other forestry industry Code No.060209

Type of accidents in other 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	124	120	126	120	114	125	92	86	85	89	90	90	85	71	65	63	64	61	55	65	55	46	52	1,943	fall from height
falling to same level	189	175	186	161	187	129	91	97	91	96	112	91	97	71	76	61	68	62	48	58	48	49	48	2,291	falling to same level
crash	31	34	26	25	23	15	22	29	24	19	15	17	17	17	18	12	8	9	16	13	8	17	12	427	crash
struck by flying or falling object	147	170	157	164	176	153	141	117	121	131	171	151	128	113	98	84	96	82	80	79	60	67	50	2,736	struck by flying or falling object
collapse	32	18	33	34	35	34	25	20	29	28	39	37	26	24	18	17	24	17	12	12	9	16	11	550	collapse
crashed by	124	136	165	166	156	156	146	100	149	144	157	168	178	139	107	95	95	96	68	76	76	97	81	2,875	crashed by
caught in/between	53	41	40	47	48	36	37	38	37	36	30	46	35	23	39	27	16	24	23	23	22	25	26	772	caught in/between
cut	417	423	437	414	407	381	300	249	294	270	319	287	246	201	159	151	137	114	112	83	99	86	91	5,677	cut
injury to the sole of the foot	4	2	3	3	2	6	2	1	4	1	4	2	1	2	3	1	1	5	1		4		2	54	injury to the sole of the foot
drown							1																1	2	drown
contact to high/low- temperature	3	4	6	2	5	3	4	4	3	3	1	6	7	6	5	5	6	8	7	3	2	3	5	101	contact to high/low- temperature

contact to harmful																									contact to
substance		7	2		1	1	3				1	1	1		1		3	1	1	1	1	2	3	30	harmful
substance																									substance
electric shock							1											1			1			3	electric shock
explosion		1																						1	explosion
burst																									burst
fire	2								1		2											1		6	fire
traffic accident	21		12		13	0	11	10	4			22		13	4		7		5	1	11		4	181	traffic accident
(public road)	21	6	12	6	13	8	11	10	4		2	22	8	13	4	4		5	5	<u> </u>	11	4	4		(public road)
traffic accident										2				3										5	traffic accident
(others)																									(others)
reaction to																									reaction to
motion/improper	41	38	44	46	34	33	24	25	27	24	28	30	39	18	22	30	29	21	23	20	27	26	18	667	motion/improper
motion																									motion
others	29	36	31	19	29	24	16	9	13	15	25	20	16	16	20	14	10	6	6	10	9	11	4	388	others
unclassifiable		3	6	3	3	2			2	1	1			1		1	1					1		25	unclassifiable
total	1,217	1,214	1,274	1,210	1,233	1,106	916	785	884	859	997	968	884	718	635	565	565	512	457	444	432	451	408	18,734	total

Causal agents (large) of fatal and non-fatal accidents in other 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	II.	Causal (L)
machine	366	375	404	401	385	360	293	243	288	293	326	306	247	222	174	161	164	155	133	115	139	133	126	5,809	machine
crane, conveying	69	45	52	40	47	45	55	42	38	30	39	52	41	42	27	36	24	22	18	20	20	13	18	835	crane,

machine																									machine
other equipment	168	145	143	130	132	118	101	90	74	57	48	74	68	51	49	34	27	31	30	40	28	26	17	1,681	other equipment
temporary buildings, establishments	43	41	50	35	50	45	27	42	37	32	33	27	20	24	21	25	15	16	10	24	15	17	23	672	temporary buildings, establishments
substance, material	70	80	56	72	63	62	59	47	44	29	40	45	52	47	40	27	31	28	25	24	18	21	18	998	substance, material
load	1	4	7	5	3		3	2		3		2	2	2	4	2	2	2	4	3	3	1	1	56	load
environment	471	495	526	498	525	450	360	306	382	404	483	442	427	320	305	262	287	251	224	206	195	223	199	8,241	environment
others	29	29	36	29	28	26	18	13	21	11	28	20	27	10	15	18	15	7	13	12	14	17	6	442	others
total	1,217	1,214	1,274	1,210	1,233	1,106	916	785	884	859	997	968	884	718	635	565	565	512	457	444	432	451	408	18,734	total

Causal agents (middle) of fatal and non-fatal accidents in other 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		Causal (M)
																									agents
engine																									engine
power transmission																									power
mechanism	1				1					1					1			2				1		7	transmission
mechanism																									mechanism
woodworking	204	220	272	226	220	220	104	157	202	204	221	222	100	144	118	112	108	83	00	75	74	70	69		woodworking
machine	204	228	273	236	230	230	184	157	203	204	231	222	188	144	110	112	108	63	88	/5	/4	70	09	3,731	machine
construction machine	7	7	6	12	11	7	9	11	11	11	9	9	13	10	9	10	11	12	3	5	12	2	7	204	construction

