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

paper processing products industry Code No.010602

Type of accidents in 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	54	55	63	74	43	57	55	53	53	46	40	42	41	44	42	44	47	50	46	37	59	41	51	1,137	fall from height
falling to same level	73	77	83	70	78	54	76	62	60	77	56	54	52	67	54	45	60	54	61	79	56	69	64	1,481	falling to same level
crash	29	33	38	29	27	31	28	33	21	16	20	18	18	17	11	17	14	24	21	17	25	19	23	529	crash
struck by flying or falling object	33	39	31	35	22	27	23	15	25	21	15	20	17	21	16	11	16	10	16	18	12	17	13	473	struck by flying or falling object
collapse	13	10	12	13	15	8	14	14	19	17	8	7	4	8	7	7	7	7	3	8	8	7	6	222	collapse
crashed by	33	25	32	40	40	27	30	25	23	31	15	21	24	26	11	15	18	15	13	18	13	21	17	533	crashed by
caught in/between	434	417	408	405	429	372	299	330	347	312	256	272	248	263	254	250	209	236	243	214	218	196	212	6,824	caught in/between
cut	49	50	56	55	52	44	50	44	39	34	36	35	34	34	29	20	23	34	18	23	28	23	19	829	cut
injury to the sole of the foot					1		1	1			1		1		1	1		1	1	1		1	1	12	injury to the sole
drown													1											1	drown
contact to high/low- temperature	6	7	8	6	4	5	3	4	5	4	5	7	7	7	6	2	3	3	9	7	4	9	7	128	contact to high/low- temperature

contact to harmful substance	1	1	1	2	1	4	2		2		1	4			2	2		2	1		5	1		32	contact to harmful substance
electric shock			1	1	1			1										1		1				6	electric shock
explosion						3													1	1				5	explosion
burst			1						1															2	burst
fire				1					1			1				1		1						5	fire
traffic accident (public road)	4	3	8	9	2	4	3	3	7	4	1	6	4	5	7	4		5	3	1	1	2	3	89	traffic accident (public road)
traffic accident (others)	1	1	1												1	1				2				7	traffic accident (others)
reaction to motion/improper motion	46	34	32	35	32	46	38	34	41	34	30	36	38	42	39	36	37	30	32	36	45	37	51		reaction to motion/improper motion
others	1	2				2		1	1	1	1	1			1			1	1	1		5	22	41	others
unclassifiable	2	1		1	1	1		1		1	1			1		1	1		1	1				14	unclassifiable
total	779	755	775	776	748	685	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	13,231	total

Causal agents (large) of fatal and non-fatal accidents in paper processing products in 1999-2021

Causal (L) agents 1999	9 200	20	200	2 2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (L)
machine 432	406	5 40	424	418	376	313	332	341	306	262	276	243	263	246	235	207	239	234	204	206	195	212		machine
crane, conveying																								crane,

machine	109	113	117	115	116	85	86	84	91	85	75	65	63	68	66	64	53	74	62	70	75	76	69	1,881	conveying
Пасппе																									machine
other equipment	61	71	88	66	64	69	60	66	65	69	42	59	57	65	52	44	43	51	59	52	58	57	58	1,376	other
other equipment	01	/ 1	00	00	04	09	00	00	03	09	42	39	37	03		44	43	וכ	39	32	36		36	1,370	equipment
to manage my buildings																									temporary
temporary buildings, establishments	78	73	78	76	68	67	71	57	57	66	45	50	53	58	49	58	65	57	53	63	70	58	56	1,426	buildings,
establistifferits																									establishments
substance, material	30	42	32	37	36	37	27	34	34	18	19	22	23	23	23	15	23	22	19	25	17	14	24	596	substance,
substance, material	30	42	32	37	30	37		34	34	10	19	22	23	23			23	22		23	'		24	390	material
load	44	24	41	38	27	31	40	30	37	31	24	36	28	35	21	17	24	18	25	23	25	25	24	668	load
environment	2	1	5	4	3	4	3	3	3	4	1	8	3	6	4	7	4	3	5	7	5	7	5	97	environment
others	23	25	13	16	16	16	22	15	17	19	18	8	19	17	20	17	16	10	13	21	18	16	41	416	others
total	779	755	775	776	748	685	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	13,231	total

