic accident (public road)	32	17	13	17	25	23	16	16	17	5	11	29	17	28	8	9	14	10	9	7	16	16	18	373	traffic accident (public road)
traffic accident (others)	1	1								2				3										7	traffic accident (others)
reaction to motion/improper motion	98	82	89	86	72	77	57	52	68	69	62	65	72	48	65	59	58	59	50	48	48	63	54	1,501	reaction to motion/improper motion
others	39	62	48	32	43	36	24	19	22	28	42	34	31	26	33	24	19	16	14	27	17	32	16	684	others
unclassifiable	3	6	10	4	6	3	2	1	2	3	1	2	2	1		1	2	2			1	1	2	55	unclassifiable
total	3,191	3,083	2,974	2,799	2,874	2,696	2,365	2,190	2,300	2,257	2,306	2,363	2,224	1,897	1,723	1,611	1,619	1,561	1,314	1,342	1,248	1,275	1,235	48,447	total

Causal agents (large) of fatal and non-fatal accidents in forestry 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	865	838	808	800	827	781	683	610	697	700	683	672	625	530	453	436	462	445	361	343	361	364	351	13,695	machine
crane, conveying machine	229	199	168	162	167	166	166	153	145	141	131	147	119	148	113	119	83	78	63	78	55	50	58	2,938	crane, conveying machine
other equipment	287	262	262	229	244	190	179	162	131	125	104	130	131	101	89	65	63	75	57	73	54	60	50	3,123	other

																									equipment
temporary buildings, establishments	104	101	91	73	102	94	62	98	77	65	60	64	59	52	40	56	44	49	33	63	40	42	60	1,529	temporary buildings, establishments
substance, material	256	230	190	209	162	183	191	159	162	111	112	135	138	117	128	97	91	98	66	88	65	77	64	3,129	substance, material
load	11	8	9	12	8	4	7	6	3	7	3	7	5	8	10	6	4	5	5	11	5	3	2	149	load
environment	1,381	1,383	1,380	1,264	1,319	1,231	1,043	976	1,043	1,074	1,162	1,176	1,099	917	853	800	845	783	699	656	642	644	622	22,992	environment
others	58	62	66	50	45	47	34	26	42	34	51	32	48	24	37	32	27	28	30	30	26	35	28	892	others
total	3,191	3,083	2,974	2,799	2,874	2,696	2,365	2,190	2,300	2,257	2,306	2,363	2,224	1,897	1,723	1,611	1,619	1,561	1,314	1,342	1,248	1,275	1,235	48,447	total

Causal agents (middle) of fatal and non-fatal accidents in forestry 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	2	1	1		1				1	1	1		1		1			4					1		15	power transmission mechanism
woodworking machine	601	620	597	551	581	577	507	456	547	544	528	530	493	395	339	335	322	269	240	217	218	200	205	9,872	woodworking machine	
construction machine	44	21	28	31	36	33	32	34	25	31	31	25	39	32	35	26	18	24	11	17	22	11	20	626	construction machine	
metal manufacturing machine	11	4	3	3	3		1	2	4	2	1	3	1	1		1				2		1	1	44	metal manufacturing machine	

general machine	206	191	179	215	206	171	143	118	120	121	122	114	90	102	77	74	52	72	61	50	61	65	66	2,676	general machine	
mobile silviculture machine																	69	76	49	57	60	86	59	456	mobile silviculture machine	
crane	88	85	76	55	62	58	75	58	43	56	45	59	35	42	35	39	28	27	19	19	12	15	18	1,049	crane	
conveying machine	127	97	82	90	81	85	76	80	87	71	72	56	73	78	67	74	42	41	40	52	28	21	27	1,547	conveying machine	
vehicle	14	17	10	17	24	23	15	15	15	14	14	32	11	28	11	6	13	10	4	7	15	14	13	342	vehicle	
pressure vessel																	1	1						2	pressure vessel	
chemical facilities																										chemical facilities
welding equipment												1												1	welding equipment	
kiln, caldron																		1				1		2	kiln, caldron	
electric equipment	1				1		1	1		1								2						7	electric equipment	
human power machine, tools	196	179	164	137	152	116	104	84	74	65	59	77	84	53	38	30	29	35	29	31	24	22	28	1,810	human power machine, tools	
tools	86	77	90	89	90	72	73	75	51	55	42	50	45	45	48	32	31	32	28	37	28	35	21	1,232	tools	
other equipments, facilities	4	6	8	3	1	2	1	2	6	4	3	2	2	3	3	3	2	4		5	2	2	1	69	other equipments, facilities	
temporary buildings, establishments	104	101	91	73	102	94	62	98	77	65	60	64	59	52	40	56	44	49	33	63	40	42	60	1,529	temporary buildings, establishments	