																									machine
metal manufacturing machine	5	4	3	2	2			1	3	1	1	2	1	1						1			1	28	metal manufacturing machine
general machine	149	136	122	151	141	123	100	74	71	76	85	73	45	67	46	39	30	44	36	24	35	38	36	1,741	general machine
mobile silviculture machine																	15	14	6	10	18	22	13	98	mobile silviculture machine
crane	13	10	7	5	10	11	18	9	8	7	13	8	9	6	4	9	5	7	3	3	2	2	4	173	crane
conveying machine	52	28	37	32	26	24	26	22	23	18	21	21	27	20	19	24	14	8	13	16	9	7	11	498	conveying machine
vehicle	4	7	8	3	11	10	11	11	7	5	5	23	5	16	4	3	5	7	2	1	9	4	3	164	vehicle
pressure vessel																									pressure vessel
chemical facilities																									chemical facilities
welding equipment												1												1	welding equipment
kiln, caldron																		1						1	kiln, caldron
electric equipment																		1						1	electric equipment
human power machine, tools	115	101	92	86	83	70	65	54	45	35	30	47	45	27	20	19	14	16	17	18	15	8	14	1,036	human power machine, tools
tools	50	40	48	41	48	47	36	35	27	22	16	26	21	21	27	13	12	11	13	19	12	16	3	604	tools
																									other

other equipments,	3	4	3	3	1	1		1	2		2		2	3	2	2	1	2		3	1	2		38	equipments,
facilities																									facilities
temporary buildings, establishments	43	41	50	35	50	45	27	42	37	32	33	27	20	24	21	25	15	16	10	24	15	17	23	672	temporary buildings, establishments
hazards, harmful substances	1	11	2		2	1	1					2	2			1					1	1	2	27	hazards, harmful substances
materials	69	69	54	72	61	61	58	47	44	29	40	43	50	47	40	26	31	28	25	24	17	20	16	971	materials
load	1	4	7	5	3		3	2		3		2	2	2	4	2	2	2	4	3	3	1	1	56	load
natural environment	471	495	526	498	525	450	360	306	382	404	483	442	427	320	305	262	287	251	224	206	195	223	199	8,241	natural environment
other causal agent	13	11	16	7	14	8	4	2	8	6	9	8	9	5	8	7	6	2	5	3	3	4	1	159	other causal agent
no causal agent	16	14	11	18	10	12	13	11	12	5	16	11	17	5	7	9	8	5	8	9	11	13	5	246	no causal agent
unclassifiable		4	9	4	4	6	1		1		3	1	1			2	1							37	unclassifiable
total	1,217	1,214	1,274	1,210	1,233	1,106	916	785	884	859	997	968	884	718	635	565	565	512	457	444	432	451	408	18,734	total

Causal agents (small) of fatal and non-fatal accidents in other 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					1					1					1			2				1		6	power transmission

mechanism																						mechanism
circular sawing machine		14	6	3		5	3	1	3	2	3					3	2	2		1	48	circular sawing machine
band sawing machine		1	1														1				3	band sawing machine
wood planer machine			1	2	2			1								1				1	8	wood planer machine
hollow chisel mortiser, wood borer		3		1																	4	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine					1							1								1	3	chamfering machine, router, woodworking milling machine
chain saw		176	180	145	135	175	161	188	195	158	122	97	96	96	75	72	65	67	62	57	2,322	chain saw
other woodworking machines		79	42	33	19	23	40	41	24	28	19	20	16	12	8	12	7	5	8	9	445	other woodworking machines
leveling, transporting or loading machine		2	1	4	2	3	5	1	1	3		1	2	1	5		1	6		1	39	leveling, transporting or loading machine
excavating machine		3	9	5	4	3	3	1	3	6	5	5	3	4	6	2	3	2	2	4	73	excavating machine
foundation work																						foundation work machine
hardening machine												1		1							2	hardening machine
demolition machine												1		2				1			4	demolition machine

vehicle for high lift work			1									1	1	1	1			3	2	10	vehicle for high lift work
other construction machines		1			5	5	3	7	5	4	5		4	2		1	1			43	other construction machines
lathe																					lathe
drill press, milling machine											1									1	drill press, milling machine
grinding machine, buffing machine										1							1			2	grinding machine, buffing machine
power press																					power press
forging pressure hammer																					forging pressure hammer
shearing machine																					shearing machine
other metal manufacturing machines		3	2		1	3	1	1	2										1	14	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
food manufacturing																					food manufacturing

machine																						machine
printing machine																						printing machine
industrial robot																	1				1	industrial robot
other general power machines		122	140	100	74	71	76	85	73	45	67	46	39	30	44	36	23	35	38	36	1,180	other general power machines
felling machine														6	5	3	5	8	16	7	50	felling machine
mobile logging machine														3	5	1	2	4	5	2	22	mobile logging machine
skyline yarding machine														5	1	1	2	6		3	18	skyline yarding machine
other mobile silviculture machine														1	3	1	1		1	1	8	other mobile silviculture machine
crane					1	1											1				3	crane
mobile crane		4	5	9	3	1	3	5	5	1	2	2	5	2	2	3		1	2	2	57	mobile crane
derrick crane																						derrick crane
elevator, lift																						elevator, lift
cargo lifting appliance																						cargo lifting appliance
gondola																						gondola
lumberyard equipment, logging cableway		3	5	6	3	6	2	5	2	5	3		2	1	4		2	1		1	51	lumberyard equipment, logging cableway
simple skyline yarding equipment														1						1	2	simple skyline yarding equipment

