Fatal and non-fatal accidents in other pulp/paper processing products in Japan in 1999-2022

other pulp/paper processing products industry Code No.010609

Type of accidents in other pulp/paper processing products in 1999-2022

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	2022	total
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	13	416
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	30	510
crash	15	14	5	10	12	12	10	7	6	3	9	8	6	7	8	7	8	2	7	11	12	6	8	12	205
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	2	153
collapse	4	5	5	6	4	3	11	3	2	4	3	4	1	1	5	4	3	5	1	2	1	3	7	1	88
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	8	162
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	57	2,053
cut	12	23	19	13	15	13	13	12	23	14	8	7	14	12	5	17	16	9	13	11	11	6	10	8	304
injury to the sole of the foot				1	1		2			1				1			1			1					8
drown													2												2
contact to high/low-	4	4	5	2	2	2		2	3	2		2	1		4	3	3	1	2	4	4	1	2	1	54

temperature																									
contact to harmful substance		1						1		2									1		1		1		7
electric shock			1														1	1							3
explosion																									
burst								1																	1
fire																								1	1
traffic accident (public road)	2	3			2	2	1	1	2	1	2	4		2			3	2		1	1	2		3	34
traffic accident (others)														1											1
reaction to motion/improper motion	13	13	9	12	10	16	9	19	20	14	8	10	12	17	9	8	15	9	10	15	12	8	13	15	296
others			1			1	1		3		1									1			1	1	10
unclassifiable																								1	1
total	228	263	233	210	237	212	235	205	220	198	150	171	146	158	152	158	159	137	110	157	147	114	156	153	4,309

Causal agents (large) of fatal and non-fatal accidents in other pulp/paper processing products in 1999-2022

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	2022	total
machine	125	148	113	101	111	104	113	91	112	95	69	67	67	76	79	84	73	54	49	71	60	44	65	60	2,031

crane, conveying machine	27	37	35	28	48	41	35	31	37	30	31	29	24	21	15	20	24	25	15	17	31	19	20	23	663
other equipment	22	18	24	24	25	17	24	27	19	25	17	22	14	22	22	18	20	23	13	11	15	14	18	14	468
temporary buildings, establishments	26	28	24	30	27	24	30	20	21	18	17	29	20	19	15	16	16	21	16	28	17	22	22	24	530
substance, material	8	11	9	11	10	8	14	14	10	14	4	14	6	4	6	3	7	4	8	6	10	2	8	10	201
load	10	18	18	13	10	13	11	11	10	10	6	7	8	9	9	11	10	7	6	12	10	7	11	12	249
environment	2		3			1	1	4	2			2	3		3	3	3	1		3	2	2	3	4	42
others	8	3	7	3	6	4	7	7	9	6	6	1	4	7	3	3	6	2	3	9	2	4	9	6	125
total	228	263	233	210	237	212	235	205	220	198	150	171	146	158	152	158	159	137	110	157	147	114	156	153	4,309

Causal agents (middle) of fatal and non-fatal accidents in other pulp/paper processing products in 1999-2022

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	2022	total
engine		1																					1		2
power transmission mechanism	2	5	5	7		3	9	4	6	1	2	1	6	5	2	3	2	3	4	2	2	3	5	1	83
woodworking machine	4	2	3	1	2	1	3		3	1	2		2	3	1	3	2		1	2	1		5	3	45

construction machine		1	1				1	1																	4
metal manufacturing machine	9	6	7	4	5	2	2	1	1	1		2	3	4	1	3		1	2	3	2		1	3	63
general machine	110	133	97	89	104	98	98	85	102	92	65	64	56	64	75	75	69	50	42	64	55	41	53	53	1,834
mobile silviculture machine																									
crane		1	3	4	1	1	3	4	1	2	1			1		1			1		1		2		27
conveying machine	24	35	32	24	46	37	32	25	34	28	29	25	23	18	14	18	21	23	14	15	29	17	18	20	601
vehicle	3	1			1	3		2	2		1	4	1	2	1	1	3	2		2	1	2		3	35
pressure vessel																									
chemical facilities																				1					1
welding equipment															1										1
kiln, caldron	1	1				1		1																	4
electric equipment		1	1		1		1		1				1		1						1		2		10
human power machine, tools	7	3	4	9	9	5	10	6	7	7	6	9	5	9	6	6	6	5	6	1	4	7	5	6	148
tools	8	12	15	12	13	9	11	16	9	17	8	11	7	7	11	7	13	14	4	4	8	6	9	7	238
other equipments,																									