hazards, harmful substances	3	12	3	1	4	1	3		2	2	1	3	2	2		1	1	2	1		1	1	4	50	hazards, harmful substances
materials	253	218	187	208	158	182	188	159	160	109	111	132	136	115	128	96	90	96	65	88	64	76	60	3,079	materials
load	11	8	9	12	8	4	7	6	3	7	3	7	5	8	10	6	4	5	5	11	5	3	2	149	load
natural environment	1,381	1,383	1,380	1,264	1,319	1,231	1,043	976	1,043	1,074	1,162	1,176	1,099	917	853	800	845	783	699	656	642	644	622	22,992	natural environment
other causal agent	20	25	23	14	21	14	6	4	17	10	17	9	16	8	17	14	10	7	9	10	4	11	4	290	other causal agent
no causal agent	34	29	29	31	16	23	24	20	24	23	31	21	28	16	19	16	15	18	21	20	22	24	22	526	no causal agent
unclassifiable	4	8	14	5	8	10	4	2	1	1	3	2	4		1	2	2	3				2	76	unclassifiable	
total	3,191	3,083	2,974	2,799	2,874	2,696	2,365	2,190	2,300	2,257	2,306	2,363	2,224	1,897	1,723	1,611	1,619	1,561	1,314	1,342	1,248	1,275	1,235	48,447	total

Causal agents (small) of fatal and non-fatal accidents in forestry 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	1		1		1			4				1		12	power transmission mechanism
circular sawing machine			20		8		4	1	5	5	3	4	6	4	4	1			4	3	3		3	78	circular sawing machine
band sawing machine			1		1					1	1		1				1			1	1			8	band sawing machine
wood planer machine					1		2	3			1								1				2	10	wood planer machine



buffing machine						1							1							2		1		6	buffing machine	
power press																										power press
forging pressure hammer																										forging pressure hammer
shearing machine																										shearing machine
other metal manufacturing machines			3		3			2	4	2	1	3												1	19	other metal manufacturing machines
centrifugal machine																										centrifugal machine
mixer, grinder					1			1										1						1	4	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																					1				1	industrial robot
other general power machines			179		205		143	117	120	121	122	114	90	102	76	74	52	71	61	48	61	65	65	1,886	other general power machines	
felling machine																	32	40	27	23	27	56	30	235	felling machine	
mobile logging machine																	23	19	13	21	17	17	10	120	mobile logging machine	
skyline yarding																	12	13	7	11	15	10	15	83	skyline yarding	

machine																								machine	
other mobile silviculture machine																2	4	2	2	1	3	4	18	other mobile silviculture machine	
crane			1		1		1	1	1	1		1				1			1			1	10	crane	
mobile crane			15		12		16	13	9	10	8	14	5	7	9	8	5	4	11	2	4	4	5	161	mobile crane
derrick crane																								derrick crane	
elevator, lift																								elevator, lift	
cargo lifting appliance																								cargo lifting appliance	
gondola																								gondola	
lumberyard equipment, logging cableway			55		43		47	37	30	33	30	33	22	27	20	26	17	19	8	12	6	9	9	483	lumberyard equipment, logging cableway
simple skyline yarding equipment																	2	1				2	2	7	simple skyline yarding equipment
other powered crane			5		6		11	7	3	12	7	11	8	8	6	5	3	3		4	2		1	102	other powered crane
truck			41		43		39	36	46	27	34	21	33	32	27	27	28	23	30	35	16	17	23	578	truck
forklift			4		1		2	1	2	1	2	1		1	1	1		3	2	1	1		1	25	forklift
railway equipment					2															2				4	railway equipment
conveyor			2				1		1	1	1		1		2	2	2	3	1	2	1	1	1	22	conveyor
loader			2					1		1	1	1							1		1			8	loader
straddle carrier																									straddle carrier
rough terrain hauler					3		1		2	3		2		3	2	2	2	3	1	1	4	1	1	31	rough terrain hauler
other powered			33		32		33	42	36	38	34	31	39	42	35	42	10	9	5	11	5	2	1	480	other powered