other powered			3	2		2	3	1	3	1	2	2	1	1						21	other powered
crane															<u> </u>		<u> </u>	<u> </u>			crane
truck	21	22	17	12	13	6	14	9	16	8	12	7	9	4	9	14	4	4	9	210	truck
forklift	4		1		1							1		1	2		1		1	12	forklift
railway equipment																					railway equipment
conveyor	1		1			1	1				1		1	1		1		1		9	conveyor
loader	1					1	1								1					4	loader
straddle carrier																					straddle carrier
rough terrain hauler			1			1		2				1		2			2			9	rough terrain hauler
other powered conveying machines	10	4	6	10	9	9	5	10	11	12	6	15	4		1	1	2	2	1	118	other powered conveying machines
cars, bus, motorcycle	8	11	11	11	6	3	5	23	5	16	4	3	5	7	2	1	9	4	3	137	cars, bus, motorcycle
railway vehicle																					railway vehicle
other vehicles					1	2														3	other vehicles
boiler																					boiler
pressure vessel																					pressure vessel
other pressure																					other pressure
vessels																					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																						kiln, caldron
industrial dryer																						industrial dryer
other kiln, caldron															1						1	other kiln, caldron
transmission															1						1	transmission
electric power																						electric power facilities
other electrical equipment																						other electrical equipment
human power cranes				1		1		1					1	1	1		1				7	human power cranes
human power hauling equipment									3	1											4	human power hauling equipment
human power machine		1		1		3	1			1		1		1	1					1	11	human power machine
hand tool		91	83	63	54	41	34	29	44	43	27	19	18	12	14	17	17	15	8	13	642	hand tool
ladder		36	32	25	27	20	17	11	17	14	17	14	11	6	8	8	13	8	7	2	293	ladder
slinging tool			2	1	2							2		1		1	1		2		12	slinging tool
other tools		12	14	10	6	7	5	5	9	7	4	11	2	5	3	4	5	4	7	1	121	other tools
other equipment,		3	1		1	2		2		2	3	2	2	1	2		3	1	2		27	other equipment,
scaffolding		2			1						1		1								5	scaffolding
timbering																						timbering

stairs, landing stage		3	2	1	2	3	3		2	1						2	1	1	2	1	24	stairs, landing stage
opening			1								1				1		1				4	opening
roof, beam, haze, crossbeam, principal rafter		2	2							1	2		2					1		1	11	roof, beam, haze, crossbeam, principal rafter
working platform,		10	17	3	10	6	6	6	10	3	3	7	5	3	4	2	6	4		1	106	working platform, boot board
passage		26	18	19	22	20	16	22	14	13	11	11	9	8	9	4	11	8	11	14	266	passage
building, establishment		3	6	3	2	6	4	4	1		5	3	2	4	1	2	3		3	5	57	building, establishment
other temporary buildings, establishments		4	4	1	5	2	3	1		2	1		6		1		2	1	1	1	35	other temporary buildings, establishments
explosive substance																						explosive substance
inflammable substance			1						1				1						1		4	inflammable substance
inflammable gas																						inflammable gas
harmful substance		2		1						1											4	harmful substance
radiation																						radiation
other hazards, harmful substances			1						1	1								1		2	6	other hazards, harmful substances
metal material		7	8	4	2	5	3	4	3	6	6	5		1	5	1	1	2		1	64	metal material
lumber, bamboo		43	50	46	40	35	26	35	38	39	36	31	23	28	22	22	21	13	15	13	576	lumber, bamboo
stone, sand,		3	3	7	5	2		1	2	5	4	4	3			2		2	5	1	49	stone, sand,

substance																					substance
other materials	1		1		2					1			2	1		2			1	11	other materials
load	6	3	3	2		2		1	2	2	4	2	2	2	4	3	2	1	1	42	load
machine/equipment as load	1					1		1									1			4	machine/equipment as load
natural ground, rock	152	146	68	85	78	95	98	84	90	67	74	60	65	56	56	50	58	46	54	1,482	natural ground, rock
standing tree	329	330	259	198	276	279	346	325	304	222	198	183	191	170	141	134	125	154	129	4,293	standing tree
water		1	1				1						1			1			1	6	water
abnormal environment					1				1										1	3	abnormal environment
high/cold temperature environment	7	5	3	5	3	2		4	6	5	4	4	4	6	7	3	2	2	5	77	high/cold temperature environment
other environments	38	43	29	18	24	28	38	29	26	26	29	15	26	19	20	18	10	21	9	466	other environments
other causal agent	16	14	4	2	8	6	9	8	9	5	8	7	6	2	5	3	3	4	1	120	other causal agent
no causal agent	11	10	13	11	12	5	16	11	17	5	7	9	8	5	8	9	11	13	5	186	no causal agent
unclassifiable	9	4	1		1		3	1	1			2	1							23	unclassifiable
total	1,274	1,233	916	785	884	859	997	968	884	718	635	565	565	512	457	444	432	451	408	13,987	total

Workers age of fatal and non-fatal accidents in other 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	18	19	22	29	10	8	12	4	5	7	12	9	9	14	6	7	10	10	7	7	5	7	10	247	19 years old or

