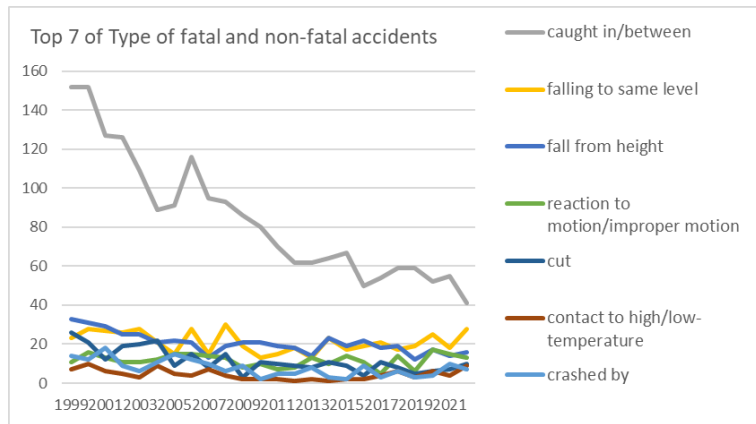
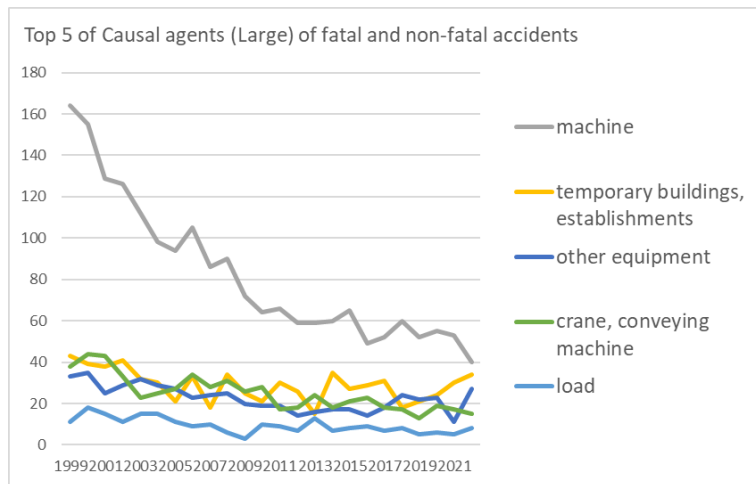


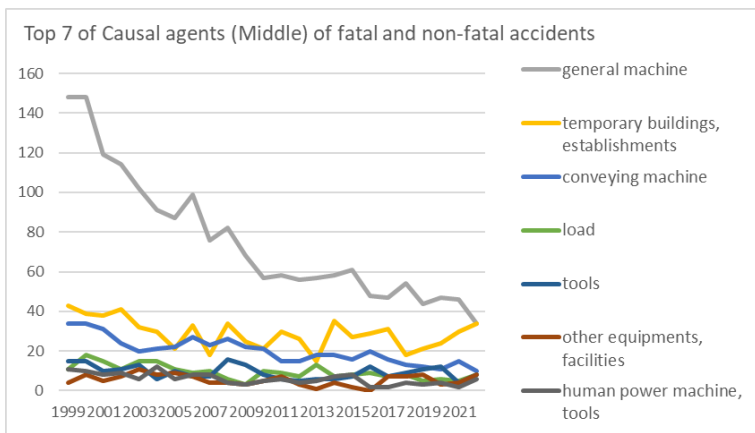
Transition of fatal and non-fatal accidents in 010601 pulp/paper in Japan (1999-2022)



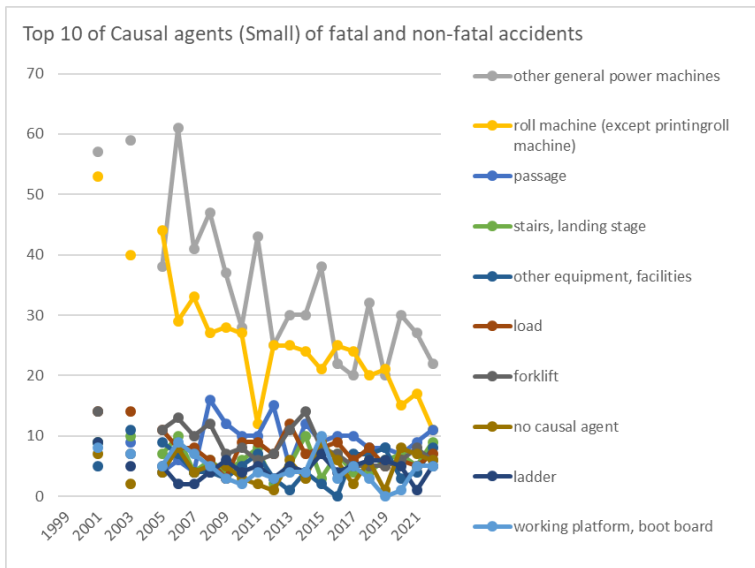
Transition of Top 7 of Type of fatal and non-fatal accidents in 010601 pulp/paper in Japan (1999-2022)