Causal agents (middle) of fatal and non-fatal accidents in paper processing products 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)
engine												1				1	1		2					5	engine
power transmission mechanism	17	15	12	13	15	19	12	14	4	11	7	2	9	11	10	9	10	5	4	7	4	5	7	222	power transmission mechanism
woodworking machine	2	1	4	2	4	3	3	5	3		1	3	4	4	3	1	1	3	1	2	2	3		55	woodworking machine
																									construction

construction machine	1		1											1										3	machine
metal manufacturing machine	28	22	18	13	16	8	10	17	9	9	10	13	12	6	8	9	7	12	6	4	8	8	4	257	metal manufacturing machine
general machine	384	368	366	396	383	346	288	296	325	286	244	257	218	241	225	215	188	219	221	191	192	179	201	6,229	general machine
mobile silviculture machine																									mobile silviculture machine
crane	3	4	9	7	12	5	3	3	5	2	4	1	2	5	2	2	2	2	2	3	5	3		86	crane
conveying machine	103	105	98	100	101	76	83	77	81	78	70	59	57	59	58	58	49	66	58	66	70	71	67	1,710	conveying machine
vehicle	3	4	10	8	3	4		4	5	5	1	5	4	4	6	4	2	6	2	1		2	2	85	vehicle
pressure vessel			1		1								1					1					1	5	pressure vessel
chemical facilities		1																	2					3	chemical facilities
welding equipment																									welding equipment
kiln, caldron							1		1	1				1										4	kiln, caldron
electric equipment			2	2	2		2					1			1	1	1	1						13	electric equipment
human power machine, tools	11	23	33	19	28	29	21	20	19	20	15	18	14	23	13	10	11	21	12	12	20	15	11	418	human power
tools	43	30	39	37	28	27	29	43	33	36	24	29	35	29	33	26	23	23	36	33	29	37	37	739	tools

other equipments,																									other
facilities	7	17	13	8	5	13	7	3	12	12	3	11	7	12	5	7	8	5	9	7	9	5	9	194	equipments,
lacincies																									facilities
temporary buildings,																									temporary
establishments	78	73	78	76	68	67	71	57	57	66	45	50	53	58	49	58	65	57	53	63	70	58	56	1,426	buildings,
establistiments																									establishments
hazards, harmful																									hazards,
substances	5		4	3	1	4	2		2	1	1	5	3		5	3		4	3		5	3	1	55	harmful
substances																									substances
materials	25	42	28	34	35	33	25	34	32	17	18	17	20	23	18	12	23	18	16	25	12	11	23	541	materials
load	44	24	41	38	27	31	40	30	37	31	24	36	28	35	21	17	24	18	25	23	25	25	24	668	load
			_																					0.7	natural
natural environment	2	1	5	4	3	4	3	3	3	4		8	3	6	4		4	3	5	7	5		5	97	environment
																							22	0.4	other causal
other causal agent	5	5	3	2	3	3	2	4	2	4	4	2	2	3	3				2	3	4	4	23	84	agent
														1.0											no causal
no causal agent	15	17	9	13	12	13	20	10	15	14	13	5	17	12	16	15	14	10	11	16	14	12	18	311	agent
unclassifiable	3	3	1	1	1			1		1	1	1		2	1	1	2			2				21	unclassifiable
total	779	755	775	776	748	685	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	13,231	total

Causal agents (small) of fatal and non-fatal accidents in 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												1				1	1		2					5	engine

power transmission mechanism		12	15	12	14	4	11	7	2	9	11	10	9	10	5	4	7	4	5	7	158	power transmission mechanism
circular sawing machine		3	2	2	4	3		1	3	2	3	1	1	1	2		2	1	3		34	circular sawing machine
band sawing machine			1							1											2	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		1																			1	chamfering machine, router, woodworking milling machine
chain saw																						chain saw
other woodworking machines			1	1	1					1	1	2			1	1		1			10	other woodworking machines
leveling, transporting or loading machine		1									1										2	leveling, transporting or loading machine
excavating machine																						excavating machine
foundation work																						foundation work
hardening machine																						hardening machine

					1	1			1	1	1	1	1	1	1		1					
demolition machine																						demolition machine
vehicle for high lift																						vehicle for high lift
work																						work
other construction																						other construction
machines																						machines
lathe				1				1	1						2	1					6	lathe
drill press, milling				1																		drill press, milling
machine				I					2												6	machine
grinding machine,		1	2		1		1	1				2						1			9	grinding machine,
buffing machine		<u> </u>	2					'													-	buffing machine
power press		6	1	1	3	3	1	2	1	5	1	3	2	1	3			2	4		39	power press
forging pressure		1																			1	forging pressure
hammer																					I	hammer
shearing machine		5	10	3	7	4	3	4	6	4	5	3	4	6	4	5	3	3	4	4	87	shearing machine
other metal																						other metal
manufacturing		5	3	4	5	2	3	2	3	2			3		3		1	2			38	manufacturing
machines																						machines
centrifugal machine																						centrifugal machine
mixer, grinder		2	2		1		2	2			1	2			1	1	2	3	2	4	25	mixer, grinder
roll machine (except																						roll machine (except
printingroll		49	66	57	55	51	55	38	44	30	45	38	42	35	41	40	29	29	33	35	812	printingroll
machine)																						machine)
injection molding		1		2	1			1					1				1	1			8	injection molding
machine				2	'			∥'					'				'	'				machine