																									less
20-29	100	123	147	134	139	117	96	68	97	88	116	116	89	75	69	52	52	46	40	45	43	52	46	1,950	20-29
30-39	126	121	142	134	186	146	150	131	141	163	195	172	149	121	130	112	104	116	88	83	92	72	79	2,953	30-39
40-49	166	173	174	169	169	165	131	122	131	118	165	154	158	143	116	111	111	109	88	87	85	103	94	3,042	40-49
50-59	269	224	242	267	272	258	205	192	227	198	228	210	192	154	135	109	110	100	94	74	88	97	74	4,019	50-59
60 years old or more	538	554	547	477	457	412	322	268	283	285	281	307	287	211	179	174	178	131	140	148	119	120	105	6,523	60 years old or more
total	1,217	1,214	1,274	1,210	1,233	1,106	916	785	884	859	997	968	884	718	635	565	565	512	457	444	432	451	408	18,734	total

Workers' number of workplace of fatal and non-fatal accidents in other 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	532	550	568	502	480	467	431	366	388	370	427	407	362	302	268	244	236	228	203	194	193	198	184	8,100	9 workers or less
10-29	314	309	351	338	345	271	228	219	275	271	298	261	260	214	202	168	174	171	150	161	140	157	133	5,410	10-29
30-49	180	171	181	171	220	175	145	130	124	112	132	147	123	93	89	96	91	66	72	62	65	65	57	2,767	30-49
50-99	124	140	133	148	157	149	94	51	81	87	119	130	118	90	65	48	57	41	29	24	24	24	28	1,961	50-99
100-299	67	43	41	51	31	44	18	19	16	19	21	23	21	19	11	9	6	6	3	3	10	7	6	494	100-299
300 workers or		1															1							2	300 workers or
more																									more
total	1,217	1,214	1,274	1,210	1,233	1,106	916	785	884	859	997	968	884	718	635	565	565	512	457	444	432	451	408	18,734	total

Month of fatal and non-fatal accidents in other 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
				$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$		$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$			$\overline{}$	$\overline{}$	$\overline{}$		$\overline{}$	$\overline{}$		$\overline{}$		

January	78	81	60	85	74	66	69	62	71	69	72	71	76	51	34	58	44	30	39	27	46	38	38	1,339	January
February	95	86	98	86	88	101	70	60	62	77	85	89	70	65	33	33	42	54	47	50	34	38	26	1,489	February
March	110	105	86	88	85	85	71	60	62	72	86	79	74	72	65	41	56	48	34	44	37	38	28	1,526	March
April	86	80	99	83	75	68	70	54	70	64	71	71	55	62	41	39	48	38	27	29	41	39	23	1,333	April
May	109	93	88	73	92	73	61	61	62	52	66	82	57	61	64	43	51	40	36	32	30	41	35	1,402	May
June	109	110	124	115	88	88	71	76	65	63	93	85	86	61	58	49	44	46	38	35	36	35	35	1,610	June
July	123	121	127	127	142	117	87	67	80	73	86	84	80	63	63	55	49	45	45	35	39	38	31	1,777	July
August	110	113	119	112	133	96	103	70	81	70	82	89	92	59	48	38	48	45	32	33	26	27	33	1,659	August
September	92	106	95	102	146	96	94	78	78	96	92	71	72	56	51	60	34	30	47	42	34	36	29	1,637	September
October	119	120	141	120	130	105	79	66	93	86	104	99	89	65	65	54	53	45	41	43	42	43	53	1,855	October
November	95	100	142	105	100	101	87	78	83	76	85	86	82	54	63	51	56	56	41	39	32	49	46	1,707	November
December	91	99	95	114	80	110	54	53	77	61	75	62	51	49	50	44	40	35	30	35	35	29	31	1,400	December
total	1,217	1,214	1,274	1,210	1,233	1,106	916	785	884	859	997	968	884	718	635	565	565	512	457	444	432	451	408	18,734	total

Prefecture of fatal and non-fatal accidents in other 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	81	77	85		76		67	45	74	85	67	62	55	59	52	46	31	40	44	46	50	40	20	1,202	Hokkaido
Aomori	32	10	14		6		5	9	16	13	17	18	11	7	8	4	7	10	9	8	6	6	8	224	Aomori
lwate	21	36	25		21		13	17	15	16	26	15	10	11	10	12	11	4	10	9	12	18	8	320	lwate
Miyagi	8	20	10		11		12	11	11	12	15	7	5	7	13	8	10	12	11	6	7	7	4	207	Miyagi
Akita	29	20	17		17		11	6	14	9	7	16	7	11	7	12	8	4	5	1	3	3	6	213	Akita
Yamagata	7	6	7		9		10	11	9	11	8	6	9	7	10	8	5	6	2	6	5	4	3	149	Yamagata