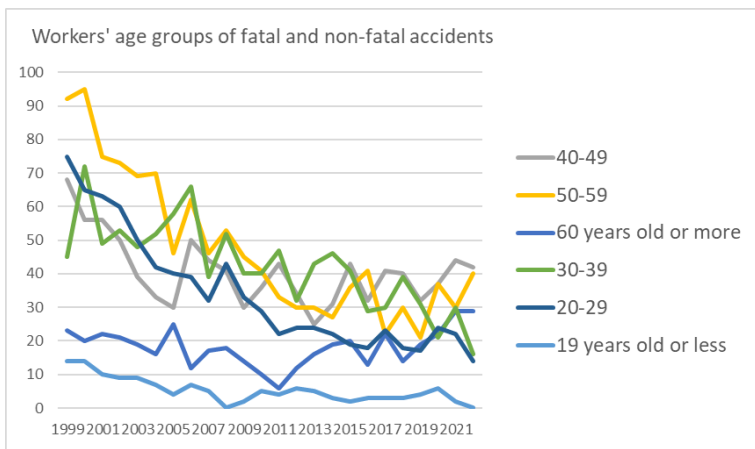
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 010601 pulp/paper in Japan (1999-2022)



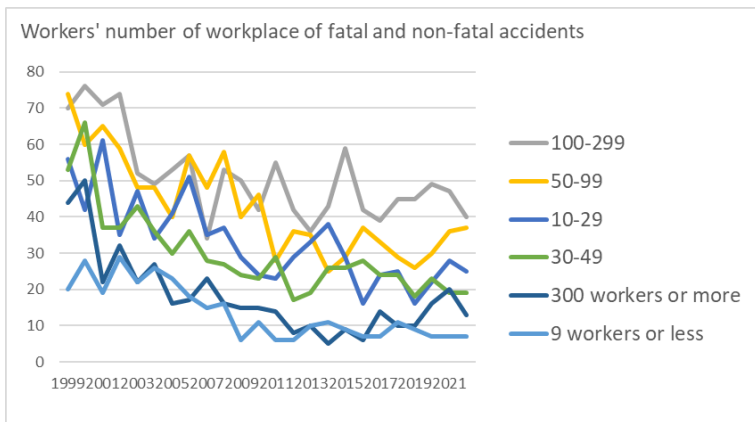
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 010601 pulp/paper in Japan (1999-2022)



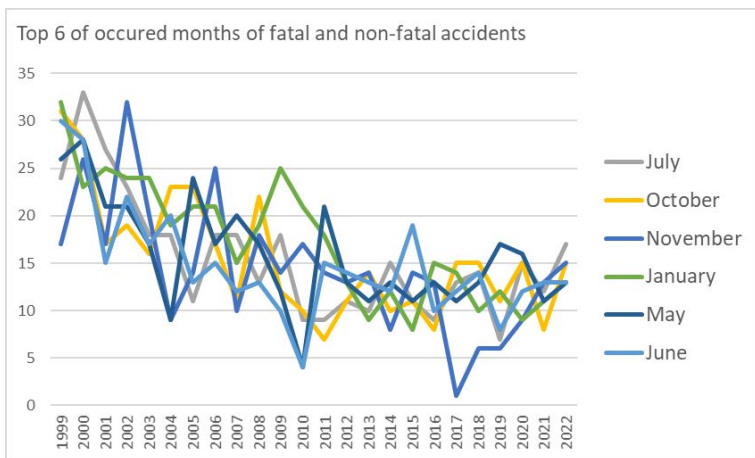
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 010601 pulp/paper in Japan (1999-2022)



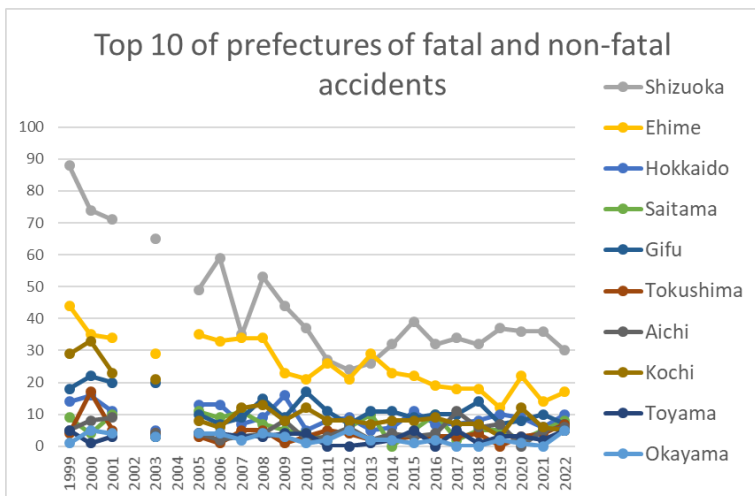
Transition of workers' age groups of fatal and non-fatal accidents in 010601 pulp/paper in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 010601 pulp/paper in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 010601 pulp/paper in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 010601 pulp/paper in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 010601 pulp/paper in Japan (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	Type of accidents
caught in/between	152	152	127	126	109	89	91	116	95	93	86	80	70	62	62	64	67	50	54	59	59	52	55	41	2,011	caught in/between
falling to same level	23	28	27	26	28	21	15	28	15	30	19	13	15	18	13	23	17	19	21	17	19	25	18	28	506	falling to same level

