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

paper processing products industry Code No.010602

Type of accidents in 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	54	55	63	74	43	57	55	53	53	46	40	42	41	44	42	44	47	50	46	37	59	41	51	38	1,175
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	82	1,563
crash	29	33	38	29	27	31	28	33	21	16	20	18	18	17	11	17	14	24	21	17	25	19	23	27	556
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	12	485
collapse	13	10	12	13	15	8	14	14	19	17	8	7	4	8	7	7	7	7	3	8	8	7	6	12	234
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	16	549
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	201	7,025
cut	49	50	56	55	52	44	50	44	39	34	36	35	34	34	29	20	23	34	18	23	28	23	19	27	856
injury to the sole of the foot					1		1	1			1		1		1	1		1	1	1		1	1		12
drown													1												1
contact to high/low-	6	7	8	6	4	5	3	4	5	4	5	7	7	7	6	2	3	3	9	7	4	9	7	6	134

temperature																									
contact to harmful substance	1	1	1	2	1	4	2		2		1	4			2	2		2	1		5	1			32
electric shock			1	1	1			1										1		1				1	7
explosion						3													1	1					5
burst			1						1																2
fire				1					1			1				1		1							5
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	1	90
traffic accident (others)	1	1	1												1	1				2					7
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	72	933
others	1	2				2		1	1	1	1	1			1			1	1	1		5	22		41
unclassifiable	2	1		1	1	1		1		1	1			1		1	1		1	1				1	15
total	779	755	775	776	748	685	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	496	13,727

Causal agents (large) of fatal and non-fatal accidents in 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	432	406	401	424	418	376	313	332	341	306	262	276	243	263	246	235	207	239	234	204	206	195	212	188	6,959

crane, conveying machine	109	113	117	115	116	85	86	84	91	85	75	65	63	68	66	64	53	74	62	70	75	76	69	62	1,943
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	66	1,442
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	86	1,512
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	28	624
load	44	24	41	38	27	31	40	30	37	31	24	36	28	35	21	17	24	18	25	23	25	25	24	31	699
environment	2	1	5	4	3	4	3	3	3	4	1	8	3	6	4	7	4	3	5	7	5	7	5	5	102
others	23	25	13	16	16	16	22	15	17	19	18	8	19	17	20	17	16	10	13	21	18	16	41	30	446
total	779	755	775	776	748	685	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	496	13,727

Causal agents (middle) of fatal and non-fatal accidents in 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	1		2					1	6
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	8	230
woodworking machine	2	1	4	2	4	3	3	5	3		1	3	4	4	3	1	1	3	1	2	2	3		2	57

construction machine	1		1											1											3
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	5	262
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	172	6,401
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		1	87
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	60	1,770
vehicle	3	4	10	8	3	4		4	5	5	1	5	4	4	6	4	2	6	2	1		2	2	1	86
pressure vessel			1		1								1					1					1		5
chemical facilities		1																	2						3
welding equipment																									
kiln, caldron							1		1	1				1											4
electric equipment			2	2	2		2					1			1	1	1	1						5	18
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	23	441
tools	43	30	39	37	28	27	29	43	33	36	24	29	35	29	33	26	23	23	36	33	29	37	37	30	769
other equipments,	7	17	13	8	5	13	7	3	12	12	3	11	7	12	5	7	8	5	9	7	9	5	9	8	202

facilities																									
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	86	1,512
hazards, harmful substances	5		4	3	1	4	2		2	1	1	5	3		5	3		4	3		5	3	1		55
materials	25	42	28	34	35	33	25	34	32	17	18	17	20	23	18	12	23	18	16	25	12	11	23	28	569
load	44	24	41	38	27	31	40	30	37	31	24	36	28	35	21	17	24	18	25	23	25	25	24	31	699
natural environment	2	1	5	4	3	4	3	3	3	4	1	8	3	6	4	7	4	3	5	7	5	7	5	5	102
other causal agent	5	5	3	2	3	3	2	4	2	4	4	2	2	3	3	1			2	3	4	4	23	4	88
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	25	336
unclassifiable	3	3	1	1	1			1		1	1	1		2	1	1	2			2				1	22
total	779	755	775	776	748	685	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	496	13,727