Fukushima	13	29	14	24	14	4	8	16	11	10	7	8	9	10	10	9	16	4	12	10	11	11	256	Fukushima
Ibaraki	4	2	6	3	2		3	3	4	4	6	5	1	4	3	12	6	5	7	8	7	3	98	Ibaraki
Tochigi	5	7	13	10	4		4	11	7	7	8	9	4	10	9	3	2	3	5	2	6	3	132	Tochigi
Gunma	19	17	24	28	12	2	14	15	12	18	15	14	13	7	4	14	8	6	6	3	9	4	262	Gunma
Saitama	7	15	16	7	8		6	3	6	5	11	6	4	3	5	2	2	7	1	1			115	Saitama
Chiba	9	8	6	2	10	0	3	1	6	8	4	5	6	2	2	1	1	1	1	1	1	4	82	Chiba
Tokyo	21	27	26	11	12	7	18	14	10	10	22	15	18	12	2	13	8	4	7	6	1	1	263	Tokyo
Kanagawa	16	12	10	9	7	,	10	7	18	18	17	12	11	12	7	8	12	8	12	7	13	11	237	Kanagawa
Niigata	20	17	12	21	13	3	14	9	8	9	5	10	7	9	12	7	6	8	13	9	9	7	225	Niigata
Toyama	17	15	12	19	13	3	15	9	14	13	16	7	8	1	4	2	1	1	2	1	6		176	Toyama
Ishikawa	31	33	31	24	29	9	15	21	27	29	25	14	20	21	12	21	6	7	14	8	8	10	406	Ishikawa
Fukui	25	23	36	26	14	4	13	2	6	5	4	17		4	6	7	3	9	3	3	3	6	215	Fukui
Yamanashi	18	26	28	19	10	0	15	12	8	20	12	20	11	9	10	9	12	5	3	5	6	4	262	Yamanashi
Nagano	45	31	50	52	2	7	40	39	28	41	47	42	38	30	31	31	26	17	20	25	20	19	699	Nagano
Gifu	32	28	50	61	40	6	23	36	45	62	48	27	31	18	16	25	22	19	16	18	15	17	655	Gifu
Shizuoka	19	16	20	10	13	3	12	7	12	3	6	20	14	6	13	11	9	7	10	5	8	10	231	Shizuoka
Aichi	18	9	24	23	13	3	12	16	17	16	20	19	9	15	14	7	4	6	5	5	5	6	263	Aichi
Mie	83	69	64	50	4:	3	30	26	25	48	29	28	24	15	16	12	15	10	10	5	18	13	633	Mie
Shiga	27	25	22	16	1:	5	17	7	14	29	36	21	19	16	10	7	3	7	12	3	2	6	314	Shiga
Kyoto	23	22	46	22	19	9	19	27	22	28	19	19	17	19	17	13	12	11	11	6	8	7	387	Kyoto
Osaka	10	6	14	31	7	,	4	9	4	11	5	10	2	3	2	2	2	1	3	3	2	3	134	Osaka
Hyogo	35	49	35	28	29	9	14	34	41	43	35	29	35	30	17	25	16	25	11	18	22	23	594	Hyogo
Nara	48	58	39	42	3	1	35	19	23	18	11	5	10	9	11	10	5	5	13	4	8	3	407	Nara

Wakayama	20	10	25	68	53	33	48	32	26	17	16	17	22	11	12	13	9	4	19	9	24	488	Wakayama
Tottori	21	40	31	22	12	12	13	15	15	23	11	17	13	12	7	7	8	1	4	14	5	303	Tottori
Shimane	64	62	49	43	34	33	30	37	44	49	56	28	25	39	31	20	22	10	20	19	16	731	Shimane
Okayama	80	35	32	29	32	28	25	19	42	48	31	25	16	13	12	12	8	7	8	7	6	515	Okayama
Hiroshima	56	42	63	64	26	32	46	33	40	51	41	38	33	27	37	49	28	23	20	21	21	791	Hiroshima
Yamaguchi	45	46	48	59	59	29	34	41	50	31	51	30	20	19	23	20	16	21	18	10	11	681	Yamaguchi
Tokushima	17	22	29	24	10	20	16	14	7	13	14	13	7	9	8	6	8	6	1	3	6	253	Tokushima
Kagawa	18	17	13	28	17	15	22	9	11	12	27	12	6	12	17	13	7	11	11	9	3	290	Kagawa
Ehime	20	22	23	15	10	15	12	8	10	52	60	32	27	17	3	18	19	14	20	19	16	432	Ehime
Kochi	15	41	47	19	42	30	37	31	42	30	23	25	24	29	23	14	15	16	11	20	20	554	Kochi
Fukuoka	17	38	44	39	35	19	32	24	26	32	23	21	13	10	9	14	7	7	8	11	12	441	Fukuoka
Saga	6	7	5	6	5	7	3	5	2	1	1					2	2	1		2	5	60	Saga
Nagasaki	20	8	12	20	9	7	14	11	9	8	8	8	7	3	8	6	7	12	8	7	4	196	Nagasaki
Kumamoto	30	26	24	9	9	9	10	12	8	11	15	3	9	4	10	5	6	6	7	2	8	223	Kumamoto
Oita	21	28	23	29	5	14	5	12	11	12	12	9	14	1	7	7	3	8	8	3	13	245	Oita
Miyazaki	23	29	29	39	16	14	19	10	27	19	20	16	18	22	24	16	16	16	16	21	10	420	Miyazaki
Kagoshima	14	26	17	38	21	23	35	28	28	19	16	11	15	12	9	15	19	7	14	7	8	382	Kagoshima
Okinawa	7	2	4	4	7	2	1	4	4	8			1	2	2	2		1		1		52	Okinawa
total	1,217	1,214	1,274	1,233	916	785	884	859	997	968	884	718	635	565	565	512	457	444	432	451	408	16,418	total