facilities	6	1	4	3	2	2	2	4	2	1	3	2	1	6	3	5	1	4	3	5	2	1	2	1	66
temporary buildings, establishments	26	28	24	30	27	24	30	20	21	18	17	29	20	19	15	16	16	21	16	28	17	22	22	24	530
hazards, harmful substances	2	1	3	1				2		2		1							1		1		1	1	16
materials	6	10	6	10	10	8	14	12	10	12	4	13	6	4	6	3	7	4	7	6	9	2	7	9	185
load	10	18	18	13	10	13	11	11	10	10	6	7	8	9	9	11	10	7	6	12	10	7	11	12	249
natural environment	2		3			1	1	4	2			2	3		3	3	3	1		3	2	2	3	4	42
other causal agent	2	1	3	1		1	4	1	2	1	1		1			1			1	1			3	1	25
no causal agent	5	2	4	2	6	3	3	6	7	5	5	1	3	7	2	2	6	2	2	8	2	4	6	4	97
unclassifiable	1														1									1	3
total	228	263	233	210	237	212	235	205	220	198	150	171	146	158	152	158	159	137	110	157	147	114	156	153	4,309

Causal agents (small) of fatal and non-fatal accidents in other pulp/paper processing products in 1999-2022

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	2022	total
engine																							1		1
power transmission mechanism			5				9	4	6	1	2	1	6	5	2	3	2	3	4	2	2	3	5	1	66

circular sawing machine			2		2		3		2	1	1		1	2	1	3	2		1	1			4	3	29
band sawing machine													1												1
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines			1						1		1			1						1	1		1		7
leveling, transporting or loading machine			1																						1
excavating machine							1	1																	2
foundation work machine																									
hardening machine																									

demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe			1											1											2
drill press, milling machine																									
grinding machine, buffing machine																				1					1
power press			2		2							1		1		2			1				1		10
forging pressure hammer																									
shearing machine			2		1		1		1	1			2	1	1	1		1		1	1			2	16
other metal manufacturing machines			2		2		1	1				1	1	1					1	1	1			1	13
centrifugal machine								1					1												2
mixer, grinder			3		3								1	1	3		1		1						13
roll machine (except printingroll machine)			14		12		31	14	16	14	13	17	14	13	9	17	14	8	8	7	10	10	9	10	260

injection molding machine					2				2			1													5
food manufacturing machine			1							2															3
printing machine			13		18		14	12	18	16	7	5	5	15	12	12	8	5	5	13	5	4	6	4	197
industrial robot								1			1							1		1				1	5
other general power machines			66		69		53	57	66	60	44	41	35	35	51	46	46	36	28	43	40	27	38	38	919
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane			1					2			1								1						5
mobile crane														1									1		2
derrick crane																									
elevator, lift			2				2	1	1	2						1					1		1		11
cargo lifting appliance																									
gondola								1																	1

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane					1		1																		2
truck			6		10		8	5	6	10	5	6	4	9	5	3	9	7	3	4	8	7	7	6	128
forklift			12		16		7	9	18	10	13	8	10	4	7	8	7	10	8	4	15	5	9	8	188
railway equipment								1																	1
conveyor			14		18		16	9	8	8	9	9	9	4	2	6	5	6	2	6	5	3	1	3	143
loader												1				1									2
straddle carrier																									
rough terrain hauler																									
other powered conveying machines					2		1	1	2		2	1		1					1	1	1	2	1	3	19
cars, bus, motorcycle					1			2	2		1	4	1	2	1		3	2		2	1	2		3	27
railway vehicle																									
other vehicles																1									1
boiler																									