conveying machines																								conveying machines	
cars, bus, motorcycle			10		24		15	15	14	12	12	31	11	27	11	5	13	10	4	7	15	13	13	262	cars, bus, motorcycle
railway vehicle																									railway vehicle
other vehicles								1	2	2	1		1		1							1		9	other vehicles
boiler																									boiler
pressure vessel																1	1							2	pressure vessel
other pressure vessels																									other pressure vessels
chemical facilities																									chemical facilities
gas welding equipment												1												1	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																	1							1	other kiln, caldron
transmission					1		1	1		1							2							6	transmission
electric power facilities																									electric power facilities
other electrical equipment																									other electrical equipment
human power					1		1	1	1		2		2			1	1	1	1	3		1	3	19	human power

cranes																									cranes
human power hauling equipment											1	3	1					1					2	8	human power hauling equipment
human power machine			4			2	1	5	2		2	1		1		2	2	2				2	26	human power machine	
hand tool			160		151		101	82	68	63	56	72	80	53	37	29	26	31	26	28	24	21	21	1,129	hand tool
ladder			48		47		36	43	26	30	23	26	24	32	22	15	13	16	14	25	12	9	17	478	ladder
slinging tool			4		11		6	8	3	5	6	2	2	4	3	3	4	2	3	2	1	5	1	75	slinging tool
other tools			38		32		31	24	22	20	13	22	19	9	23	14	14	14	11	10	15	21	3	355	other tools
other equipment, facilities			8		1		1	2	6	4	3	2	2	3	3	3	2	4		5	2	2	1	54	other equipment, facilities
scaffolding			3				2		1				1		2			1	2	2	1			15	scaffolding
timbering			1										1											2	timbering
stairs, landing stage			5		4		1	4	3	3		2	1	4					2	2	2	3	2	38	stairs, landing stage
opening					1									1				1		1				4	opening
roof, beam, haze, crossbeam, principal rafter			3		2		1	3		1	1	1	1	2	1	2	2	2	1		1		1	25	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			25		34		8	27	18	18	15	22	13	9	15	18	10	7	3	19	14	6	6	287	working platform, boot board
passage			44		44		38	49	44	30	38	34	38	27	20	23	24	30	24	26	17	23	40	613	passage
building, establishment			5		9		6	7	10	9	4	3	3	6	4	3	5	6	2	8	2	4	10	106	building, establishment
other temporary buildings, establishments			5		8		8	6	2	3	2	2	2	2		8	3	3		5	2	5	1	67	other temporary buildings, establishments

explosive substance																								explosive substance
inflammable substance				2				1	2	1	2		1		1	1	1	1			1	1	15	inflammable substance
inflammable gas																								inflammable gas
harmful substance			3				1					1					1					1	7	harmful substance
radiation																								radiation
other hazards, harmful substances				2		2		1			1	1	1							1		2	11	other hazards, harmful substances
metal material			11	10	9	8	13	5	10	6	9	9	7	2	5	9	2	1	3	4	5	128	metal material	
lumber, bamboo			162	142	167	142	138	102	97	114	116	97	112	86	81	85	59	78	54	63	52	1,947	lumber, bamboo	
stone, sand, substance			12	4		11	8	4	2	4	11	11	7	8	8	2	1	4	7	7	9	2	122	stone, sand, substance
other materials			2	2		1	1	5			1		2	1		2	1		2			1	21	other materials
load			8	7		6	6	2	6	3	5	4	7	10	6	4	4	4	11	4	3	2	102	load
machine/equipment as load			1	1		1		1	1		2	1	1				1	1		1			12	machine/equipment as load
natural ground, rock			320	335		197	213	192	245	232	210	205	181	167	152	183	148	144	139	134	117	137	3,651	natural ground, rock
standing tree			983	893		787	710	800	768	864	892	835	671	628	600	612	579	504	473	470	469	439	12,977	standing tree
water				2		1	1	2		1		6			2		1	1				1	18	water
abnormal environment				1				1				1										1	4	abnormal environment
high/cold temperature environment			9	6		4	6	4	4	2	6	7	9	8	9	7	14	7	5	7	7	7	128	high/cold temperature environment