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

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

Fatal accidents in other forestry in Japan in 1999-2021

other forestry industry Code No.060209

Type of fatal accidents in other 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	4	2	6	1	3	1	2	3	2	3	5	3		4	4		2	4		2	3	3	2	59	fall from height
falling to same level		1						1		1	1				1								1	6	falling to same
crash													1											1	crash
struck by flying or falling object	2		3	1	1		1	2	1	1	1	2	3	4		4	1		1			1	1	30	struck by flying or falling object
collapse			2		3		2	3	2	2	2	4		1		3	2	1	2		3			32	collapse
crashed by	5	2	3	2	3	9	6	2		4	5	5	4	1	2	2	2	5	4	2	2	4	4	78	crashed by
caught in/between				1		1		2				1	2	2	1	1		1				2		14	caught in/between
cut	1	4	2	4	2	2	1	1		2		3		1	1									24	cut
injury to the sole of the																									injury to the sole
drown							1																1	2	drown
																									contact to

	2		2		1							1	2	1	1									10	high/low-
temperature																									temperature
contact to harmful substance																									contact to harmful substance
electric shock							1																	1	electric shock
explosion																									explosion
burst																									burst
fire	1																							1	fire
traffic accident (public	1		2	1	1	1							1								1			8	traffic accident
road)																									(public road)
traffic accident (others)														1										1	traffic accident (others)
																									reaction to
reaction to																									motion/improper
motion/improper motion																									motion
others				1	5	2					1	1	1		2		1							14	others
unclassifiable																									unclassifiable
total	16	9	20	11	19	16	14	14	5	13	15	20	14	15	12	10	8	11	7	4	9	10	9	281	total

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

ausal (I.) agonts	1999	2000	2001	2002	2003	2004	2005	2006	2007	2000	2000	2010	2011	2012	2012	2014	2015	2016	2017	2010	2010	2020	2021	total	Causal (L)
ausal (L) agents	1999	2000	2001	2002	2003	2004	2003	2000	2007	2008	2009	2010	2011	2012	2013	2014	2015	2010	2017	2016	2019	2020	2021	lotai	agents

machine	1	6	3	4	2	2	2	2		2		3	1	2	3			2			1	2	1	39	machine
crane, conveying machine	4		2	2	2	2	2	1		2		1	2	3		1		3			3			30	crane, conveying machine
other equipment	1	1			1					1					1	1	2							8	other equipment
temporary buildings, establishments	1													1									1	3	temporary buildings, establishments
substance, material								1						1				1						3	substance, material
load													1											1	load
environment	8	2	14	5	12	12	10	10	5	8	15	15	9	8	8	8	6	5	7	4	5	8	7	191	environment
others	1		1		2							1	1											6	others
total	16	9	20	11	19	16	14	14	5	13	15	20	14	15	12	10	8	11	7	4	9	10	9	281	total

Causal agents (middle) of fatal accidents in other 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
nowar transmission																									power
power transmission mechanism																									transmission
mechanism																									mechanism
																									woodworking

woodworking machine			2	1		2				1		1								7	machine
construction machine		1					1	1			1	1	2		1			1		9	construction machine
metal manufacturing machine																					metal manufacturing machine
general machine	1	5	1	3	2		1	1	2	2			1							19	general machine
mobile silviculture machine															1		1	1	1	4	mobile silviculture machine
crane	2			1	1		1	1	1	1										8	crane
conveying machine	2		1				1		1		2	2		1	2					12	conveying machine
vehicle			1	1	1	2						1			1		3			10	vehicle
pressure vessel																					pressure vessel
chemical facilities																					chemical facilities
welding equipment																					welding equipment
kiln, caldron																					kiln, caldron
electric equipment																					electric equipment
human power machine,									1											1	human power

tools																									machine, tools
tools	1	1			1										1	1	2							7	tools
other equipments, facilities																									other equipments, facilities
temporary buildings, establishments	1													1									1	3	temporary buildings, establishments
hazards, harmful substances																									hazards, harmful substances
materials								1						1				1						3	materials
load													1											1	load
natural environment	8	2	14	5	12	12	10	10	5	8	15	15	9	8	8	8	6	5	7	4	5	8	7	191	natural environment
other causal agent	1				2							1	1											5	other causal agent
no causal agent			1																					1	no causal agent
unclassifiable																									unclassifiable
total	16	9	20	11	19	16	14	14	5	13	15	20	14	15	12	10	8	11	7	4	9	10	9	281	total

Causal agents (small) of fatal accidents in other 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	
caasar (5) agents	''	2000	2001	2002	2003	2001	2003	2000	2007	2000	2007	2010	2011	2012	2013	2017	2015	2010	2017	2010	2017	2020	2021	cotai	caasai (5) agents	