pressure vessel																									
other pressure vessels																									
chemical facilities																				1					1
gas welding equipment																									
arc welding equipment																									
other welding equipment															1										1
kiln, caldron								1																	1
industrial dryer																									
other kiln, caldron																									
transmission			1				1														1		2		5
electric power facilities					1				1																2
other electrical equipment													1		1										2
human power cranes																				1	1		2		4
human power hauling equipment			1		4		8	4	2	4	4	6	3	5	1	2	3	5	4		1	2	1	3	63

human power machine								1		1		1		1	1							1			6
hand tool			3		5		2	1	5	2	2	2	2	3	4	4	3		2		2	4	2	3	51
ladder			3		8		5	7	3	4	4	2	2	1	6	3	5	7		2	2	2	5	2	73
slinging tool			1							1					1			2							5
other tools			11		5		6	9	6	12	4	9	5	6	4	4	8	5	4	2	6	4	4	5	119
other equipment, facilities			4		2		2	4	2	1	3	2	1	6	3	5	1	4	3	5	2	1	2	1	54
scaffolding									1							1								1	3
timbering																									
stairs, landing stage			9		8		6	4	3	2	3	5	5	2	2	5	1	4	4	3	4	5	5	4	84
opening								2	1	1		1				1		1			1			1	9
roof, beam, haze, crossbeam, principal rafter							1		1		1	1						1							5
working platform, boot board			5		4		7	4	4	3	1	10	1	5	4	1	7	2	1	4	1	2	2	4	72
passage			8		10		11	3	7	11	11	8	6	8	6	5	4	11	9	15	10	12	9	7	171
building, establishment			1		4		3	4	2	1	1	3	3	4	3	2	3	1	2	2	1	1	2	3	46
other temporary buildings,			1		1		2	3	2			1	5			1	1	1		4		2	4	4	32

establishments																									
explosive substance																									
inflammable substance								1		1														1	3
inflammable gas																									
harmful substance			2					1											1				1		5
radiation																									
other hazards, harmful substances			1							1		1									1				4
metal material			1		3		5	1	5	1	2	8	3			1	1	1	1	1	1	1		2	38
lumber, bamboo			2		2		1	1		3		1		2	1		1		2	2			1	2	21
stone, sand, substance							1		1								1								3
other materials			3		5		7	10	4	8	2	4	3	2	5	2	4	3	4	3	8	1	6	5	89
load			15		9		11	9	10	10	6	6	7	9	9	9	10	7	6	11	10	7	11	12	184
machine/equipment as load			3		1			2				1	1			2				1					11
natural ground, rock																									
standing tree																									
water													2				1			1					4
abnormal																									

environment																									
high/cold temperature environment			1					1	2			1	1		2	2	2	1		2		2	2	1	20
other environments			2				1	3				1			1	1					2		1	3	15
other causal agent			3				4	1	2	1	1		1			1			1	1			3	1	20
no causal agent			4		6		3	6	7	5	5	1	3	7	2	2	6	2	2	8	2	4	6	4	85
unclassifiable															1									1	2
total	228	263	233	210	237	212	235	205	220	198	150	171	146	158	152	158	159	137	110	157	147	114	156	153	4,309

Workers age of fatal and non-fatal accidents in other pulp/paper processing products in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
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	3	114
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	12	738
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	25	935
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	48	959
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	39	984
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	26	579
total	228	263	233	210	237	212	235	205	220	198	150	171	146	158	152	158	159	137	110	157	147	114	156	153	4,309

Workers' number of workplace of fatal and non-fatal accidents in other pulp/paper processing products in 1999-2022

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	2022	total
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	15	739
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	56	1,362
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	24	825
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	30	781
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	24	503
300 workers or more	12	6	8	3	3	9	4	7	8	5		4	3	2	2	2	2		3	3	5		4	4	99
total	228	263	233	210	237	212	235	205	220	198	150	171	146	158	152	158	159	137	110	157	147	114	156	153	4,309

