

Fatal and non-fatal accidents in other pulp/paper processing products in Japan in 1999-2021

other pulp/paper processing products industry Code No.010609

Type of accidents in other pulp/paper processing products 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	18	27	23	20	31	16	20	19	21	19	17	15	10	13	15	14	20	16	7	14	21	11	16	403	fall from height
falling to same level	21	26	27	25	27	21	31	21	15	25	14	25	18	19	17	14	12	28	13	22	16	21	22	480	falling to same level
crash	15	14	5	10	12	12	10	7	6	3	9	8	6	7	8	7	8	2	7	11	12	6	8	193	crash
struck by flying or falling object	6	10	18	6	6	8	7	9	6	10	4	11	8	6	3	4	5	6	3	6	2	1	6	151	struck by flying or falling object
collapse	4	5	5	6	4	3	11	3	2	4	3	4	1	1	5	4	3	5	1	2	1	3	7	87	collapse
crashed by	10	13	5	7	8	7	9	6	10	9	8	6	6	2	5	6	4	6	5	8	4	3	7	154	crashed by
caught in/between	123	124	115	108	119	111	121	104	109	94	76	79	68	77	81	81	68	52	48	61	62	52	63	1,996	caught in/between
cut	12	23	19	13	15	13	13	12	23	14	8	7	14	12	5	17	16	9	13	11	11	6	10	296	cut
injury to the sole of the foot				1	1		2			1			1			1				1				8	injury to the sole of the foot
drown													2											2	drown
contact to high/low-temperature	4	4	5	2	2	2		2	3	2		2	1		4	3	3	1	2	4	4	1	2	53	contact to high/low-temperature

engine																							1	1	engine
power transmission mechanism			5				9	4	6	1	2	1	6	5	2	3	2	3	4	2	2	3	5	65	power transmission mechanism
circular sawing machine			2		2		3		2	1	1		1	2	1	3	2		1	1			4	26	circular sawing machine
band sawing machine													1											1	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																									chain saw
other woodworking machines			1						1		1			1						1	1		1	7	other woodworking machines
leveling, transporting or loading machine			1																					1	leveling, transporting or loading machine
excavating machine							1	1																2	excavating machine
foundation work machine																									foundation work machine

machine				2				2			1												5	machine	
food manufacturing machine			1						2														3	food manufacturing machine	
printing machine			13		18		14	12	18	16	7	5	5	15	12	12	8	5	5	13	5	4	6	193	printing machine
industrial robot							1			1						1		1					4	industrial robot	
other general power machines			66		69		53	57	66	60	44	41	35	35	51	46	46	36	28	43	40	27	38	881	other general power machines
felling machine																									felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
crane			1				2			1								1						5	crane
mobile crane													1									1		2	mobile crane
derrick crane																									derrick crane
elevator, lift			2			2	1	1	2					1						1		1		11	elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola							1																	1	gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway

facilities			4		2		2	4	2	1	3	2	1	6	3	5	1	4	3	5	2	1	2	53	facilities
scaffolding									1							1								2	scaffolding
timbering																									timbering
stairs, landing stage			9		8		6	4	3	2	3	5	5	2	2	5	1	4	4	3	4	5	5	80	stairs, landing stage
opening								2	1	1		1				1		1			1			8	opening
roof, beam, haze, crossbeam, principal rafter							1		1		1	1						1						5	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			5		4		7	4	4	3	1	10	1	5	4	1	7	2	1	4	1	2	2	68	working platform, boot board
passage			8		10		11	3	7	11	11	8	6	8	6	5	4	11	9	15	10	12	9	164	passage
building, establishment			1		4		3	4	2	1	1	3	3	4	3	2	3	1	2	2	1	1	2	43	building, establishment
other temporary buildings, establishments			1		1		2	3	2			1	5			1	1	1		4		2	4	28	other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance								1		1														2	inflammable substance
inflammable gas																									inflammable gas
harmful substance			2					1											1				1	5	harmful substance
radiation																									radiation
other hazards, harmful substances			1							1		1									1			4	other hazards, harmful substances

