

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

pulp/paper industry Code No.010601

Type of accidents in pulp/paper 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	33	31	29	25	25	21	22	21	13	19	21	21	19	18	14	23	19	22	18	19	12	17	14	476	fall from height
falling to same level	23	28	27	26	28	21	15	28	15	30	19	13	15	18	13	23	17	19	21	17	19	25	18	478	falling to same level
crash	10	23	15	11	10	9	14	5	4	9	4	5	12	6	6	7	11	7	5	3	3	5	5	189	crash
struck by flying or falling object	21	14	10	11	11	14	6	9	6	11	5	7	7	8	5	1	9	7	9	5	6	5	3	190	struck by flying or falling object
collapse	8	8	5	3	4	8	5	2	4		3	4	3		7	2	4	3	1	1	3	2	3	83	collapse
crashed by	14	12	18	9	6	11	15	12	10	6	9	2	5	5	8	3	2	9	3	6	3	4	10	182	crashed by
caught in/between	152	152	127	126	109	89	91	116	95	93	86	80	70	62	62	64	67	50	54	59	59	52	55	1,970	caught in/between
cut	26	21	12	19	20	22	9	15	8	15	3	11	10	9	8	11	9	4	11	8	5	6	7	269	cut
injury to the sole of the foot	1		1	3		1				1					1	1		1	1					11	injury to the sole of the foot
drown								1									1				1			3	drown
contact to high/low-temperature	7	10	6	5	3	9	5	4	7	4	2	2	2	1	2	1	2	2	4	6	3	6	4	97	contact to high/low-temperature









engine								1			1												2	engine		
power transmission mechanism			5		7			5	3	4	6	3	1	6	1	1	1	4	1	3	6	6	4	3	70	power transmission mechanism
circular sawing machine			1		1				1	1	1									1			2		9	circular sawing machine
band sawing machine																										band sawing machine
wood planer machine																								1	1	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														2	other woodworking machines
leveling, transporting or loading machine										1		1	2		1		1						2		8	leveling, transporting or loading machine
excavating machine												1													1	excavating machine
foundation work machine																										foundation work machine



machine			1		1					1														3	machine		
food manufacturing machine																										food manufacturing machine	
printing machine			5		1		4	5		4	3	2	3	4	2	1	2	1	3	2	3	2	2	49	printing machine		
industrial robot																										industrial robot	
other general power machines			57		59		38	61	41	47	37	28	43	25	30	30	38	22	20	32	20	30	27	685	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			3		3		3	2	1	1	2	4	2	2	3		2	1	1	3					33	crane	
mobile crane														1												1	mobile crane
derrick crane			1																							1	derrick crane
elevator, lift			1				1	2	1	2									1				1	1	10	elevator, lift	
cargo lifting appliance																											cargo lifting appliance
gondola																											gondola
lumberyard equipment, logging cableway																											lumberyard equipment, logging cableway





facilities			5		11		9	7	4	4	3	5	7	3	1	4	2		7	7	8	3	4	94	facilities
scaffolding			2		3						3	1		1		1			1		2		1	15	scaffolding
timbering																									timbering
stairs, landing stage			9		10		7	10	4	6	4	6	8	2	5	10	3	7	4	4	6	7	5	117	stairs, landing stage
opening						1					2			2			3		1	1		1	4	15	opening
roof, beam, haze, crossbeam, principal rafter			2							1	1							1	1	1	2	2		11	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			8		7		5	9	7	5	3	2	4	3	4	4	10	3	5	3		1	5	88	working platform, boot board
passage			9		9		4	6	4	16	12	10	10	15	5	12	9	10	10	8	8	7	9	173	passage
building, establishment			4		3		2	7	2	4		2	4	2		5	2	5	4	1	2	2	3	54	building, establishment
other temporary buildings, establishments			4				2	1	1	2			4	1	1	3		4	5		2	4	1	35	other temporary buildings, establishments
explosive substance			1																					1	explosive substance
inflammable substance			1		1																			2	inflammable substance
inflammable gas																									inflammable gas
harmful substance			2		2		2	4	2	1		3	1	1	1	1	2	2	4	5			3	36	harmful substance
radiation																									radiation
other hazards, harmful substances			2		5		3	1	2	2	2	1	1			1	1		1		1		2	25	other hazards, harmful substances