Causal agents (small) of fatal and non-fatal accidents in 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	1		2					1	6
power transmission mechanism			12		15		12	14	4	11	7	2	9	11	10	9	10	5	4	7	4	5	7	8	166
circular sawing			3		2		2	4	3		1	3	2	3	1	1	1	2		2	1	3		2	36

machine																									
band sawing machine					1								1												2
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine			1																						1
chain saw																									
other woodworking machines					1		1	1					1	1	2			1	1		1				10
leveling, transporting or loading machine			1											1											2
excavating machine																									
foundation work machine																									
hardening machine																									
demolition machine																									

vehicle for high lift work																									
other construction machines																									
lathe							1				1	1						2	1					1	7
drill press, milling machine							1	1		1		2	1												6
grinding machine, buffing machine			1		2			1		1	1				2						1				9
power press			6		1		1	3	3	1	2	1	5	1	3	2	1	3			2	4		2	41
forging pressure hammer			1																						1
shearing machine			5		10		3	7	4	3	4	6	4	5	3	4	6	4	5	3	3	4	4	2	89
other metal manufacturing machines			5		3		4	5	2	3	2	3	2			3		3		1	2				38
centrifugal machine																									
mixer, grinder			2		2			1		2	2			1	2			1	1	2	3	2	4	2	27
roll machine (except printingroll machine)			49		66		57	55	51	55	38	44	30	45	38	42	35	41	40	29	29	33	35	35	847
injection molding																									

machine			1				2	1			1					1				1	1			3	11
food manufacturing machine			1					1		1														1	4
printing machine			49		57		41	57	55	41	38	45	40	46	46	39	31	34	44	27	30	20	32	23	795
industrial robot							1	1	1	1	2	2		1								1		1	11
other general power machines			264		258		187	180	218	186	163	166	148	148	139	133	122	143	136	132	129	123	130	107	3,212
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane			2		2		1	1	1	1	1		2	2			2			2	4			1	22
mobile crane																									
derrick crane																									
elevator, lift			7		8		2	2	4		2			2		1			2	1	1	2			34
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane					2					1	1	1		1	2	1		2				1			12
truck			17		11		15	21	15	14	10	11	7	10	16	10	10	20	16	25	16	19	20	9	292
forklift			42		60		43	33	42	39	33	26	30	33	16	27	28	24	22	22	32	29	28	31	640
railway equipment										2			1							1		1			5
conveyor			33		28		19	21	20	23	23	18	15	15	26	19	6	20	18	13	19	19	18	17	390
loader					1								1				1								3
straddle carrier																									
rough terrain hauler																									
other powered conveying machines			6		1		6	2	4		4	4	3	1		2	4	2	2	5	3	3	1	3	56
cars, bus, motorcycle			10		3			4	5	4	1	5	4	4	6	4	2	6	2	1		2	2	1	66
railway vehicle																									
other vehicles										1															1
boiler																							1		1
pressure vessel			1															1							2

other pressure vessels					1								1												2
chemical facilities																			2						2
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron							1		1	1															3
industrial dryer														1											1
other kiln, caldron																									
transmission			1		2		1								1	1		1						3	10
electric power facilities																								1	1
other electrical equipment			1				1					1					1							1	5
human power cranes																1			1		1		3	2	8
human power hauling equipment			12		13		8	9	12	8	9	9	9	12	5	6	7	11	5	8	13	8	3	7	174
human power			5						1	1	2			2			1	1	1	1	2	1		2	20