<u> </u>	 			 			 $\overline{}$	 			 	$\overline{}$		 	 	 	<u></u>
engine																	engine
power transmission																	power transmission
mechanism																	mechanism
circular sawing																	circular sawing
machine																	machine
band sawing machine																	band sawing
Barra Sawing macrime																	machine
wood planer machine																	wood planer
wood planer machine																	machine
hollow chisel																	hollow chisel
mortiser, wood borer																	mortiser, wood
,																	borer
chamfering machine,																	chamfering
router, woodworking																	machine, router,
milling machine																	woodworking
																	milling machine
chain saw		1		1				1		1						4	chain saw
other woodworking			1	1												3	other woodworking
machines		'	'	I												3	machines
																	leveling,
leveling, transporting	1					1			1				1			4	transporting or
or loading machine																	loading machine
excavating machine					1										1	2	excavating machine
foundation work																	foundation work
machine																	machine

	 \vdash	 	 	=	=		=		=	 	\vdash	 	 	!	 	 	
hardening machine											1					1	hardening machine
demolition machine											1					1	demolition machine
vehicle for high lift work																	vehicle for high lift work
other construction machines										1						1	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																	mixer, grinder
roll machine (except printingroll machine)																	roll machine (except printingroll machine)
injection molding																	injection molding

machine																			machine
food manufacturing machine																			food manufacturing machine
printing machine																			printing machine
industrial robot																			industrial robot
other general power machines	1	5	1	3	2	1	1	2	2		1							19	other general power machines
felling machine															1		1	2	felling machine
mobile logging machine													1			1		2	mobile logging machine
skyline yarding machine																			skyline yarding machine
other mobile silviculture machine																			other mobile silviculture machine
crane																			crane
mobile crane				1		1		1	1									4	mobile crane
derrick crane																			derrick crane
elevator, lift																			elevator, lift
cargo lifting appliance																			cargo lifting appliance
gondola																			gondola
lumberyard equipment, logging cableway	1				1		1											3	lumberyard equipment, logging cableway

simple skyline yarding																		simple skyline
equipment																		yarding equipment
other powered crane	1																1	other powered crane
truck	1	1						1		1							4	truck
forklift													1				1	forklift
railway equipment																		railway equipment
conveyor																		conveyor
loader																		loader
straddle carrier																		straddle carrier
rough terrain hauler	1												1				2	rough terrain hauler
other powered conveying machines						1				1	2	1					5	other powered conveying machines
cars, bus, motorcycle		1	1	1	2						1		1		3		10	cars, bus,
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																	arc welding
equipment																	equipment
other welding																	other welding
equipment																	equipment
kiln, caldron																	kiln, caldron
industrial dryer																	industrial dryer
other kiln, caldron																	other kiln, caldron
transmission																	transmission
electric power																	electric power
facilities																	facilities
other electrical																	other electrical
equipment																	equipment
human power cranes																	human power
numan power cranes																	cranes
human power hauling																	human power
equipment																	hauling equipment
human power							1									1	human power
machine							<u> </u>									11.5	machine
hand tool																	hand tool
ladder	1	1										1				3	ladder
slinging tool																	slinging tool
other tools				1						1	1	1				4	other tools
other equipment,																	other equipment,
facilities																	facilities
1																	

scaffolding	1													1	scaffolding
timbering															timbering
stairs, landing stage															stairs, landing stage
opening															opening
roof, beam, haze,															roof, beam, haze,
crossbeam, principal															crossbeam,
rafter															principal rafter
working platform,															working platform,
boot board															boot board
passage								1					1	2	passage
building,															building,
establishment															establishment
other temporary															other temporary
buildings,															buildings,
establishments															establishments
explosive substance															explosive substance
inflammable															inflammable
substance															substance
inflammable gas															inflammable gas
harmful substance															harmful substance
radiation															radiation
other hazards,															other hazards,
harmful substances															harmful substances
metal material															metal material

lumber, bamboo								1						1				1						3	lumber, bamboo
stone, sand,																									stone, sand,
substance																									substance
other materials																									other materials
load													1											1	load
machine/equipment																									machine/equipment
as load																									as load
natural ground, rock	1	2	3	1	3	2	1	3	2	1	3	3		1	2		1			2		1	1	33	natural ground,
natarar ground, rock	<u> </u>			Ľ						Ľ							<u> </u>					<u> </u>			rock
standing tree	5		8	3	5	8	8	7	3	7	10	11	7	6	3	8	4	5	7	2	5	7	5	134	standing tree
water							1																1	2	water
abnormal																									abnormal
environment																									environment
high/cold																									high/cold
temperature	2		2		1							1	2	1	1									10	temperature
environment																									environment
other environments			1	1	3	2					2				2		1							12	other environments
other causal agent	1				2							1	1											5	other causal agent
no causal agent			1																					1	no causal agent
unclassifiable																									unclassifiable
total	16	9	20	11	19	16	14	14	5	13	15	20	14	15	12	10	8	11	7	4	9	10	9	281	total