metal material			1		3		5	1	5	1	2	8	3			1	1	1	1	1	1	1	1	1	36	metal material	
lumber, bamboo			2		2		1	1		3		1		2	1		1		2	2			1		19	lumber, bamboo	
stone, sand, substance							1		1							1									3	stone, sand, substance	
other materials			3		5		7	10	4	8	2	4	3	2	5	2	4	3	4	3	8	1	6		84	other materials	
load			15		9		11	9	10	10	6	6	7	9	9	9	10	7	6	11	10	7	11		172	load	
machine/equipment as load			3		1			2				1	1			2				1					11	machine/equipment as load	
natural ground, rock																											natural ground, rock
standing tree																											standing tree
water													2				1			1					4	water	
abnormal environment																											abnormal environment
high/cold temperature environment			1					1	2			1	1		2	2	2	1		2		2	2		19	high/cold temperature environment	
other environments			2				1	3				1			1	1					2		1		12	other environments	
other causal agent			3				4	1	2	1	1		1			1			1	1			3		19	other causal agent	
no causal agent			4		6		3	6	7	5	5	1	3	7	2	2	6	2	2	8	2	4	6		81	no causal agent	
unclassifiable															1										1	unclassifiable	
total			233		237		235	205	220	198	150	171	146	158	152	158	159	137	110	157	147	114	156		3,243	total	

Workers age of fatal and non-fatal accidents in other pulp/paper processing products 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	6	13	3	10	6	4	9	4	5	4	4	2	4	5	4	7	2	6	5	1	2		5	111	19 years old or less
20-29	46	63	55	44	46	43	47	35	43	28	24	25	24	23	16	28	23	13	14	31	24	10	21	726	20-29
30-39	39	37	51	45	57	49	50	50	53	60	27	39	36	34	38	25	43	35	16	37	31	26	32	910	30-39
40-49	51	59	26	34	44	34	44	45	48	41	43	41	25	41	39	41	35	33	46	33	36	32	40	911	40-49
50-59	69	61	68	55	56	57	56	41	46	34	37	40	32	37	31	30	27	31	15	31	30	25	36	945	50-59
60 years old or more	17	30	30	22	28	25	29	30	25	31	15	24	25	18	24	27	29	19	14	24	24	21	22	553	60 years old or more
total	228	263	233	210	237	212	235	205	220	198	150	171	146	158	152	158	159	137	110	157	147	114	156	4,156	total

Workers' number of workplace of fatal and non-fatal accidents in other pulp/paper processing products 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	41	47	51	48	44	45	49	29	45	34	35	24	30	28	26	26	28	18	14	17	11	14	20	724	9 workers or less
10-29	65	81	71	62	75	64	80	67	66	64	54	58	37	50	50	49	52	49	39	47	51	35	40	1,306	10-29
30-49	40	49	50	47	48	34	34	48	35	26	23	36	28	26	32	36	34	29	20	35	26	32	33	801	30-49
50-99	47	53	34	33	43	31	36	37	41	43	23	20	26	30	26	27	33	24	20	36	35	19	34	751	50-99
100-299	23	27	19	17	24	29	32	17	25	26	15	29	22	22	16	18	10	17	14	19	19	14	25	479	100-299
300 workers or more	12	6	8	3	3	9	4	7	8	5		4	3	2	2	2	2		3	3	5		4	95	300 workers or more
total	228	263	233	210	237	212	235	205	220	198	150	171	146	158	152	158	159	137	110	157	147	114	156	4,156	total

Month of fatal and non-fatal accidents in other pulp/paper processing products 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	19	20	19	22	14	18	22	17	19	19	12	17	10	17	13	15	9	12	11	15	6	13	18	357	January
February	17	35	19	11	19	12	16	21	25	23	13	17	12	14	14	6	12	9	10	12	10	6	6	339	February
March	12	23	29	23	21	18	24	15	19	14	11	12	12	14	17	14	15	14	8	12	17	9	13	366	March
April	24	26	20	17	16	19	13	9	18	15	11	11	12	18	12	17	13	9	6	11	13	11	17	338	April
May	23	16	17	11	20	22	14	14	17	22	12	20	9	8	15	11	15	10	4	12	10	7	8	317	May
June	19	21	27	17	27	22	25	13	23	18	14	10	16	12	14	14	13	6	7	12	14	5	13	362	June
July	20	17	19	14	28	24	23	25	23	12	13	8	9	16	5	8	16	10	14	18	10	16	11	359	July
August	20	31	17	21	18	16	17	23	13	3	9	16	17	9	10	14	14	14	8	11	11	7	16	335	August
September	21	20	20	24	24	14	21	21	14	14	15	14	13	12	17	13	7	11	10	9	15	8	13	350	September
October	17	11	16	19	19	12	21	16	15	22	16	13	13	12	10	13	16	16	9	16	15	17	14	348	October
November	24	19	15	12	20	17	20	22	15	19	6	16	11	13	10	15	17	13	11	14	11	8	14	342	November
December	12	24	15	19	11	18	19	9	19	17	18	17	12	13	15	18	12	13	12	15	15	7	13	343	December
total	228	263	233	210	237	212	235	205	220	198	150	171	146	158	152	158	159	137	110	157	147	114	156	4,156	total