machine																									
hand tool			16		15		13	11	6	11	4	9	5	9	8	3	3	9	5	3	4	6	5	12	157
ladder			14		13		12	14	14	13	8	11	14	15	13	14	13	6	15	10	13	8	9	6	235
slinging tool								2		1							1							1	5
other tools			25		15		17	27	19	22	16	18	21	14	20	12	9	17	21	23	16	29	28	23	392
other equipment, facilities			13		5		7	3	12	12	3	11	7	12	5	7	8	5	9	7	9	5	9	8	157
scaffolding							2									1					1		1		5
timbering																									
stairs, landing stage			14		8		10	12	15	16	11	12	12	9	7	13	19	6	10	10	15	16	9	13	237
opening					1		1		1	1	2	1	2	2		1		1				1	1	2	17
roof, beam, haze, crossbeam, principal rafter			1		1		1	1	1		1				1	1		1	1	1			1	1	13
working platform, boot board			20		15		16	16	8	9	11	9	7	10	9	10	15	14	9	4	15	9	9	18	233
passage			27		30		27	18	15	29	13	21	20	23	21	15	20	21	23	35	28	22	25	39	472
building, establishment			8		5		11	7	9	5	2	4	5	5	7	4	6	3	4	8	6	3	7	7	116
other temporary buildings, establishments			8		8		3	3	8	6	5	3	7	9	4	13	5	11	6	5	5	7	3	6	125

explosive substance																									
inflammable substance			1									1			3	1									6
inflammable gas													1					1				1	1		4
harmful substance			1						1			3			2	2		1	1						11
radiation																									
other hazards, harmful substances			2		1		2		1	1	1	1	2					2	2		5	2			22
metal material			9		9		3	12	8	5	5	5	3	4	5	1	4	5	4	5	3	5	7	2	104
lumber, bamboo			5		3		1	2	5	1			3	2	2	1	1	6	3	2	2	1	2	4	46
stone, sand, substance							1													1					2
other materials			14		23		20	20	19	11	13	12	14	17	11	10	18	7	9	17	7	5	14	22	283
load			40		24		40	28	36	28	24	32	25	33	20	17	24	17	24	21	25	25	23	31	537
machine/equipment as load			1		3			2	1	3		4	3	2	1			1	1	2			1		25
natural ground, rock			1		1		1											1							4
standing tree													1			1					1				3
water			1										1			1									3
abnormal environment																									

high/cold temperature environment			1		1			1	2	1	1	6	1	3	2		3	1	4	5	4	6	3	4	49
other environments			2		1		2	2	1	3		2		3	2	5	1	1	1	2		1	2	1	32
other causal agent			3		3		2	4	2	4	4	2	2	3	3	1			2	3	4	4	23	4	73
no causal agent			9		12		20	10	15	14	13	5	17	12	16	15	14	10	11	16	14	12	18	25	278
unclassifiable			1		1			1		1	1	1		2	1	1	2			2				1	15
total	779	755	775	776	748	685	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	496	13,727

Workers age of fatal and non-fatal accidents in 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	26	27	36	28	25	22	30	13	21	17	16	18	17	8	12	19	11	12	18	15	19	8	17	10	445
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	83	2,694
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	75	2,861
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	120	2,846
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	118	3,065
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	90	1,816
total	779	755	775	776	748	685	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	496	13,727

Workers' number of workplace of fatal and non-fatal accidents in 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	129	129	118	116	131	124	89	87	94	74	59	68	66	70	75	53	63	57	60	60	40	45	62	49	1,918
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	136	4,391
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	99	2,843
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	102	2,504
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	90	1,776
300 workers or more	15	12	15	11	5	6	8	7	11	11	5	9	10	13	7	15	14	9	16	12	21	14	29	20	295
total	779	755	775	776	748	685	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	496	13,727

Month of fatal and non-fatal accidents in 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	75	64	69	65	67	80	54	59	50	47	43	57	32	47	37	44	34	47	33	33	45	42	32	39	1,195
February	56	51	61	63	69	56	48	53	50	49	29	36	31	42	42	40	30	45	35	47	37	28	35	42	1,075
March	72	75	72	51	71	52	51	52	62	56	45	41	39	51	45	39	32	44	32	44	35	38	44	43	1,186
April	64	67	72	62	62	60	37	53	46	54	49	49	48	47	31	44	40	34	53	41	27	42	49	40	1,171
May	65	64	68	67	54	56	50	49	51	44	41	39	34	43	35	32	33	30	33	26	42	42	34	25	1,057
June	54	72	70	59	71	55	57	61	66	53	35	44	54	41	42	38	32	30	46	41	32	34	35	40	1,162
July	67	46	73	86	60	46	55	53	55	64	44	44	40	54	31	52	42	49	37	39	45	35	33	49	1,199