Workers age of fatal accidents in other 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	1																							1	19 years old or less
20-29	1											2			1			2						6	20-29
30-39							1				2		3	1	1	1	1	1			1	1		13	30-39
40-49	1		1	1	5		1	2	1	1	3	1	1		2		1	2			3	1	4	31	40-49
50-59	3		6	2	5	7	3	1		3	3	4	4	1	2	3		1	2	1	3	3	1	58	50-59
60 years old or more	10	9	13	8	9	9	9	11	4	9	7	13	6	13	6	6	6	5	5	3	2	5	4	172	60 years old or more
total	16	9	20	11	19	16	14	14	5	13	15	20	14	15	12	10	8	11	7	4	9	10	9	281	total

Workers' number of workplace of fatal accidents in other 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	4	3	10	8	7	6	7	9	3	7	7	12	8	7	6	5	5	5	6	2	5	7	5	144	9 workers or less
10-29	7	2	4	2	9	4	4	4	1	5	6	2	4	4	4	2	3	2	1	1	2	3	2	78	10-29
30-49	1	3	3		3	3	2		1	1	2	4	1	2	1	2		4		1	2		2	38	30-49
50-99	3	1	2	1		3	1	1				1		1	1	1								16	50-99
100-299	1		1									1	1	1										5	100-299
300 workers or more																									300 workers or more
total	16	9	20	11	19	16	14	14	5	13	15	20	14	15	12	10	8	11	7	4	9	10	9	281	total

Month of fatal accidents in other 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		3				2	3	1	3	1	2		2	2		2	2		1	1	28	January

February	1		2	1	1		4	1	1	1	3	1	1	1				2					1	21	February
March	2		2	1	1	1	2	3	1		3	4	3	1		2		1	1	1		1	1	31	March
April	3			1	1			1		2		1		1	1		2				2	1	1	17	April
May	3	2		2	1		1			2	1		2	1	2		1		1		1	2		22	May
June	1		2	4	1	2	2	1	1		1	1	2		1	1			1		2			23	June
July	3	3	5		4	2	1	1			1	1		1	3	1	1	1			3	1	1	33	July
August	1	3		1	5	2	2	2		2	1	4	2	1	1			2						29	August
September			2		1	3	1	2				2		3	3	1	1	1		1		1	1	23	September
October		1	2	1	1	1				1	2	2		1	1		1					1	2	17	October
November	1					2		1		1	2	1	3	2		2		4	1					20	November
December	1		2			3	1	2		1				1		1			1		1	2	1	17	December
total	16	9	20	11	19	16	14	14	5	13	15	20	14	15	12	10	8	11	7	4	9	10	9	281	total

Prefecture of fatal accidents in other 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	4	2		1	1	1	2	3		3		1	3	1	3		3	1	2		5	3		39	Hokkaido
Aomori										1											1			2	Aomori
lwate	1	1	1			2									1							2	1	9	lwate
Miyagi											1													1	Miyagi
Akita	1						1							1										3	Akita
Yamagata										1														1	Yamagata
Fukushima				1						1	1				1		1						2	7	Fukushima

Ibaraki				1			1																	2	Ibaraki
Tochigi			1			1																		2	Tochigi
Gunma						1					1	1		2				1	1	1				8	Gunma
Saitama			1								1	1												3	Saitama
Chiba	1																							1	Chiba
Tokyo		1	1									2												4	Tokyo
Kanagawa			1		1					1	2							1						6	Kanagawa
Niigata			1									1									1			3	Niigata
Toyama						1		1							1									3	Toyama
Ishikawa	1		1		1		2			1		2				1	1			1				11	Ishikawa
Fukui	1							1							1								1	4	Fukui
Yamanashi		1		1	2								1			1								6	Yamanashi
Nagano	1		1		2			2		1		2		1	3						1			14	Nagano
Gifu				1	1		1	1			2							1					1	8	Gifu
Shizuoka				2				1				1	3	1		1	1		1	1				12	Shizuoka
Aichi								1											2				1	4	Aichi
Mie			1									1		2	1									5	Mie
Shiga					1											2					1			4	Shiga
Kyoto					1	1					2			1			1							6	Kyoto
Osaka						1			1	1	1											1		5	Osaka
Hyogo			2	1		1		1	1			1				2				1		1		11	Hyogo
Nara	3		1			1				1														6	Nara
Wakayama			2		1																		1	4	Wakayama

Tottori					1		1																	2	Tottori
Shimane		2		1			1				1	2	1	1				1						10	Shimane
Okayama	1	1	1		1	1	2				1			1			1							10	Okayama
Hiroshima			2			1				1				1				1					1	7	Hiroshima
Yamaguchi			1	1		1							1											4	Yamaguchi
Tokushima	1				1											1								3	Tokushima
Kagawa							1									1								2	Kagawa
Ehime								1	1			2	2	2				2					1	11	Ehime
Kochi						2					1							1	1			2		7	Kochi
Fukuoka			1		1			1					1			1						1		6	Fukuoka
Saga									1				1											2	Saga
Nagasaki	1											2						1						4	Nagasaki
Kumamoto			1							1					1									3	Kumamoto
Oita		1									1													2	Oita
Miyazaki				1	2			1	1				1											6	Miyazaki
Kagoshima					2		1							1				1						5	Kagoshima
Okinawa						1	1					1												3	Okinawa
total	16	9	20	11	19	16	14	14	5	13	15	20	14	15	12	10	8	11	7	4	9	10	9	281	total

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

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