food manufacturing machine		1			1		1														3	food manufacturing machine
printing machine		49	57	41	57	55	41	38	45	40	46	46	39	31	34	44	27	30	20	32	772	printing machine
industrial robot				1	1	1	1	2	2		1								1		10	industrial robot
other general power machines		264	258	187	180	218	186	163	166	148	148	139	133	122	143	136	132	129	123	130	3,105	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		2	2	1	1	1	1	1		2	2			2			2	4			21	crane
mobile crane																						mobile crane
derrick crane																						derrick crane
elevator, lift		7	8	2	2	4		2			2		1			2	1	1	2		34	elevator, lift
cargo lifting appliance																						cargo lifting appliance
gondola																						gondola
lumberyard equipment, logging cableway simple skyline																						lumberyard equipment, logging cableway simple skyline
Simple skyllile																						эниріс экуппе

yarding equipment																						yarding equipment
other powered crane			2				1	1	1		1	2	1		2				1		12	other powered crane
truck		17	11	15	21	15	14	10	11	7	10	16	10	10	20	16	25	16	19	20	283	truck
forklift		42	60	43	33	42	39	33	26	30	33	16	27	28	24	22	22	32	29	28	609	forklift
railway equipment							2			1							1		1		5	railway equipment
conveyor		33	28	19	21	20	23	23	18	15	15	26	19	6	20	18	13	19	19	18	373	conveyor
loader			1							1				1							3	loader
straddle carrier																						straddle carrier
rough terrain hauler																						rough terrain hauler
other powered conveying machines		6	1	6	2	4		4	4	3	1		2	4	2	2	5	3	3	1	53	other powered conveying machines
cars, bus, motorcycle		10	3		4	5	4	1	5	4	4	6	4	2	6	2	1		2	2	65	cars, bus, motorcycle
railway vehicle																						railway vehicle
other vehicles							1														1	other vehicles
boiler																				1	1	boiler
pressure vessel		1													1						2	pressure vessel
other pressure vessels			1							1											2	other pressure vessels
chemical facilities																2					2	chemical facilities
gas welding equipment																						gas welding equipment
arc welding																						arc welding

equipment																						equipment
other welding																						other welding
equipment																						equipment
kiln, caldron				1		1	1														3	kiln, caldron
industrial dryer											1										1	industrial dryer
other kiln, caldron																						other kiln, caldron
transmission		1	2	1								1	1		1						7	transmission
electric power																						electric power
facilities																						facilities
other electrical		1		1					1					1							4	other electrical
equipment		ľ		'																	11 .	equipment
human power													1			1		1		3	6	human power
cranes																				3	II	cranes
human power		12	13	8	9	12	8	9	9	9	12	5	6	7	11	5	8	13	8	3	167	human power
hauling equipment			.5			12																hauling equipment
human power		5				1	1	2			2			1	1	1	1	2	1		18	human power
machine						<u> </u>	<u> </u>									'						machine
hand tool		16	15	13	11	6	11	4	9	5	9	8	3	3	9	5	3	4	6	5	145	hand tool
ladder		14	13	12	14	14	13	8	11	14	15	13	14	13	6	15	10	13	8	9	229	ladder
slinging tool					2		1							1							4	slinging tool
other tools		25	15	17	27	19	22	16	18	21	14	20	12	9	17	21	23	16	29	28	369	other tools
other equipment,		13	5	7	3	12	12	2	11	7	12	5	7	8	5	9	7	9	5	9	149	other equipment,
facilities		13) 	/	3	12	12	3	11	/	12)		8	3	9		9	3	9	149	facilities
scaffolding				2									1					1		1	5	scaffolding

						<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>	<u> </u>		<u> </u>			<u> </u>		<u> </u>	
timbering																						timbering
stairs, landing stage		14	8	10	12	15	16	11	12	12	9	7	13	19	6	10	10	15	16	9	224	stairs, landing stage
opening			1	1		1	1	2	1	2	2		1		1				1	1	15	opening
roof, beam, haze,																						roof, beam, haze,
crossbeam,		1	1	1	1	1		1				1	1		1	1	1			1	12	crossbeam,
principal rafter																						principal rafter
working platform,		20	1.5	1.0	16		9	11		7	10		10	1.5	1.4			1.5		9	215	working platform,
boot board		20	15	16	16	8	9	11	9		10	9	10	15	14	9	4	15	9	9	215	boot board
passage		27	30	27	18	15	29	13	21	20	23	21	15	20	21	23	35	28	22	25	433	passage
building,			_																		100	building,
establishment		8	5	11	7	9	5	2	4	5	5		4	6	3	4	8	6	3	/	109	establishment
other temporary																						other temporary
buildings,		8	8	3	3	8	6	5	3	7	9	4	13	5	11	6	5	5	7	3	119	buildings,
establishments																						establishments
explosive substance																						explosive substance
inflammable																					II	inflammable
substance									ľ			3									6	substance
inflammable gas										1					1				1	1	4	inflammable gas
harmful substance		1				1			3			2	2		1	1					11	harmful substance
radiation																						radiation
other hazards,			1			1		1													22	other hazards,
harmful substances		2	ı	2		I		I		2					2	2		5	2		22	harmful substances
metal material		9	9	3	12	8	5	5	5	3	4	5	1	4	5	4	5	3	5	7	102	metal material
lumber, bamboo		5	3	1	2	5	1			3	2	2	1	1	6	3	2	2	1	2	42	lumber, bamboo