Month of fatal and non-fatal accidents in other pulp/paper processing products in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	19	20	19	22	14	18	22	17	19	19	12	17	10	17	13	15	9	12	11	15	6	13	18	11	368
February	17	35	19	11	19	12	16	21	25	23	13	17	12	14	14	6	12	9	10	12	10	6	6	11	350
March	12	23	29	23	21	18	24	15	19	14	11	12	12	14	17	14	15	14	8	12	17	9	13	11	377
April	24	26	20	17	16	19	13	9	18	15	11	11	12	18	12	17	13	9	6	11	13	11	17	12	350
May	23	16	17	11	20	22	14	14	17	22	12	20	9	8	15	11	15	10	4	12	10	7	8	15	332
June	19	21	27	17	27	22	25	13	23	18	14	10	16	12	14	14	13	6	7	12	14	5	13	13	375

July	20	17	19	14	28	24	23	25	23	12	13	8	9	16	5	8	16	10	14	18	10	16	11	20	379
August	20	31	17	21	18	16	17	23	13	3	9	16	17	9	10	14	14	14	8	11	11	7	16	10	345
September	21	20	20	24	24	14	21	21	14	14	15	14	13	12	17	13	7	11	10	9	15	8	13	20	370
October	17	11	16	19	19	12	21	16	15	22	16	13	13	12	10	13	16	16	9	16	15	17	14	12	360
November	24	19	15	12	20	17	20	22	15	19	6	16	11	13	10	15	17	13	11	14	11	8	14	11	353
December	12	24	15	19	11	18	19	9	19	17	18	17	12	13	15	18	12	13	12	15	15	7	13	7	350
total	228	263	233	210	237	212	235	205	220	198	150	171	146	158	152	158	159	137	110	157	147	114	156	153	4,309

Prefecture of fatal and non-fatal accidents in other pulp/paper processing products in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	5	6	2		4		3	1	2			1	1	1	1		2	2	1	2	1	4	1	3	43
Aomori	1				1					2	1	1		2	1	2				2					13
Iwate		2	1		1		1		1		1	3		1	2	3	1	1		1	2		2	1	24
Miyagi	1	4	3		3		1	5	4	2	1	2	2	1		1	1		1	1		1		2	36
Akita	1		1		1			1					1	1	1		1						1	1	10
Yamagata	2	3	1						1						2						1				10
Fukushima	2	5	2		2		3	6	6	2	1	3		2	2	2	1	1	2		1		1	2	46
Ibaraki	7	15	9		5		9	4	9	9	3	8	8	6	3	5	9	6	3	10	7	1	6	4	146
Tochigi	7	9	5		12		7	7	8	18	10	6	5	4	8	4	8	7	8	8	7	8	8	7	171
Gunma	9	8	4		5		5	7	8		5	5	5	5	1	5	6	5	4	6	4	2	4	1	104

Saitama	22	45	27		27		24	26	24	27	16	24	13	23	23	18	13	23	11	3	16	11	21	20	457
Chiba	9	6	4		6		3	4	4	4	1	3	7	7	4	4	5	5	3	4	2	3	8	5	101
Tokyo	9	10	6		9		8	16	11	5	8	6	5	5	5	4	4	3	3	3	5	4	6	2	137
Kanagawa	5	7	8		11		6	7	7	13	1	3	6	7	3	7	3	8	9	7	7	2	3	4	134
Niigata	6	3	6		3		3	2	2	5	1	3	3	2		1	1	1	3	5	5	4	5		64
Toyama	4	5	3		2		3	1	3	4	1	1	3	4	4		2	1	1		3	1	2	1	49
Ishikawa	2	1	2		2						1	1	3		1	1	1			2				2	19
Fukui	3	2	4		1		2	5	3	1		2	2	2	1	3	1	3	1	1	1			2	40
Yamanashi	6	4	3		2		2		1	2	1	1	1	2		1		1							27
Nagano	3		5		1		1	1	2		2	1			2	1	1	1		1	1	1	1		25
Gifu	14	12	10		6		4	7	5	6	7	8	4	5	4	7	7	4	8	10	6	7	9	7	157
Shizuoka	13	17	22		19		29	16	18	24	21	7	9	16	12	16	23	12	9	10	16	17	12	11	349
Aichi	27	21	17		20		14	16	20	10	10	20	17	10	5	9	11	8	8	12	4	8	6	10	283
Mie	1	1	4		3		3	3	9	2	1	2	2	1	8	2	2		2	4	6	1	3	2	62
Shiga		2	7		1		6	11	7	5	4	7	3	4	2	2		2		3	1	2	1	3	73
Kyoto	3	1	3		3		3	1	1	5	2	3	6	2	1	5		1	1	2	1	1	4	5	54
Osaka	22	31	38		22		34	16	20	13	20	14	11	12	10	15	24	14	10	15	9	9	19	21	399
Hyogo	6	5	4		23		9	9	11	10	7	7	4	9	9	11	10	6	6	16	14	7	7	8	198
Nara		1			4			3	4	2		4	2	1	3		3	2	2	1		3	1	2	38
Wakayama			2		2																	1		1	6
Tottori	2	1	2				1													1					7