																												level
fall from height	33	31	29	25	25	21	22	21	13	19	21	21	19	18	14	23	19	22	18	19	12	17	14	16	492	fall from height		
reaction to motion/improper motion	11	16	13	11	11	12	15	15	14	13	8	10	7	8	13	10	14	11	5	14	6	17	15	13	282	reaction to motion/improper motion		
cut	26	21	12	19	20	22	9	15	8	15	3	11	10	9	8	11	9	4	11	8	5	6	7	10	279	cut		
contact to high/low-temperature	7	10	6	5	3	9	5	4	7	4	2	2	2	1	2	1	2	2	4	6	3	6	4	9	106	contact to high/low-temperature		
crashed by	14	12	18	9	6	11	15	12	10	6	9	2	5	5	8	3	2	9	3	6	3	4	10	7	189	crashed by		
crash	10	23	15	11	10	9	14	5	4	9	4	5	12	6	6	7	11	7	5	3	3	5	5	6	195	crash		
struck by flying or falling object	21	14	10	11	11	14	6	9	6	11	5	7	7	8	5	1	9	7	9	5	6	5	3	3	193	struck by flying or falling object		
electric shock	1	1	1	1				1							2				2					2	11	electric shock		
collapse	8	8	5	3	4	8	5	2	4		3	4	3		7	2	4	3	1	1	3	2	3	1	84	collapse		
contact to harmful substance	4	5	4	8	5	3	3	5	3	3	2	3	1	1	1	2	3	1	5	5	1		5	1	74	contact to harmful substance		
others	2		1	1							1		3	2			2		1	1		1	18	1	34	others		
traffic accident (public road)	1	1	5	2			1	2	2	1	1	1	1		1		1		1		3	6		1	31	traffic accident (public road)		
burst	1			2			1		1															1	6	burst		
explosion				1																				1	2	explosion		
injury to the sole of the foot	1		1	3		1					1				1	1		1	1						11	injury to the sole of the foot		

unclassifiable	2			1			1			2		1													7	unclassifiable
traffic accident (others)				1					1			1									1				4	traffic accident (others)
drown								1								1				1					3	drown
fire			1		2																				3	fire
total	317	322	275	266	234	220	203	236	183	207	164	161	155	138	143	148	161	136	141	144	124	147	157	141	4,523	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 010601 pulp/paper in Japan (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	Causal (L) agents
machine	164	155	129	126	112	98	94	105	86	90	72	64	66	59	59	60	65	49	52	60	52	55	53	40	1,965	machine
temporary buildings, establishments	43	39	38	41	32	30	21	33	18	34	25	21	30	26	15	35	27	29	31	18	21	24	30	34	695	temporary buildings, establishments
other equipment	33	35	25	29	32	29	27	23	24	25	20	19	19	14	16	17	17	14	18	24	22	23	11	27	543	other equipment
crane, conveying machine	38	44	43	33	23	25	27	34	28	31	26	28	17	18	24	18	21	23	18	17	13	19	17	15	600	crane, conveying machine
load	11	18	15	11	15	15	11	9	10	6	3	10	9	7	13	7	8	9	7	8	5	6	5	8	226	load
others	7	9	8	8	3	5	5	11	4	9	5	4	3	3	6	4	10	6	2	7	1	9	25	7	161	others
environment	3	1	4	1		1	2	2			2	1	4	2	2	2	3	1	2	3	4	4	1	6	51	environment
substance, material	18	21	13	17	17	17	16	19	13	12	11	14	7	9	8	5	10	5	11	7	6	7	15	4	282	substance, material
total	317	322	275	266	234	220	203	236	183	207	164	161	155	138	143	148	161	136	141	144	124	147	157	141	4,523	total