	 	 	ـــــاا]			
stone, sand, substance				1													1				2	stone, sand, substance
other materials	14	23		20	20	19	11	13	12	14	17	11	10	18	7	9	17	7	5	14	261	other materials
load	40	24		40	28	36	28	24	32	25	33	20	17	24	17	24	21	25	25	23	506	load
machine/equipment as load	1	3			2	1	3		4	3	2	1			1	1	2			1	25	machine/equipment as load
natural ground,	1	1		1											1						4	natural ground, rock
standing tree										1			1					1			3	standing tree
water	1									1			1								3	water
abnormal environment																						abnormal environment
high/cold temperature environment	1	1			1	2	1	1	6	1	3	2		3	1	4	5	4	6	3	45	high/cold temperature environment
other environments	2	1		2	2	1	3		2		3	2	5	1	1	1	2		1	2	31	other environments
other causal agent	3	3		2	4	2	4	4	2	2	3	3	1			2	3	4	4	23	69	other causal agent
no causal agent	9	12		20	10	15	14	13	5	17	12	16	15	14	10	11	16	14	12	18	253	no causal agent
unclassifiable	1	1			1		1	1	1		2	1	1	2			2				14	unclassifiable
total	775	748		622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	10,236	total

Workers age of fatal and non-fatal accidents in paper processing products in 1999-2021

	1000	000 20	200	2 2002	2004	2005	2006 20	200	2000	2010	2011	2012	2012	2014	2015	2016	2017	2010	2010	2020	2021			
Age	1999 2	000 20	001 200	2 2003	2004	2005	2006 20	007 200	8 2009	/ () ()	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	totai	Age	

19 years old or less	26	27	36	28	25	22	30	13	21	17	16	18	17	8	12	19	11	12	18	15	19	8	17	435	19 years old or less
20-29	182	192	182	150	171	154	115	137	128	114	86	97	88	93	88	85	78	91	88	65	77	63	87	2,611	20-29
30-39	133	155	129	166	160	146	149	159	164	130	114	118	108	133	110	102	81	100	81	98	91	74	85	2,786	30-39
40-49	150	124	151	148	142	127	104	115	117	130	102	102	117	116	115	100	112	113	111	118	91	106	115	2,726	40-49
50-59	221	181	208	208	177	163	151	129	134	118	91	116	91	99	85	84	82	88	94	94	123	106	104	2,947	50-59
60 years old or more	67	76	69	76	73	73	73	68	81	89	77	73	68	86	71	67	71	70	78	75	73	91	81	1,726	60 years old or more
total	779	755	775	776	748	685	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	13,231	total

Workers' number of workplace of fatal and non-fatal accidents in 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	129	129	118	116	131	124	89	87	94	74	59	68	66	70	75	53	63	57	60	60	40	45	62	1,869	9 workers or less
10-29	267	250	259	277	254	226	213	205	216	205	170	170	134	164	157	154	124	146	136	137	134	125	132	4,255	10-29
30-49	152	164	163	155	159	147	151	140	133	108	96	122	92	114	90	86	91	98	103	85	112	88	95	2,744	30-49
50-99	127	129	137	142	133	99	89	96	115	114	81	86	110	103	85	90	77	88	86	100	107	107	101	2,402	50-99
100-299	89	71	83	75	66	83	72	86	76	86	75	69	77	71	67	59	66	76	69	71	60	69	70	1,686	100-299
300 workers or	15	12	15	11	5	6	8	7	11	11	5	9	10	13	7	15	14	9	16	12	21	14	29	275	300 workers or
more																									more
total	779	755	775	776	748	685	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	13,231	total