other environments			68		82		54	46	44	57	63	68	45	56	50	39	41	42	43	38	31	51	37	955	other environments
other causal agent			23		21		6	4	17	10	17	9	16	8	17	14	10	7	9	10	4	11	4	217	other causal agent
no causal agent			29		16		24	20	24	23	31	21	28	16	19	16	15	18	21	20	22	24	22	409	no causal agent
unclassifiable			14		8		4	2	1	1	3	2	4		1	2	2	3					2	49	unclassifiable
total			2,974		2,874		2,365	2,190	2,300	2,257	2,306	2,363	2,224	1,897	1,723	1,611	1,619	1,561	1,314	1,342	1,248	1,275	1,235	36,678	total

#### Workers age of fatal and non-fatal accidents in forestry 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	34	43	54	29	33	30	21	19	16	17	26	28	22	16	17	25	17	20	27	18	19	14	585	19 years old or less
20-29	239	252	280	274	271	268	220	204	227	240	259	279	233	197	178	149	167	153	116	142	128	133	147	4,756	20-29
30-39	283	299	290	274	380	345	334	312	322	385	389	387	359	339	317	292	299	313	243	257	239	212	219	7,089	30-39
40-49	412	387	396	370	373	364	335	299	318	312	347	352	380	339	314	275	306	298	263	258	260	264	271	7,493	40-49
50-59	703	633	621	577	664	644	570	545	611	528	535	550	506	414	375	334	322	302	264	229	231	257	229	10,644	50-59
60 years old or more	1,514	1,478	1,344	1,250	1,157	1,042	876	809	803	776	759	769	718	586	523	544	500	478	408	429	372	390	355	17,880	60 years old or more
total	3,191	3,083	2,974	2,799	2,874	2,696	2,365	2,190	2,300	2,257	2,306	2,363	2,224	1,897	1,723	1,611	1,619	1,561	1,314	1,342	1,248	1,275	1,235	48,447	total

#### Workers' number of workplace of fatal and non-fatal accidents in forestry 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	1,698	1,651	1,574	1,399	1,409	1,369	1,261	1,187	1,219	1,196	1,177	1,158	1,079	920	863	821	764	758	672	663	632	617	591	24,678	9 workers or less
10-29	725	699	680	692	725	632	542	491	573	566	590	595	593	528	490	451	472	486	395	404	361	399	391	12,480	10-29
30-49	389	350	361	354	395	358	306	291	267	265	280	317	277	206	190	199	223	170	152	170	160	166	147	5,993	30-49







total	3,191	3,083	2,974	2,874	2,365	2,190	2,300	2,257	2,306	2,363	2,224	1,897	1,723	1,611	1,619	1,561	1,314	1,342	1,248	1,275	1,235	42,952	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](https://www.jisha.or.jp/english/statistics/2021e_industry.html)

=====  
 Fatal accidents in forestry in Japan in 1999-2021

forestry industry Code No.0602

Type of fatal accidents in forestry 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	12	6	11	5	14	7	4	7	12	9	13	12	6	8	10	4	10	8	3	6	7	9	5	188	fall from height
falling to same level	2	1	1	1	2		1	2		1	2	1			2		1	2	1	2	1	1	2	26	falling to same level
crash	2											1	2				1					1		7	crash
struck by flying or falling object	10	9	13	4	7	5	6	4	5	6	8	6	5	6	7	7	6		4	5	3	2	4	132	struck by flying or falling object
collapse	9	8	7	8	11	5	7	11	8	6	3	11	4	4	2	6	9	3	6	4	4	5	1	142	collapse
crashed by	28	22	15	21	13	22	25	21	22	16	14	19	14	13	10	23	9	24	21	12	14	14	15	407	crashed by
caught in/between	2	3	1	2	2	2	1	4	2	2	2	2	3	2	3	2		2	4	1	1	3	1	47	caught in/between
cut	1	4	2	4	3	2	1	1		2		3		1	2							1		27	cut