Prefecture of fatal and non-fatal accidents in other pulp/paper processing products 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	5	6	2		4		3	1	2			1	1	1	1		2	2	1	2	1	4	1	40	Hokkaido
Aomori	1				1					2	1	1		2	1	2				2				13	Aomori
Iwate		2	1		1		1		1		1	3		1	2	3	1	1		1	2		2	23	Iwate

Miyagi	1	4	3		3		1	5	4	2	1	2	2	1		1	1		1	1		1		34	Miyagi
Akita	1		1		1			1					1	1	1		1						1	9	Akita
Yamagata	2	3	1						1						2							1		10	Yamagata
Fukushima	2	5	2		2		3	6	6	2	1	3		2	2	2	1	1	2		1		1	44	Fukushima
Ibaraki	7	15	9		5		9	4	9	9	3	8	8	6	3	5	9	6	3	10	7	1	6	142	Ibaraki
Tochigi	7	9	5		12		7	7	8	18	10	6	5	4	8	4	8	7	8	8	7	8	8	164	Tochigi
Gunma	9	8	4		5		5	7	8		5	5	5	5	1	5	6	5	4	6	4	2	4	103	Gunma
Saitama	22	45	27		27		24	26	24	27	16	24	13	23	23	18	13	23	11	3	16	11	21	437	Saitama
Chiba	9	6	4		6		3	4	4	4	1	3	7	7	4	4	5	5	3	4	2	3	8	96	Chiba
Tokyo	9	10	6		9		8	16	11	5	8	6	5	5	5	4	4	3	3	3	5	4	6	135	Tokyo
Kanagawa	5	7	8		11		6	7	7	13	1	3	6	7	3	7	3	8	9	7	7	2	3	130	Kanagawa
Niigata	6	3	6		3		3	2	2	5	1	3	3	2		1	1	1	3	5	5	4	5	64	Niigata
Toyama	4	5	3		2		3	1	3	4	1	1	3	4	4		2	1	1		3	1	2	48	Toyama
Ishikawa	2	1	2		2						1	1	3		1	1	1			2				17	Ishikawa
Fukui	3	2	4		1		2	5	3	1		2	2	2	1	3	1	3	1	1	1			38	Fukui
Yamanashi	6	4	3		2		2		1	2	1	1	1	2		1		1						27	Yamanashi
Nagano	3		5		1		1	1	2		2	1			2	1	1	1		1	1	1	1	25	Nagano
Gifu	14	12	10		6		4	7	5	6	7	8	4	5	4	7	7	4	8	10	6	7	9	150	Gifu
Shizuoka	13	17	22		19		29	16	18	24	21	7	9	16	12	16	23	12	9	10	16	17	12	338	Shizuoka
Aichi	27	21	17		20		14	16	20	10	10	20	17	10	5	9	11	8	8	12	4	8	6	273	Aichi
Mie	1	1	4		3		3	3	9	2	1	2	2	1	8	2	2		2	4	6	1	3	60	Mie
Shiga		2	7		1		6	11	7	5	4	7	3	4	2	2		2		3	1	2	1	70	Shiga
Kyoto	3	1	3		3		3	1	1	5	2	3	6	2	1	5		1	1	2	1	1	4	49	Kyoto