Month of fatal and non-fatal accidents in paper processing products in 1999-2021

January	75	64	69	65	67	80	54	59	50	47	43	57	32	47	37	44	34	47	33	33	45	42	32	1,156	January
Juliadiy										'	1.5			.,		1		''			1.5			1,130	Juliaury
February	56	51	61	63	69	56	48	53	50	49	29	36	31	42	42	40	30	45	35	47	37	28	35	1,033	February
March	72	75	72	51	71	52	51	52	62	56	45	41	39	51	45	39	32	44	32	44	35	38	44	1,143	March
April	64	67	72	62	62	60	37	53	46	54	49	49	48	47	31	44	40	34	53	41	27	42	49	1,131	April
May	65	64	68	67	54	56	50	49	51	44	41	39	34	43	35	32	33	30	33	26	42	42	34	1,032	May
June	54	72	70	59	71	55	57	61	66	53	35	44	54	41	42	38	32	30	46	41	32	34	35	1,122	June
July	67	46	73	86	60	46	55	53	55	64	44	44	40	54	31	52	42	49	37	39	45	35	33	1,150	July
August	51	56	47	62	56	52	70	53	55	40	45	49	41	46	42	33	36	42	35	46	38	37	46	1,078	August
September	81	58	75	68	65	58	39	46	61	44	39	43	55	41	29	29	48	34	34	25	51	36	50	1,109	September
October	68	79	62	64	60	67	59	38	66	62	49	51	51	39	56	34	40	47	41	43	48	25	56	1,205	October
November	59	58	52	68	52	56	51	59	46	50	35	38	33	39	41	29	35	32	54	40	42	37	36	1,042	November
December	67	65	54	61	61	47	51	45	37	35	32	33	31	45	50	43	33	40	37	40	32	52	39	1,030	December
total	779	755	775	776	748	685	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	13,231	total

Prefecture of fatal and non-fatal accidents in 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	15	9	16		6		4	8	14	9	5	7	6	10	15	4	9	11	6	4	7	7	6	178	Hokkaido
Aomori	1	1	3		3		1	3	2	3			4	1	3	5	1	4	3	2	1	3	1	45	Aomori
lwate	3	4	3		2		1	2	2	2		4	1	4	2	4	1	1	2		1	3	1	43	lwate
Miyagi	15	7	7		10		3	7	4	9	3	4	5	3	5	7	2	3	5	3	5	1	6	114	Miyagi
Akita	2	2	2		2		1		1								1	2		1	2	2	1	19	Akita
Yamagata	12	2	10		2		4	2	7	2	5	6	4	4	5	5	2	5	2	4	5	3	7	98	Yamagata

Fukushima	8	14	11	7	4	10	8	9	5	8	8	9	7	7	10	11	6	6	5	4	9	166	Fukushima
Ibaraki	20	20	13	17	13	15	19	21	18	11	11	14	12	11	13	13	10	18	9	14	17	309	Ibaraki
Tochigi	14	11	16	13	14	11	7	8	11	10	12	15	9	12	10	8	10	10	6	11	14	232	Tochigi
Gunma	13	9	8	12	15	11	5	8	8	9	8	8	9	8	7	8	2	9	7	7	6	177	Gunma
Saitama	43	60	47	65	45	50	55	49	36	50	34	47	38	33	36	44	41	48	54	46	50	971	Saitama
Chiba	25	24	34	11	15	20	17	18	19	17	13	8	12	10	7	8	12	5	10	8	18	311	Chiba
Tokyo	30	30	31	35	22	16	18	26	16	22	21	15	17	13	13	11	16	15	7	10	20	404	Tokyo
Kanagawa	40	34	23	38	42	30	18	25	16	25	16	31	19	14	16	19	20	9	10	12	18	475	Kanagawa
Niigata	9	12	8	12	5	7	4	8	8	8	7	9	11	6	9	6	8	4	5	9	11	166	Niigata
Toyama	8	7	6	14	2	13	12	2	7	9	11	8	7	3	7	7	5	3	4	4	10	149	Toyama
Ishikawa	3	8	5	5	6	6	2	6	3	5	2	3	3	2	2	3	2	5	6	3	3	83	Ishikawa
Fukui	5	4	11	4	7	4	1	4	8	6	4	3	10	3	4	4	2	4	4	4	1	97	Fukui
Yamanashi	12	5	9	4	4	12	4	2		2	2	4	2	5	3	4	2	2	1	4	4	87	Yamanashi
Nagano	8	7	10	8	8	13	6	9	10	4	6	6	10	7	8	7	3	7	7	8	4	156	Nagano
Gifu	29	27	22	29	30	19	24	24	14	9	12	24	10	10	16	17	14	11	15	21	13	390	Gifu
Shizuoka	73	71	77	72	59	57	56	60	36	61	35	51	36	44	40	44	42	44	42	40	42	1,082	Shizuoka
Aichi	60	53	47	53	41	37	45	40	30	47	41	42	31	34	42	38	44	42	42	32	48	889	Aichi
Mie	13	14	9	14	16	14	6	14	6	10	3	8	6	6	5	5	7	4	12	5	4	181	Mie
Shiga	9	12	10	24	10	14	13	12	14	8	8	10	10	12	9	8	7	8	10	10	11	229	Shiga
Kyoto	12	28	26	22	14	14	27	15	15	9	16	17	18	13	10	11	19	13	14	7	12	332	Kyoto
Osaka	87	74	94	73	59	57	74	58	47	46	59	53	49	36	35	40	41	41	30	30	43	1,126	Osaka
Hyogo	42	47	40	27	26	25	31	25	25	15	26	26	18	25	20	22	17	24	28	20	20	549	Hyogo
Nara	7	8	13	12	6	13	13	20	13	11	7	8	7	7	13	11	9	10	19	8	17	232	Nara