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	5	7	4	5	4	2	4	4	3	4	2	4	3	2	4		5	6	5	5	4	8	2	92	machine
crane, conveying machine	9	7	9	10	9	9	7	12	3	6	6	8	4	4	3	6		4	5	1	6	3		131	crane, conveying machine
other equipment	2	1			3	2	1		1	1	2			1	1	1	2	2	1		1			22	other equipment
temporary buildings, establishments	1				1				1			1		1									1	6	temporary buildings, establishments
substance, material	1	3	2	3				1	2	1		2		1	1		1	1		2	1			22	substance, material
load		1					1		2				1											5	load
environment	51	34	38	31	41	33	34	40	38	31	33	43	33	28	30	35	29	28	29	23	21	25	26	754	environment
others	2		1		3							1	2				1						1	11	others
total	71	53	54	49	61	46	47	57	50	43	43	59	43	37	39	42	38	41	40	31	33	36	30	1,043	total

Causal agents (middle) of fatal accidents in forestry 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																										engine
power transmission mechanism																										power transmission mechanism
woodworking machine			2	1	1	2						1		1	1		1					1		11	woodworking machine	
construction machine	4	2	1	1	1		2	1	2	2	1		3	1	2			1		2	1	1		28	construction machine	

metal manufacturing machine																										metal manufacturing machine	
general machine	1	5	1	3	2		2	3	1	2	1	3			1											25	general machine
mobile silviculture machine																	4	5	5	3	3	6	2		28	mobile silviculture machine	
crane	4	6	5	6	2	3	4	5	1	1	3	3	1	1	2	3		1	2			1			54	crane	
conveying machine	5	1	3	2	6	4	3	4	2	5	2	4	3	2	1	3		2	3	1	3	2			61	conveying machine	
vehicle			1	2	1	2		3			1	1		1				1			3				16	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										1																1	human power machine, tools
tools	1	1			3	2	1		1		2			1	1	1	2	1	1		1					19	tools
other equipments, facilities	1																									1	other equipments, facilities
temporary buildings, establishments	1				1				1				1	1									1		6	temporary buildings, establishments	
hazards, harmful substances																											hazards, harmful substances

																									substances
materials	1	3	2	3				1	2	1		2		1	1		1	1		2	1			22	materials
load		1					1		2				1											5	load
natural environment	51	34	38	31	41	33	34	40	38	31	33	43	33	28	30	35	29	28	29	23	21	25	26	754	natural environment
other causal agent	1				2							1	1											5	other causal agent
no causal agent			1																					1	no causal agent
unclassifiable	1				1								1				1						1	5	unclassifiable
total	71	53	54	49	61	46	47	57	50	43	43	59	43	37	39	42	38	41	40	31	33	36	30	1,043	total

Causal agents (small) of fatal accidents in forestry 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

chamfering machine, router, woodworking milling machine																								machine, router, woodworking milling machine		
chain saw			1		1	1						1		1								1		7	chain saw	
other woodworking machines			1	1		1								1										4	other woodworking machines	
leveling, transporting or loading machine	4	2	1	1	1				1	1	1													15	leveling, transporting or loading machine	
excavating machine								1		1	1	1												5	excavating machine	
foundation work machine																										foundation work machine
hardening machine																									1	hardening machine
demolition machine																									3	demolition machine
vehicle for high lift work																										vehicle for high lift work
other construction machines								1																	4	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





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	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																						1	human power machine





harmful substance																									harmful substance
radiation																									radiation
other hazards, harmful substances																									other hazards, harmful substances
metal material																									metal material
lumber, bamboo	1	3	2	3				1	2	1		2		1	1		1	1		2	1			22	lumber, bamboo
stone, sand, substance																									stone, sand, substance
other materials																									other materials
load		1					1		1				1											4	load
machine/equipment as load									1															1	machine/equipment as load
natural ground, rock	5	5	5	3	8	3	2	3	5	3	6	7	3	4	6	1	4	5	1	3	1	3	3	89	natural ground, rock
standing tree	44	29	30	26	29	28	30	34	32	28	24	35	23	22	20	34	24	22	28	20	19	22	21	624	standing tree
water							1						5										1	7	water
abnormal environment																									abnormal environment
high/cold temperature environment	2		2		1			1				1	2	2	1			1						13	high/cold temperature environment
other environments			1	2	3	2	1	2	1		3				3		1				1		1	21	other environments
other causal agent	1				2							1	1											5	other causal agent
no causal agent			1																					1	no causal agent
unclassifiable	1				1								1				1						1	5	unclassifiable

total	71	53	54	49	61	46	47	57	50	43	43	59	43	37	39	42	38	41	40	31	33	36	30	1,043	total
-------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-------	-------