Osaka	22	31	38		22		34	16	20	13	20	14	11	12	10	15	24	14	10	15	9	9	19	378	Osaka
Hyogo	6	5	4		23		9	9	11	10	7	7	4	9	9	11	10	6	6	16	14	7	7	190	Hyogo
Nara		1			4			3	4	2		4	2	1	3		3	2	2	1		3	1	36	Nara
Wakayama			2		2																	1		5	Wakayama
Tottori	2	1	2				1													1				7	Tottori
Shimane	1	1	1																			1		4	Shimane
Okayama	4	1			3		2		2	2	4	2	3	1	2	1	2	3	1	1	4	2	1	41	Okayama
Hiroshima	4	1	3		1		6	2	1	3	3	1	1	3	8				1	2	2		3	45	Hiroshima
Yamaguchi	1	2	1		4		1			1	1				1	1				1			1	15	Yamaguchi
Tokushima	2	3			6		1	2			2	1		2	1	4	1	2	1		5	2		35	Tokushima
Kagawa	9	15	11		8		19	10	16	11	7	8	5	7	10	5	7	4	5	7	8	5	11	188	Kagawa
Ehime		1			1		3	1		1		1			3	5	1	1	2	3	3	1	1	28	Ehime
Kochi	2				2		6	7	3	1	1	2	3	2	2	5	1	7	3	3		2	3	55	Kochi
Fukuoka	8	8	4		6		8	1	3	4	3	5	3	2	3	4	3	2		2	3	2	3	77	Fukuoka
Saga	1	1	2				1	3	1		2	2	5	3		1			1	1			1	25	Saga
Nagasaki								1				1					1						1	4	Nagasaki
Kumamoto	2	1	1		1		2	1	2					1			1	1		4	1	1		19	Kumamoto
Oita	2	1	3		2		1	1					1	1						2				14	Oita
Miyazaki		1	1		1		1			4	1	2	2	1	2	2	2			1				21	Miyazaki
Kagoshima			1						1						2	1					1			6	Kagoshima
Okinawa					1			1																2	Okinawa
total	228	263	233		237		235	205	220	198	150	171	146	158	152	158	159	137	110	157	147	114	156	3,734	total

injury to the sole of the foot																							injury to the sole of the foot	
drown													2										2	drown
contact to high/low-temperature																							1	contact to high/low-temperature
contact to harmful substance																								contact to harmful substance
electric shock																							1	electric shock
explosion																								explosion
burst																								burst
fire																								fire
traffic accident (public road)																								traffic accident (public road)
traffic accident (others)																								traffic accident (others)
reaction to motion/improper motion																								reaction to motion/improper motion
others																								others
unclassifiable																								unclassifiable
total		1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1		1	total

total		1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1		1	28	total
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Causal agents (small) of fatal accidents in other pulp/paper processing products 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		1														1								2	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																									chain saw
other woodworking machines																									other woodworking machines

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																											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																									ladder
slinging tool																1								1	slinging tool
other tools																									other tools
other equipment, facilities																									other equipment, facilities
scaffolding																									scaffolding
timbering																									timbering
stairs, landing stage																									stairs, landing stage
opening																							1	1	opening
roof, beam, haze, crossbeam, principal rafter																									roof, beam, haze, crossbeam, principal rafter
working platform, boot board											1					1								2	working platform, boot board
passage																									passage
building, establishment																									building, establishment
other temporary buildings, establishments																									other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance																									inflammable substance

no causal agent																									no causal agent
unclassifiable																									unclassifiable
total		1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1		1	28	total

Workers age of fatal accidents in other pulp/paper processing products 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																										19 years old or less
20-29									1							2									3	20-29
30-39					1											1									2	30-39
40-49							1	1				1				1			1					1	6	40-49
50-59			2		1	1					1					1									6	50-59
60 years old or more		1			2	1							2		2		1	1				1			11	60 years old or more
total		1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1		1	28	total	

Workers' number of workplace of fatal accidents in other pulp/paper processing products 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			1	1									2	2			1				1	9	9 workers or less	
10-29					2				1				1			1	1	1							7	10-29
30-49			1		1		1	1				1	1												6	30-49
50-99											1											1			2	50-99

100-299			1			1																				2																		4	100-299							
300 workers or more																																																				300 workers or more
total			1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1					2	5	1	1	1		1																		28	total

Month of fatal accidents in other pulp/paper processing products in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month		
January					1			1								1									3	January	
February						1									1										2	February	
March			1									1	2			2		1							7	March	
April							1									1									2	April	
May					1																				1	May	
June						1									1										2	June	
July					1				1											1					3	July	
August			1																						1	August	
September											1						1							1	3	September	
October					1											1						1			3	October	
November		1																							1	November	
December																											December
total		1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1			1	28	total	

Prefecture of fatal accidents in other pulp/paper processing products in 1999-2021

Miyazaki																										Miyazaki
Kagoshima								1																	1	Kagoshima
Okinawa																										Okinawa
total		1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1		1	28	total	

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

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