August	51	56	47	62	56	52	70	53	55	40	45	49	41	46	42	33	36	42	35	46	38	37	46	47	1,125
September	81	58	75	68	65	58	39	46	61	44	39	43	55	41	29	29	48	34	34	25	51	36	50	43	1,152
October	68	79	62	64	60	67	59	38	66	62	49	51	51	39	56	34	40	47	41	43	48	25	56	36	1,241
November	59	58	52	68	52	56	51	59	46	50	35	38	33	39	41	29	35	32	54	40	42	37	36	48	1,090
December	67	65	54	61	61	47	51	45	37	35	32	33	31	45	50	43	33	40	37	40	32	52	39	44	1,074
total	779	755	775	776	748	685	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	496	13,727

Prefecture of fatal and non-fatal accidents in 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	15	9	16		6		4	8	14	9	5	7	6	10	15	4	9	11	6	4	7	7	6	9	187
Aomori	1	1	3		3		1	3	2	3			4	1	3	5	1	4	3	2	1	3	1		45
Iwate	3	4	3		2		1	2	2	2		4	1	4	2	4	1	1	2		1	3	1	1	44
Miyagi	15	7	7		10		3	7	4	9	3	4	5	3	5	7	2	3	5	3	5	1	6	10	124
Akita	2	2	2		2		1		1								1	2		1	2	2	1		19
Yamagata	12	2	10		2		4	2	7	2	5	6	4	4	5	5	2	5	2	4	5	3	7	7	105
Fukushima	8	14	11		7		4	10	8	9	5	8	8	9	7	7	10	11	6	6	5	4	9	4	170
Ibaraki	20	20	13		17		13	15	19	21	18	11	11	14	12	11	13	13	10	18	9	14	17	14	323
Tochigi	14	11	16		13		14	11	7	8	11	10	12	15	9	12	10	8	10	10	6	11	14	9	241
Gunma	13	9	8		12		15	11	5	8	8	9	8	8	9	8	7	8	2	9	7	7	6	10	187
Saitama	43	60	47		65		45	50	55	49	36	50	34	47	38	33	36	44	41	48	54	46	50	53	1,024

Chiba	25	24	34		11		15	20	17	18	19	17	13	8	12	10	7	8	12	5	10	8	18	12	323
Tokyo	30	30	31		35		22	16	18	26	16	22	21	15	17	13	13	11	16	15	7	10	20	12	416
Kanagawa	40	34	23		38		42	30	18	25	16	25	16	31	19	14	16	19	20	9	10	12	18	23	498
Niigata	9	12	8		12		5	7	4	8	8	8	7	9	11	6	9	6	8	4	5	9	11	8	174
Toyama	8	7	6		14		2	13	12	2	7	9	11	8	7	3	7	7	5	3	4	4	10	6	155
Ishikawa	3	8	5		5		6	6	2	6	3	5	2	3	3	2	2	3	2	5	6	3	3	6	89
Fukui	5	4	11		4		7	4	1	4	8	6	4	3	10	3	4	4	2	4	4	4	1	5	102
Yamanashi	12	5	9		4		4	12	4	2		2	2	4	2	5	3	4	2	2	1	4	4	5	92
Nagano	8	7	10		8		8	13	6	9	10	4	6	6	10	7	8	7	3	7	7	8	4	12	168
Gifu	29	27	22		29		30	19	24	24	14	9	12	24	10	10	16	17	14	11	15	21	13	26	416
Shizuoka	73	71	77		72		59	57	56	60	36	61	35	51	36	44	40	44	42	44	42	40	42	42	1,124
Aichi	60	53	47		53		41	37	45	40	30	47	41	42	31	34	42	38	44	42	42	32	48	48	937
Mie	13	14	9		14		16	14	6	14	6	10	3	8	6	6	5	5	7	4	12	5	4	2	183
Shiga	9	12	10		24		10	14	13	12	14	8	8	10	10	12	9	8	7	8	10	10	11	12	241
Kyoto	12	28	26		22		14	14	27	15	15	9	16	17	18	13	10	11	19	13	14	7	12	10	342
Osaka	87	74	94		73		59	57	74	58	47	46	59	53	49	36	35	40	41	41	30	30	43	28	1,154
Hyogo	42	47	40		27		26	25	31	25	25	15	26	26	18	25	20	22	17	24	28	20	20	18	567
Nara	7	8	13		12		6	13	13	20	13	11	7	8	7	7	13	11	9	10	19	8	17	8	240
Wakayama	5	7	2		5		5	8	4	5	10	2	3	4	4	6	5	4	6	9	2	6	4	3	109
Tottori	3	4	2		2		2	1		1	4	2	1	2	2	1		1		4	3	7	3	2	47
Shimane	5	3	2		2		2	1	3	4			1	1	1	3	1		1	3	1		1		35