Workers age of fatal accidents in forestry 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	2						1					1				1								5	19 years old or less
20-29	2	1			1	1	1		1	2		2	1		1	3	3	3		1	5		3	31	20-29
30-39	2	1	1		1	2	1	3	4	3	5		5	1	3	7	5	5	4		4	3	3	63	30-39
40-49	9	3	8	3	12	2	4	7	4	2	6	3	5		3	4	4	5	6	3	7	3	7	110	40-49
50-59	15	10	11	14	9	17	9	14	20	6	10	17	14	7	12	10	8	9	6	4	7	7	2	238	50-59
60 years old or more	41	38	34	32	38	24	31	33	21	30	22	36	18	29	20	17	18	19	24	23	10	23	15	596	60 years old or more
total	71	53	54	49	61	46	47	57	50	43	43	59	43	37	39	42	38	41	40	31	33	36	30	1,043	total

Workers' number of workplace of fatal accidents in forestry 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	42	24	31	31	36	26	27	37	29	23	21	36	26	22	23	20	21	23	26	17	17	26	17	601	9 workers or less	
10-29	20	15	11	13	21	13	12	13	15	15	12	11	13	10	8	10	12	10	11	9	11	9	6	280	10-29	
30-49	4	8	8	3	4	4	3	3	4	2	7	8	1	2	6	5	3	6	1	4	5		3	94	30-49	
50-99	4	6	2	2		3	3	2	2	1	2	2	2	2	2	6	1	2	2	1		1	4	52	50-99	
100-299	1		2				2	2		2	1	2	1	1		1	1							16	100-299	
300 workers or more																										300 workers or more
total	71	53	54	49	61	46	47	57	50	43	43	59	43	37	39	42	38	41	40	31	33	36	30	1,043	total	

Month of fatal accidents in forestry 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	10	3	4		5	6	3	4	5	3	3	3	7	7	4	1	6	7		3	1	92	January
February	5	5	2	6	8	3	11	3	3	3	9	5	4	3	1	3	4	3	1	3	3	4	6	98	February
March	9	2	2	3	6	5	2	8	5	5	5	8	9	4	3	3		6	5	3	1	4	2	100	March
April	7	5	6	3	3	1	5	3	5	5		5	2	3	2	3	4	1	4		8	5	3	83	April
May	8	5	2	3	2	2	4	2	9	3	2	6	3	2	3	1	1	2	1	1	4	4	1	71	May
June	5	3	4	5	5	3	4	5	3	3	3	3	2	3	3	6	1	3	4	1	2	2	2	75	June
July	5	9	8	2	11	4	1	7	5	1	4	5	4	2	3	4	3	2	4	2	6	2	5	99	July
August	6	6	1	8	7	4	5	5	3	3	3	6	4	4	2		2	3	2	3	1		1	79	August
September	5	4	5	1	6	6	4	5	2	3	2	2	1	5	4	4	8	3	3	5	4	4	2	88	September
October	3	6	6	8	5	6	3	5	2	5	3	8	2	3	4	2	4	3	3	2	1	2	4	90	October
November	8	3	4	3	3	4	1	3	4	5	5	6	6	2	4	7	5	9	5	3		2	1	93	November
December	7	1	4	4	1	8	2	5	6	3	2	2	3	3	3	2	2	5	2	1	3	4	2	75	December
total	71	53	54	49	61	46	47	57	50	43	43	59	43	37	39	42	38	41	40	31	33	36	30	1,043	total

Prefecture of fatal accidents in forestry 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	8	5	6	7	7	5	11	6	5	8	1	11	5	4	4	4	4	5	5	6	8	4	1	130	Hokkaido
Aomori	2	1	1	1		2	1	2	1	1		1	1						3		2	1	2	22	Aomori
Iwate	5	2	4	1	1	4		4	3	2	4	4	5	1	3		3	3	4	2		4	5	64	Iwate
Miyagi	1	2				1			1		1		1			1		1		1	1	2		13	Miyagi
Akita	3	3		7	4		3	2	3	1	1			3	3		3	1	1	3		3	1	45	Akita
Yamagata								2		1				1			3			1	1			9	Yamagata