Wakayama	5	7	2	5	5	8	4	5	10	2	3	4	4	6	5	4	6	9	2	6	4	106	Wakayama
Tottori	3	4	2	2	2	1		1	4	2	1	2	2	1		1		4	3	7	3	45	Tottori
Shimane	5	3	2	2	2	1	3	4			1	1	1	3	1		1	3	1		1	35	Shimane
Okayama	8	12	8	17	13	8	15	8	4	15	9	14	9	14	4	7	9	9	5	11	7	206	Okayama
Hiroshima	11	15	18	9	13	11	15	9	16	6	6	6	12	12	8	7	7	11	10	7	6	215	Hiroshima
Yamaguchi	7	7	5	5	7	8	5	5	2	7	6	5		4	3	2	3	5	4	2	3	95	Yamaguchi
Tokushima	6	6	10	4	3	3	8	4	2	3	2	2	3		2		5	1	4	3	1	72	Tokushima
Kagawa	11	13	11	23	15	9	19	10	9	8	15	8	12	16	7	6	14	7	8	13	8	242	Kagawa
Ehime	42	41	49	42	39	34	34	29	33	24	33	28	26	31	25	30	28	27	36	27	19	677	Ehime
Kochi	16	6	12	10	9	9	9	3	6	5	6	2	1	2	3	12	7	4	2	2		126	Kochi
Fukuoka	18	16	15	16	25	13	18	18	11	7	14	14	13	9	8	15	15	17	17	12	8	299	Fukuoka
Saga	13	4	4	2	1	8	2	8	1	8	4	3	4	2	5	5	5	4	5	13	2	103	Saga
Nagasaki	4	3	3	2	1	1	1			3	1	1	2	2		1	2	1	2		1	31	Nagasaki
Kumamoto	7	5	8	6	3	7	7	3	3	3	1		3	5	6	3	4	2	2	3	2	83	Kumamoto
Oita	1	1	3	1	1	4	4		1	3	3		2	3	4	1	3	1	2	1	3	42	Oita
Miyazaki	2	4	5	1	3	1	4		3		1	1	2		1	1	1		1	2	2	35	Miyazaki
Kagoshima	1	2	5	3	2	4	2	3	3	1	1	2			1	2	2	1	2	1		38	Kagoshima
Okinawa	1	2	2	2	1	1				4		1	4	1	1	2	1	3		2	2	30	Okinawa
total	779	755	775	748	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	11,770	total

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

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

Return to https://www.jisha.or.jp/english/statistics/2021e_industry.html

Fatal accidents in paper processing products in Japan in 1999-2021

paper processing products industry Code No.010602

Type of fatal accidents in 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	1		1		1		1		2				1	1					2		1		3	14	fall from height
falling to same level													2		1		1							4	falling to same level
crash																									crash
struck by flying or																									struck by flying
falling object																									or falling object
collapse																		1						1	collapse
crashed by				1														1			1			3	crashed by
caught in/between	4	2	6	7		3	1	1	1	2	1	3	1	1	1			1	1	1	2	3		42	caught in/between
cut																									cut
injury to the sole of the																									injury to the sole
foot																									of the foot
drown													1											1	drown

contact to high/low-																				1	1		2	contact to
temperature																								temperature
contact to harmful																								contact to
substance																								harmful
																								substance
electric shock																								electric shock
explosion						1																	1	explosion
burst	1																						1	burst
fire																								fire
traffic accident (public	1	1	1					2												1			6	traffic accident
road)	I I																						O	(public road)
traffic accident (others)																								traffic accident
traine accident (others)																								(others)
reaction to																								reaction to
motion/improper																								motion/improper
motion																								motion
others										1													1	others
unclassifiable																								unclassifiable
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2	1	3	3	1	6	4	3	76	total

Causal agents (large) of fatal accidents in paper processing products in 1999-2021