Okayama	8	12	8		17		13	8	15	8	4	15	9	14	9	14	4	7	9	9	5	11	7	12	218
Hiroshima	11	15	18		9		13	11	15	9	16	6	6	6	12	12	8	7	7	11	10	7	6	4	219
Yamaguchi	7	7	5		5		7	8	5	5	2	7	6	5		4	3	2	3	5	4	2	3	6	101
Tokushima	6	6	10		4		3	3	8	4	2	3	2	2	3		2		5	1	4	3	1	1	73
Kagawa	11	13	11		23		15	9	19	10	9	8	15	8	12	16	7	6	14	7	8	13	8	14	256
Ehime	42	41	49		42		39	34	34	29	33	24	33	28	26	31	25	30	28	27	36	27	19	26	703
Kochi	16	6	12		10		9	9	9	3	6	5	6	2	1	2	3	12	7	4	2	2		2	128
Fukuoka	18	16	15		16		25	13	18	18	11	7	14	14	13	9	8	15	15	17	17	12	8	9	308
Saga	13	4	4		2		1	8	2	8	1	8	4	3	4	2	5	5	5	4	5	13	2	6	109
Nagasaki	4	3	3		2		1	1	1			3	1	1	2	2		1	2	1	2		1	4	35
Kumamoto	7	5	8		6		3	7	7	3	3	3	1		3	5	6	3	4	2	2	3	2	2	85
Oita	1	1	3		1		1	4	4		1	3	3		2	3	4	1	3	1	2	1	3	1	43
Miyazaki	2	4	5		1		3	1	4		3		1	1	2		1	1	1		1	2	2	2	37
Kagoshima	1	2	5		3		2	4	2	3	3	1	1	2			1	2	2	1	2	1			38
Okinawa	1	2	2		2		1	1				4		1	4	1	1	2	1	3		2	2	2	32
total	779	755	775	776	748	685	622	621	645	598	486	524	489	535	481	457	435	474	470	465	474	448	489	496	13,727

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 paper processing products in Japan in 1999-2022

paper processing products industry Code No.010602

Type of fatal accidents in 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		2				1	1					2		1		3	1	15
falling to same level													2		1		1								4
crash																									
struck by flying or falling object																									
collapse																		1							1
crashed by				1														1			1				3
caught in/between	4	2	6	7		3	1	1	1	2	1	3	1	1	1			1	1	1	2	3		2	44
cut																									
injury to the sole of the foot																									
drown													1												1

contact to high/low-temperature																					1	1			2
contact to harmful substance																									
electric shock																									
explosion						1																			1
burst	1																								1
fire																									
traffic accident (public road)	1	1	1					2													1				6
traffic accident (others)																									
reaction to motion/improper motion																									
others										1															1
unclassifiable																									
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2		1	3	3	1	6	4	3	3	79

Causal agents (large) of fatal accidents in 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	2	2	3	6		4	1	1	1	1	1	3	1		1			1	1		2	2		2	35
crane, conveying machine	4	1	4	1	1		1	2	1	1			1	2	1		1	1	1	1	2	1	2		29
other equipment			1	1									1												3
temporary buildings, establishments	1								1				1						1		1		1	1	7
substance, material																		1							1
load																									
environment													1								1	1			3
others										1															1
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2		1	3	3	1	6	4	3	3	79