Fukushima	2	1	2	1		2	1	1		1	2	1		1	3	2	1	1		1	1	1	2	27	Fukushima
Ibaraki				3			2	1				1							1					8	Ibaraki
Tochigi	2		1	3	3	1				1	1						2							14	Tochigi
Gunma			1	1		2	1		1		1	3		2				1	1	2		1		17	Gunma
Saitama		1	1	1							1	1		1	1				1	1		1		10	Saitama
Chiba	1			1		1			1															4	Chiba
Tokyo	1	1	1		1				1			2				1		1						9	Tokyo
Kanagawa			1		1					1	2							1						6	Kanagawa
Niigata		2	1								1	1	2	1				1			3			12	Niigata
Toyama	1				1	1		1		1				1								1		7	Toyama
Ishikawa	1	1	2	1	1		2			1		3				1	1			1			1	16	Ishikawa
Fukui	2	1						1	1	2	1		1	1	2				1	2			1	16	Fukui
Yamanashi		1		2	2		1	1					1	1		1	2	1						13	Yamanashi
Nagano	4	4	2		3	2		4		3	1	3	1	1	4	1		1	1	1	1	1	1	38	Nagano
Gifu	1	1	1	1	3	1	1	1			2	2					2	1	3		1	1	1	23	Gifu
Shizuoka	2	1	4	3	2	1	2	3	2			1	3	1		2	1		1	2	1	1	1	34	Shizuoka
Aichi			1				1	1		1			1		1		1	1	3				1	12	Aichi
Mie	3	1	3	1	2	1	1	2	1	3	1	1		2	2			3	1	1	1			30	Mie
Shiga		1			1								1			2					1			6	Shiga
Kyoto	1				2	1		1	1		2	1		1	1	1	1	1					1	15	Kyoto
Osaka						1	1		1	1	1											1		6	Osaka
Hyogo	1	1	3	2		1		2	2	1		2	1		1	3				1		1		22	Hyogo
Nara	8		2	1	2	2		2	4	2	1	1	1				1		1	1		1		30	Nara
Wakayama	2	1	3	1	2	1		2	1		1	1				2		1				1	2	21	Wakayama

Tottori		1			1	1	1	1					2			1	2					1		11	Tottori
Shimane	1	3		2	2		1	1	1		2	3	2	1		1		1	1		1			23	Shimane
Okayama	2	3	4	1	1	2	4	1	1	1	1			2			2	1		1	1			28	Okayama
Hiroshima	3		2			2	2			1				1	1			1					1	14	Hiroshima
Yamaguchi		2	1	1		1	1	2					1				1						1	11	Yamaguchi
Tokushima	1	1			1	1		1	1		2	3	2			2			1					16	Tokushima
Kagawa							1									1								2	Kagawa
Ehime		1	1	1	2	1		2	2		2	2	2	3				2	1				1	23	Ehime
Kochi	3		1	1	3	4		1	4		3	1	1	1	1	4		1	3	1		3	1	37	Kochi
Fukuoka			1		1	1	1	1	1			1	1	1		3			1			2		15	Fukuoka
Saga								1	1	1	2	1	1			1								8	Saga
Nagasaki	1		1		1							2	1					1						7	Nagasaki
Kumamoto	4	2	2		1	1			2	2	1	1	2	2	2	3	1	1			2		3	32	Kumamoto
Oita	2	3		1	1		2	3	1	2	1		1	2			1	1		1	2	1		25	Oita
Miyazaki	2	2	1	3	6		3	3	5	3	3	4	2		6	4	3	3	5	1	5	1	2	67	Miyazaki
Kagoshima	1	4		1	3	1	2	1	2	2	1		1	3	3	1	3	5	1	1	1	2	3	42	Kagoshima
Okinawa						1	1					1												3	Okinawa
total	71	53	54	49	61	46	47	57	50	43	43	59	43	37	39	42	38	41	40	31	33	36	30	1,043	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](https://www.jisha.or.jp/english/statistics/2021e_industry.html)