																									Causal (L)	
Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total		

																								agents
machine	2	2	3	6		4	1	1	1	1	1	3	1		1		1	1		2	2		33	machine
crane, conveying machine	4	1	4	1	1		1	2	1	1			1	2	1	1	1	1	1	2	1	2	29	crane, conveying machine
other equipment			1	1									1										3	other equipment
temporary buildings, establishments	1								1				1					1		1		1	6	temporary buildings, establishments
substance, material																	1						1	substance, material
load																								load
environment													1							1	1		3	environment
others										1													1	others
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2	1	3	3	1	6	4	3	76	total

Causal agents (middle) of fatal accidents in paper processing products in 1999-2021

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (M) agents
engine																									engine
power transmission mechanism				1								1												2	power transmission mechanism

	<u> </u>		<u> </u>				<u> </u>				\sqsubseteq												<u> </u>	
woodworking machine																								woodworking machine
construction machine																								construction machine
metal manufacturing machine																								metal manufacturing machine
general machine	2	2	3	5		4	1	1	1	1	1	2	1		1		1	1		2	2		31	general machine
mobile silviculture machine																								mobile silviculture machine
crane				1	1		1							2				1		1			7	crane
conveying machine	4		3						1	1			1		1	1	1		1	1	1	2	18	conveying machine
vehicle		1	1					2															4	vehicle
pressure vessel																								pressure vessel
chemical facilities																								chemical facilities
welding equipment																								welding equipment
kiln, caldron																								kiln, caldron
electric equipment																								electric equipment

human power machine,																								human power
tools																								machine, tools
tools			1	1									1										3	tools
other equipments,																								other equipments, facilities
temporary buildings, establishments	1								1				1					1		1		1	6	temporary buildings, establishments
hazards, harmful substances																								hazards, harmful substances
materials																	1						1	materials
load																								load
natural environment													1							1	1		3	natural environment
other causal agent																								other causal agent
no causal agent										1													1	no causal agent
unclassifiable																								unclassifiable
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2	1	3	3	1	6	4	3	76	total

mechanism circular sawing machine band 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 1	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
mechanism circular sawing machine band 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 1	engine																									engine
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	-				1								1												2	power transmission mechanism
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																										
machine hollow chisel mortiser, wood borer chamfering machine, router, woodworking milling machine chain saw other woodworking machines leveling, transporting or loading machine machine hollow chisel mortiser, wood borer chamfering machine, router, woodworking milling machine chain saw other woodworking machines leveling, transporting or loading machine																										
hollow chisel mortiser, wood borer chamfering machine, router, woodworking milling machine chain saw other woodworking machines leveling, transporting or loading machine																										
chamfering machine, router, woodworking milling machine chain saw other woodworking machines leveling, transporting or loading machine																										mortiser, wood
other woodworking machines leveling, transporting or loading machine other woodworkin machines leveling, transporting or loading machine	router, woodworking																									machine, router, woodworking
machines leveling, leveling, transporting or loading machine	chain saw																									chain saw
transporting or loading machine transporting or loading machine																										other woodworking
excavating machine excavating machine excavating machine	transporting or																									transporting or
	excavating machine																									excavating machine

foundation work																foundation work
hardening machine																hardening machine
demolition machine																demolition machine
vehicle for high lift work																vehicle for high lift work
other construction machines																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				1									1		2	mixer, grinder
roll machine (except printingroll machine)	1	1		1	1		1								5	roll machine (except printingroll

																					machine)
injection molding machine																					injection molding
food manufacturing machine																					food manufacturing machine
printing machine																					printing machine
industrial robot																					industrial robot
other general power	2	1	2	5		2		1	1	1	2	1		1		1	1	1	2	24	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		1	crane
mobile crane																					mobile crane
derrick crane																					derrick crane
elevator, lift				1	1		1						2				1			6	elevator, lift
cargo lifting appliance																					cargo lifting appliance
gondola																					gondola
lumberyard																					lumberyard

equipment, logging cableway																			equipment, logging cableway
simple skyline yarding equipment																			simple skyline yarding equipment
other powered crane																			other powered crane
truck	1														1			2	truck
forklift	2		1				1			1	1	1		1		1	2	11	forklift
railway equipment																			railway equipment
conveyor								1					1					2	conveyor
loader																			loader
straddle carrier																			straddle carrier
rough terrain hauler																			rough terrain hauler
other powered conveying machines	1		2															3	other powered conveying machines
cars, bus, motorcycle		1	1			2												4	cars, bus, motorcycle
railway vehicle																			railway vehicle
other vehicles																			other vehicles
boiler																			boiler
pressure vessel																			pressure vessel
other pressure vessels																			other pressure vessels
chemical facilities																			chemical facilities