Causal agents (middle) of fatal accidents in 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	2	2	3	5		4	1	1	1	1	1	2	1		1			1	1		2	2		2	33
mobile silviculture machine																									
crane				1	1		1							2					1		1				7
conveying machine	4		3						1	1			1		1		1	1		1	1	1	2		18
vehicle		1	1					2																	4
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools			1	1									1												3
other equipments, facilities																									
temporary buildings, establishments	1								1				1						1		1		1	1	7
hazards, harmful substances																									

materials																		1							1
load																									
natural environment													1								1	1			3
other causal agent																									
no causal agent										1															1
unclassifiable																									
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2		1	3	3	1	6	4	3	3	79

Causal agents (small) of fatal accidents in 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				2
roll machine (except printingroll machine)		1	1			1	1			1														1	6
injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																								1	1
other general power machines	2	1	2	5		2		1	1		1	2	1		1			1	1		1	2			24
felling machine																									
mobile logging																									

machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																					1				1
mobile crane																									
derrick crane																									
elevator, lift				1	1		1							2					1						6
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck	1																				1				2
forklift	2		1						1				1		1		1			1		1	2		11
railway equipment																									
conveyor										1								1							2

loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines	1		2																						3
cars, bus, motorcycle		1	1					2																	4
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			1										1												2
slinging tool				1																					1
other tools																									
other equipment, facilities																									
scaffolding																									
timbering																									
stairs, landing stage																					1				1
opening																									
roof, beam, haze,																									

crossbeam, principal rafter	1								1										1				1		4
working platform, boot board																								1	1
passage													1												1
building, establishment																									
other temporary buildings, establishments																									
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance																									
radiation																									
other hazards, harmful substances																									
metal material																									
lumber, bamboo																									
stone, sand, substance																									

other materials																		1							1
load																									
machine/equipment as load																									
natural ground, rock																									
standing tree																									
water													1												1
abnormal environment																									
high/cold temperature environment																					1	1			2
other environments																									
other causal agent																									
no causal agent										1															1
unclassifiable																									
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2		1	3	3	1	6	4	3	3	79

Workers age of fatal accidents in 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		1																							1

20-29	2		1	3			1	1		2		2					1		1						14
30-39	1		1	1		2			1				1					1							8
40-49	2	1	3	2				1	2				1		1			1	1		3			2	20
50-59	2	1	2	1	1	1		1					2					1	1	1	1	3	2		20
60 years old or more			1	1		1	1			1	1	1	1	2	1						2	1	1	1	16
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2		1	3	3	1	6	4	3	3	79

Workers' number of workplace of fatal accidents in 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			2					1	1														1		5
10-29	3		1	3		3	1	1	2			1	2	1					1		2		1		22
30-49	1	3	2		1			1		1	1			1					1					2	14
50-99			2	4			1			1		1	1		2		1	1			1	1		1	17
100-299	2		1			1				1			2					2	1	1	3	3	1		18
300 workers or more	1			1								1													3
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2		1	3	3	1	6	4	3	3	79

Month of fatal accidents in 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					1	1						1	7

February								1	1		1								1		1		2	1	8
March			3							2			2	1											8
April				1						1								1		1					4
May	1			2		1						1	1												6
June			1																					1	2
July	2	1											1								1				5
August						1			1						1				1		1	1	1		7
September	1		2	1									1								2				7
October	2	1	1	1		1									1			1	1			2			11
November				1			1	1				1										1			5
December			1	2	1	1	1		1					1							1				9
total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2		1	3	3	1	6	4	3	3	79

Prefecture of fatal accidents in 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									1																1
Iwate																									
Miyagi				1									1												2
Akita																									

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

Osaka				1			1			1				1						1				1	6
Hyogo	2												2	1				1			2				8
Nara																					1				1
Wakayama																									
Tottori																						1			1
Shimane																									
Okayama																									
Hiroshima																									
Yamaguchi																								1	1
Tokushima																			1						1
Kagawa	1			2															1					1	5
Ehime				1		1					1								1		1				5
Kochi																									
Fukuoka																									
Saga																						1			1
Nagasaki												1													1
Kumamoto																									
Oita																									
Miyazaki			1																						1
Kagoshima																									
Okinawa																									

total	7	3	8	8	1	4	2	3	3	3	1	3	5	2	2		1	3	3	1	6	4	3	3	79

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

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