metal material			3		4		4	3	4	2	2	7	3	6	3	2	5	2	3	2	1			56	metal material
lumber, bamboo			1		1		2	1	1													1		7	lumber, bamboo
stone, sand, substance													1											1	stone, sand, substance
other materials			3		4		5	10	4	7	7	3	2	1	4	1	2	1	3		4	6	10	77	other materials
load			14		14		11	8	8	6	3	9	9	7	12	7	8	9	6	8	5	6	5	155	load
machine/equipment as load			1		1			1	2			1			1				1					8	machine/equipment as load
natural ground, rock														1										1	natural ground, rock
standing tree																									standing tree
water																1						2		3	water
abnormal environment																					1			1	abnormal environment
high/cold temperature environment								1			1	1		1		1			2	2	2	1		13	high/cold temperature environment
other environments			4				2	1			1		4	1	1	1	2		2	1	1			21	other environments
other causal agent			1		1			3		2			1	2		1				1		1	18	31	other causal agent
no causal agent			7		2		4	8	4	5	5	3	2	1	6	3	9	6	2	6	1	8	7	89	no causal agent
unclassifiable							1			2		1				1								5	unclassifiable
total			275		234		203	236	183	207	164	161	155	138	143	148	161	136	141	144	124	147	157	3,257	total

Workers age of fatal and non-fatal accidents in pulp/paper 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	14	14	10	9	9	7	4	7	5		2	5	4	6	5	3	2	3	3	3	4	6	2	127	19 years old or less
20-29	75	65	63	60	50	42	40	39	32	43	33	29	22	24	24	22	19	18	23	18	17	24	22	804	20-29
30-39	45	72	49	53	48	52	58	66	39	52	40	40	47	32	43	46	41	29	30	39	31	21	30	1,003	30-39
40-49	68	56	56	50	39	33	30	50	44	41	30	36	43	34	25	31	43	32	41	40	32	37	44	935	40-49
50-59	92	95	75	73	69	70	46	62	46	53	45	41	33	30	30	27	36	41	22	30	21	37	30	1,104	50-59
60 years old or more	23	20	22	21	19	16	25	12	17	18	14	10	6	12	16	19	20	13	22	14	19	22	29	409	60 years old or more
total	317	322	275	266	234	220	203	236	183	207	164	161	155	138	143	148	161	136	141	144	124	147	157	4,382	total

Workers' number of workplace of fatal and non-fatal accidents in pulp/paper 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	20	28	19	29	22	26	23	18	15	16	6	11	6	6	10	11	9	7	7	11	9	7	7	323	9 workers or less
10-29	56	42	61	35	47	34	41	51	35	37	29	24	23	29	33	38	29	16	24	25	16	22	28	775	10-29
30-49	53	66	37	37	43	36	30	36	28	27	24	23	29	17	19	26	26	28	24	24	18	23	19	693	30-49
50-99	74	60	65	59	48	48	40	57	48	58	40	46	28	36	35	25	29	37	33	29	26	30	36	987	50-99
100-299	70	76	71	74	52	49	53	57	34	53	50	42	55	42	36	43	59	42	39	45	45	49	47	1,183	100-299
300 workers or more	44	50	22	32	22	27	16	17	23	16	15	15	14	8	10	5	9	6	14	10	10	16	20	421	300 workers or more
total	317	322	275	266	234	220	203	236	183	207	164	161	155	138	143	148	161	136	141	144	124	147	157	4,382	total