Shimane	1	1	1																			1			4
Okayama	4	1			3		2		2	2	4	2	3	1	2	1	2	3	1	1	4	2	1	3	44
Hiroshima	4	1	3		1		6	2	1	3	3	1	1	3	8				1	2	2		3	6	51
Yamaguchi	1	2	1		4		1			1	1				1	1				1			1		15
Tokushima	2	3			6		1	2			2	1		2	1	4	1	2	1		5	2		1	36
Kagawa	9	15	11		8		19	10	16	11	7	8	5	7	10	5	7	4	5	7	8	5	11	6	194
Ehime		1			1		3	1		1		1			3	5	1	1	2	3	3	1	1	2	30
Kochi	2				2		6	7	3	1	1	2	3	2	2	5	1	7	3	3		2	3	2	57
Fukuoka	8	8	4		6		8	1	3	4	3	5	3	2	3	4	3	2		2	3	2	3	4	81
Saga	1	1	2				1	3	1		2	2	5	3		1			1	1			1	1	26
Nagasaki								1				1					1						1		4
Kumamoto	2	1	1		1		2	1	2					1			1	1		4	1	1			19
Oita	2	1	3		2		1	1					1	1						2					14
Miyazaki		1	1		1		1			4	1	2	2	1	2	2	2			1					21
Kagoshima			1						1						2	1					1			1	7
Okinawa					1			1																	2
total	228	263	233	210	237	212	235	205	220	198	150	171	146	158	152	158	159	137	110	157	147	114	156	153	4,309

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

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.html (MHLW, Japan)

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Fatal accidents in other pulp/paper processing products in Japan in 1999-2022

other pulp/paper processing products industry Code No.010609

Type of fatal accidents in other pulp/paper processing products in 1999-2022

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	2022	total
fall from height												1			1	1	1				1				5
falling to same level																									
crash																									
struck by flying or falling object					1													1						1	3
collapse																									
crashed by			2			1																			3
caught in/between		1			3	1	1	1			1				1	4							1		14
cut																									
injury to the sole of the foot																									

drown													2												2
contact to high/low-temperature									1																1
contact to harmful substance																									
electric shock																			1						1
explosion																									
burst																									
fire																									
traffic accident (public road)																									
traffic accident (others)																									
reaction to motion/improper motion																									
others																									
unclassifiable																									
total		1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1		1	1	29

Causal agents (large) of fatal accidents in other pulp/paper processing products in 1999-2022

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	2022	total
machine		1			3		1	1			1				1	3			1				1		13
crane, conveying machine			1			1										2								1	5
other equipment																		1							1
temporary buildings, establishments												1					1				1				3
substance, material			1																						1
load					1	1									1										3
environment									1				2												3
others																									
total		1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1		1	1	29

Causal agents (middle) of fatal accidents in other pulp/paper processing products in 1999-2022

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	2022	total
engine																									
power transmission mechanism		1														1									2

woodworking machine																									
construction machine																									
metal manufacturing machine																									
general machine					3		1	1			1				1	2			1				1		11
mobile silviculture machine																									
crane																1									1
conveying machine			1			1										1								1	4
vehicle																									
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools																		1							1
other equipments,																									

facilities																									
temporary buildings, establishments												1					1				1				3
hazards, harmful substances			1																						1
materials																									
load					1	1									1										3
natural environment									1				2												3
other causal agent																									
no causal agent																									
unclassifiable																									
total		1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1		1	1	29