1-	 					 									 	 			 	
gas welding																				gas welding
equipment																				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																				human power
hauling equipment																				hauling equipment
human power																				human power
machine																				machine
hand tool																				hand tool
ladder		1									1								2	ladder
slinging tool			1																1	slinging tool
other tools																				other tools
Ir-	 	$\overline{}$	$\overline{}$	$\overline{}$	$\overline{}$	 	$\overline{}$	-	 	 	$\overline{}$	$\overline{}$	 	1						

other equipment,														other equipment,
scaffolding														scaffolding
timbering														timbering
stairs, landing stage											1		1	stairs, landing stage
opening														opening
roof, beam, haze, crossbeam, principal rafter	1				1					1		1	4	roof, beam, haze, crossbeam, principal rafter
working platform, boot board														working platform, boot board
passage							1						1	passage
building, establishment														building, establishment
other temporary buildings, establishments														other temporary buildings, establishments
explosive substance														explosive substance
inflammable substance														inflammable 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																								lumber, bamboo
stone, sand,																								stone, sand,
substance																								substance
other materials																	1						1	other materials
load																								load
machine/equipment																								machine/equipment
as load																								as load
natural ground, rock																								natural ground,
natural ground, rock																								rock
standing tree																								standing tree
water													1										1	water
abnormal																								abnormal
environment																								environment
high/cold																								high/cold
temperature																				1	1		2	temperature
environment														_										environment
other environments																								other environments
other causal agent																								other causal agent
no causal agent										1													1	no causal agent
unclassifiable																								unclassifiable
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2	1	3	3	1	6	4	3	76	total

Workers age of fatal accidents in 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		1																						1	19 years old or less
20-29	2		1	3			1	1		2		2					1		1					14	20-29
30-39	1		1	1		2			1				1					1						8	30-39
40-49	2	1	3	2				1	2				1		1			1	1		3			18	40-49
50-59	2	1	2	1	1	1		1					2					1	1	1	1	3	2	20	50-59
60 years old or more			1	1		1	1			1	1	1	1	2	1						2	1	1	15	60 years old or more
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2		1	3	3	1	6	4	3	76	total

Workers' number of workplace of fatal accidents in 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			2					1	1														1	5	9 workers or less
10-29	3		1	3		3	1	1	2			1	2	1					1		2		1	22	10-29
30-49	1	3	2		1			1		1	1			1					1					12	30-49
50-99			2	4			1			1		1	1		2		1	1			1	1		16	50-99
100-299	2		1			1				1			2					2	1	1	3	3	1	18	100-299
300 workers or more	1			1								1												3	300 workers or more
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2		1	3	3	1	6	4	3	76	total

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					1	1						6	January
February								1	1		1								1		1		2	7	February
March			3							2			2	1										8	March
April				1						1								1		1				4	April
May	1			2		1						1	1											6	May
June			1																					1	June
July	2	1											1								1			5	July
August						1			1						1				1		1	1	1	7	August
September	1		2	1									1								2			7	September
October	2	1	1	1		1									1			1	1			2		11	October
November				1			1	1				1										1		5	November
December			1	2	1	1	1		1					1							1			9	December
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2		1	3	3	1	6	4	3	76	total

Prefecture of fatal accidents in 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						1																		1	Hokkaido
Aomori									1															1	Aomori
lwate																									lwate
Miyagi				1									1											2	Miyagi
Akita																									Akita

Yamagata																						Yamagata
Fukushima																				1	1	Fukushima
lbaraki		1	1																		2	Ibaraki
Tochigi				1		1															2	Tochigi
Gunma																						Gunma
Saitama			1	1							1			1		2		1	1		8	Saitama
Chiba																						Chiba
Гокуо	1						1	1													3	Tokyo
Kanagawa	1				1			1													3	Kanagawa
Niigata																						Niigata
Гоуата																						Toyama
shikawa																			1		1	Ishikawa
Fukui																						Fukui
Yamanashi												1									1	Yamanashi
Nagano																						Nagano
	1										1										2	Gifu
Shizuoka	1	1				1			1						1						5	Shizuoka
Aichi			3	1				1	1												6	Aichi
Mie																				1	1	Mie
Shiga		1												1							2	Shiga
Kyoto			2							2		1						1		1	7	Kyoto
Osaka				1			1			1			1				1				5	Osaka
	2											2	1			1		2			8	Hyogo

Nara																				1			1	Nara
Wakayama																								Wakayama
Tottori																					1		1	Tottori
Shimane																								Shimane
Okayama																								Okayama
Hiroshima																								Hiroshima
Yamaguchi																								Yamaguchi
Tokushima																		1					1	Tokushima
Kagawa	1			2														1					4	Kagawa
Ehime				1		1					1							1		1			5	Ehime
Kochi																								Kochi
Fukuoka																								Fukuoka
Saga																					1		1	Saga
Nagasaki												1											1	Nagasaki
Kumamoto																								Kumamoto
Oita																								Oita
Miyazaki			1																				1	Miyazaki
Kagoshima																								Kagoshima
Okinawa																								Okinawa
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2	1	3	3	1	6	4	3	76	total

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