Month of fatal and non-fatal accidents in pulp/paper 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	32	23	25	24	24	19	21	21	15	19	25	21	18	13	9	12	8	15	14	10	12	9	11	400	January
February	30	24	22	16	25	24	15	20	19	21	16	11	11	13	13	14	12	11	14	10	9	13	12	375	February
March	29	35	27	23	26	27	20	17	18	18	14	24	21	7	11	14	14	15	12	15	14	13	14	428	March
April	21	16	19	19	20	12	9	24	14	13	6	13	13	14	8	10	18	10	11	11	8	11	12	312	April
May	26	28	21	21	17	9	24	17	20	17	12	4	21	13	11	13	11	13	11	13	17	16	11	366	May
June	30	28	15	22	17	20	13	15	12	13	10	4	15	14	13	12	19	10	12	14	8	12	13	341	June
July	24	33	27	23	18	18	11	18	18	13	18	9	9	11	10	15	11	9	13	14	7	15	12	356	July
August	30	24	33	22	15	20	22	23	18	16	10	16	6	13	11	17	12	10	14	16	13	17	27	405	August
September	27	36	25	21	17	20	18	19	12	17	7	17	7	4	15	10	14	13	12	10	8	7	7	343	September
October	31	28	17	19	16	23	23	17	11	22	12	10	7	11	14	10	11	8	15	15	11	15	8	354	October
November	17	26	17	32	20	9	14	25	10	18	14	17	14	13	14	8	14	13	1	6	6	9	13	330	November
December	20	21	27	24	19	19	13	20	16	20	20	15	13	12	14	13	17	9	12	10	11	10	17	372	December
total	317	322	275	266	234	220	203	236	183	207	164	161	155	138	143	148	161	136	141	144	124	147	157	4,382	total

Prefecture of fatal and non-fatal accidents in pulp/paper 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	14	16	11		5		13	13	7	9	16	5	8	9	5	6	11	7	7	8	10	9	6	195	Hokkaido
Aomori	2	1	3						2	2		1	5						3	1	1	1	2	24	Aomori
Iwate	1	3	1		6		1	4	4	5	1	4	4	1	4	2	1		3	3	1	1	3	53	Iwate

Miyagi	4	7	1		2		2	2	2	1	2	1	2	1	2		2	1		1		3	2	38	Miyagi
Akita	1	1	2		3			1	1			2		2			3	2		3	1	1	1	24	Akita
Yamagata	1	2	2		3			2																10	Yamagata
Fukushima	3	4	3		3		2	2	3	2	1	4	3	6	1		2	3	1	1	5	2	1	52	Fukushima
Ibaraki	4	8	3		3		3	5	3	3	3	2	4	2	4	4	3		1		2	1	7	65	Ibaraki
Tochigi	3	2						3				1		1	2	1	2	1		1			1	18	Tochigi
Gunma										1						1		1		1	2	2	8	Gunma	
Saitama	9	4	10		3		11	9	11	7	5	4	2	6	10		5	10	2	5	5	2	5	125	Saitama
Chiba	6	6	4		2		3	3		2	3		2	2	3	4	1	2	1	4		1	9	58	Chiba
Tokyo	3	3	3		1		2	1	2	1	1	3	1				2		1		1			25	Tokyo
Kanagawa	3	1	2		5			1	3					2	3	2	1	5	2			3		33	Kanagawa
Niigata	2	3	3		2		1	5	1	3	4	3	1	1		4	5	3	6	3	2	1	3	56	Niigata
Toyama	5	1	3		3		4	4	3	3	4	4			1	2	5		5	1	3	3	2	56	Toyama
Ishikawa	1	3	4		3		1	7	1	1	2	1	2	1	1	2	1	2		4	2	3	2	44	Ishikawa
Fukui	8	3	8		6		3	7	4	1	2	3	1	1	1	3	2	3		4	2	1	2	65	Fukui
Yamanashi	2	2	5		2		5	5		1			2	2	2	2	2	1	2	1	1		2	39	Yamanashi
Nagano		2			2											1						1		6	Nagano
Gifu	18	22	20		20		10	7	9	15	9	17	11	7	11	11	9	10	10	14	7	8	10	255	Gifu
Shizuoka	88	74	71		65		49	59	35	53	44	37	27	24	26	32	39	32	34	32	37	36	36	930	Shizuoka
Aichi	5	8	9		4		4	2	3	4	8	2	3	6	2	4	3	4	11	6	7		5	100	Aichi
Mie			4		3		1	1	1	3	2	1	2	1						2			1	22	Mie
Shiga		4	2					1	3		2	2	2		1	3	2		2		1	2	3	30	Shiga
Kyoto	1	1					1	1						1	1					1			1	8	Kyoto