Causal agents (small) of fatal accidents in other pulp/paper processing products in 1999-2022

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	2022	total
engine																									
power transmission mechanism		1														1									2

circular sawing machine																									
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines																									
leveling, transporting or loading machine																									
excavating machine																									
foundation work machine																									
hardening machine																									

demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe																									
drill press, milling machine																									
grinding machine, buffing machine																									
power press																									
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines																									
centrifugal machine																									
mixer, grinder								1																	1
roll machine (except printingroll machine)																1									1

injection molding machine																									
food manufacturing machine																									
printing machine					1																				1
industrial robot																									
other general power machines					2		1				1				1	1			1				1		8
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane																									
derrick crane																									
elevator, lift																1									1
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck																									
forklift			1			1																		1	3
railway equipment																									
conveyor																1									1
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle																									
railway vehicle																									
other vehicles																									
boiler																									

pressure vessel																									
other pressure vessels																									
chemical facilities																									
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									
transmission																									
electric power facilities																									
other electrical equipment																									
human power cranes																									
human power hauling equipment																									

human power machine																									
hand tool																									
ladder																									
slinging tool																		1							1
other tools																									
other equipment, facilities																									
scaffolding																									
timbering																									
stairs, landing stage																									
opening																					1				1
roof, beam, haze, crossbeam, principal rafter																									
working platform, boot board												1					1								2
passage																									
building, establishment																									
other temporary buildings,																									

establishments																									
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance			1																						1
radiation																									
other hazards, harmful substances																									
metal material																									
lumber, bamboo																									
stone, sand, substance																									
other materials																									
load					1	1									1										3
machine/equipment as load																									
natural ground, rock																									
standing tree																									
water													2												2
abnormal																									

environment																									
high/cold temperature environment									1																1
other environments																									
other causal agent																									
no causal agent																									
unclassifiable																									
total		1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1		1	1	29

Workers age of fatal accidents in other pulp/paper processing products in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less																									
20-29									1							2									3
30-39					1											1								1	3
40-49							1	1				1				1			1				1		6
50-59			2		1	1					1					1									6
60 years old or more		1			2	1							2		2		1	1			1				11
total		1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1		1	1	29

Workers' number of workplace of fatal accidents in other pulp/paper processing products in 1999-2022

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	2022	total
9 workers or less		1			1	1									2	2			1				1		9
10-29					2				1				1			1	1	1							7
30-49			1		1		1	1				1	1												6
50-99											1										1			1	3
100-299			1			1										2									4
300 workers or more																									
total		1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1		1	1	29

Month of fatal accidents in other pulp/paper processing products in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January					1			1								1								1	4
February						1									1										2
March			1									1	2			2		1							7
April							1									1									2
May					1																				1
June						1									1										2

July					1				1										1						3
August			1																						1
September											1						1						1		3
October					1											1					1				3
November		1																							1
December																									
total		1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1		1	1	29

Prefecture of fatal accidents in other pulp/paper processing products in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido						1																			1
Aomori																									
Iwate																									
Miyagi							1						2												3
Akita			1																						1
Yamagata																									
Fukushima																									
Ibaraki																					1				1
Tochigi		1														1									2
Gunma								1																	1

Saitama					1											1	1								3
Chiba																									
Tokyo															1										1
Kanagawa																									
Niigata																									
Toyama																									
Ishikawa																									
Fukui																									
Yamanashi																1									1
Nagano																									
Gifu																									
Shizuoka					1											1		1					1	1	5
Aichi					1										1										2
Mie																									
Shiga																									
Kyoto					1																				1
Osaka			1													1			1						3
Hyogo						1																			1
Nara																									
Wakayama																									
Tottori											1														1

Shimane																									
Okayama												1													1
Hiroshima																									
Yamaguchi																									
Tokushima																									
Kagawa																									
Ehime																									
Kochi																									
Fukuoka																									
Saga																									
Nagasaki																									
Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima									1																1
Okinawa																									
total		1	2		4	2	1	1	1		1	1	2		2	5	1	1	1		1		1	1	29

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

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