Osaka	8	6	9		5		10	10	3	13	4	3	6	8	6	10	3	4	8	5	6	10	7	144	Osaka	
Hyogo	10	5			4		8	10	6	3	1	9	7	3	4	6	7	5	3	1	2	4	4	102	Hyogo	
Nara	1																						1	2	Nara	
Wakayama		1																						1	Wakayama	
Tottori	3	2	1		2		1	1	6	4	2	1	1	2	3	4	3	2	3	1	4	4	3	53	Tottori	
Shimane	2	2						1		2		1				1	1		1			2		13	Shimane	
Okayama	1	5	4		3		4	4	2	4	3	1	2	5	2	2	1	2			2	1		48	Okayama	
Hiroshima	3	4	7		2		4		2		3	3	3	2		2	3	1		4			1	44	Hiroshima	
Yamaguchi	5	3	1		3		2	2	2		1			2	1	1				2	1	1	3	30	Yamaguchi	
Tokushima	4	17	5		4		3	1	5	5	1	3	5	4	2	2	3	3	3	4		3	4	81	Tokushima	
Kagawa	8	9	7		7		4	4	3	1	1	2	6	3	1	2	2							60	Kagawa	
Ehime	44	35	34		29		35	33	34	34	23	21	26	21	29	23	22	19	18	18	12	22	14	546	Ehime	
Kochi	29	33	23		21		8	6	12	13	8	12	8	8	7	8	8	9	7	7	3	12	6	248	Kochi	
Fukuoka	2	8	5		3		2	9	5	2	2	1	5		4	1	3	1		4	2	1	3	63	Fukuoka	
Saga	3	3			3		2	1		5	2	2			3	2	1	2	1			2	3	35	Saga	
Nagasaki	2	3	2					2		1								1						11	Nagasaki	
Kumamoto			1		1		2	4	3	1	1	2	1	3						2	1	3	2	2	29	Kumamoto
Oita	2	3	1		1		1	1	1	1		1		1	1		1		1	2		1		19	Oita	
Miyazaki								1	1		1	2	1						1					7	Miyazaki	
Kagoshima	6	2	1				1	1		1	1					1	1	1		1		1		18	Kagoshima	
Okinawa											1		1		1									3	Okinawa	
total	317	322	275		234		203	236	183	207	164	161	155	138	143	148	161	136	141	144	124	147	157	3,896	total	



injury to the sole of the foot																									injury to the sole of the foot
drown							1								1				1					3	drown
contact to high/low-temperature	1																							1	contact to high/low-temperature
contact to harmful substance		1					1											1	3					6	contact to harmful substance
electric shock		1												1										2	electric shock
explosion																									explosion
burst																									burst
fire																									fire
traffic accident (public road)			1																			1		2	traffic accident (public road)
traffic accident (others)																									traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others															1									1	others
unclassifiable																									unclassifiable
total	5	7	3	3	5	2	5	2	3	7	5	5	3	6	3	1	2	2	1	5	1	4	2	82	total























100-299		1	1	2	1	1	1		1	2		3		3	1		1	1		1	1	1		22	100-299
300 workers or more	2	3			1				1	2	2	1	1		1		1		1			1		17	300 workers or more
total	5	7	3	3	5	2	5	2	3	7	5	5	3	6	3	1	2	2	1	5	1	4	2	82	total

Month of fatal accidents in pulp/paper 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			1			2		1			1			1						9	January
February	1				1		1			2							1							6	February
March	1	2			1	1			1		1	1	1											9	March
April													1			1		1		1				4	April
May			1					1			1		1											4	May
June	1	1					1							1	1		1			3			1	10	June
July		1			1				1					3						1			1	8	July
August	1								1	1													1	4	August
September		1										1			1									3	September
October				1		1	1				1											1		5	October
November		2	1		2						1	2											1	9	November
December				1			1	1		2	1			2						1		2		11	December
total	5	7	3	3	5	2	5	2	3	7	5	5	3	6	3	1	2	2	1	5	1	4	2	82	total

Prefecture of fatal accidents in pulp/paper in 1999-2021





Miyazaki																									Miyazaki	
Kagoshima																										Kagoshima
Okinawa																										Okinawa
total	5	7	3	3	5	2	5	2	3	7	5	5	3	6	3	1	2	2	1	5	1	4	2	82	total	

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

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