power transmission mechanism	7	3	5	7	7	5	5	3	4	6	3	1	6	1	1	1	4	1	3	6	6	4	3	3	95	transmission mechanism
pressure vessel		2	1		2	1	1		5	1		1						1	1				1	3	21	pressure vessel
hazards, harmful substances	4	6	6	8	8	3	5	5	4	3	2	4	2	1	1	2	3	2	5	5	1		5	1	86	hazards, harmful substances
vehicle		3	4	3			1	2	3	2	1	3			2		3	1		1	1	6	1	1	38	vehicle
other causal agent	1	1	1	1	1	2		3		2			1	2		1			1			1	18	1	37	other causal agent
metal manufacturing machine	7	2	4	1	1	1	2	2	3			2	2	1					1		2		3	1	35	metal manufacturing machine
woodworking machine	1	2	1	4	2			1	1	2					1				1			2	1	1	20	woodworking machine
construction machine	1					1			1		1	3		1		1						2		1	12	construction machine
kiln, caldron	1		1	1							1								1			3		1	9	kiln, caldron
electric equipment						1		1							4					2				1	9	electric equipment
chemical facilities	2			1		1	1							1					1				1		8	chemical facilities
unclassifiable	1			1			1			2		1					1								7	unclassifiable
engine									1			1													2	engine
mobile silviculture																										mobile silviculture





other environments			4				2	1			1		4	1	1	1	2		2	1	1			4	25	other environments
conveyor			10		6		5	13	9	12	8	9	5	6	7	4	4	9	5	4	2	3	6	3	130	conveyor
other tools			1		8		5	5	4	9	6	3	1	2	1	2		6	2	3	5	6	3	3	75	other tools
power transmission mechanism			5		7		5	3	4	6	3	1	6	1	1	1	4	1	3	6	6	4	3	3	73	power transmission mechanism
other temporary buildings, establishments			4				2	1	1	2			4	1	1	3		4	5		2	4	1	3	38	other temporary buildings, establishments
crane			3		3		3	2	1	1	2	4	2	2	3		2	1	1	3				3	36	crane
opening							1				2			2			3		1	1		1	4	3	18	opening
hand tool			6		3		3	7	4	2	2	4	4	2	3	5	5	2	2	3	1	2	1	2	63	hand tool
metal material			3		4		4	3	4	2	2	7	3	6	3	2	5	2	3	2	1			2	58	metal material
high/cold temperature environment								1			1	1		1		1			2	2	2	1	2	15	high/cold temperature environment	
roof, beam, haze, crossbeam, principal rafter			2							1	1								1	1	1	2	2	2	13	roof, beam, haze, crossbeam, principal rafter
boiler								4			1								1	1				2	9	boiler
other materials			3		4		5	10	4	7	7	3	2	1	4	1	2	1	3		4	6	10	1	78	other materials
building, establishment			4		3		2	7	2	4		2	4	2		5	2	5	4	1	2	2	3	1	55	building, establishment
printing machine			5		1		4	5		4	3	2	3	4	2	1	2	1	3	2	3	2	2	1	50	printing machine
truck			3		4		3		2	1	2	2	2	1			4	2	6	3	4	1	1	1	42	truck
other causal agent			1		1			3		2			1	2		1				1		1	18	1	32	other causal agent

cars, bus, motorcycle			4				1	2	3	2	1	3			2		3	1		1	1	5	1	1	31	cars, bus, motorcycle	
other hazards, harmful substances			2		5		3	1	2	2	2	1	1			1	1		1		1		2	1	26	other hazards, harmful substances	
elevator, lift			1				1	2	1	2									1			1	1	1	11	elevator, lift	
circular sawing machine			1		1			1	1	1					1							2		1	10	circular sawing machine	
leveling, transporting or loading machine									1		1	2		1		1						2		1	9	leveling, transporting or loading machine	
machine/equipment as load			1		1			1	2			1			1									1	9	machine/equipment as load	
pressure vessel			1		2		1			1														1	6	pressure vessel	
electric power facilities															3									1	5	electric power facilities	
other metal manufacturing machines																							1		1	3	other metal manufacturing machines
industrial dryer																						1		1	2	industrial dryer	
harmful substance			2		2		2	4	2	1		3	1	1	1	1	2	2	4	5			3		36	harmful substance	
other powered conveying machines			1		2		2	1	2	1	3	1	2	1				2			1	1			20	other powered conveying machines	
mixer, grinder			3		1		1	3	1	2			2		3										16	mixer, grinder	
scaffolding			2		3						3	1		1				1			2		1		15	scaffolding	
shearing machine			3				1	1	1			1	2								1		1		11	shearing machine	

slinging tool								1	3	1	1						2				1			9	slinging tool	
other powered crane			3					1			1					1						1			8	other powered crane
loader			3		1		1				1	1										1			8	loader
lumber, bamboo			1		1		2	1	1													1			7	lumber, bamboo
grinding machine, buffing machine			1				1					1										1			5	grinding machine, buffing machine
human power cranes							1			1	1	1	1												5	human power cranes
unclassifiable							1			2		1					1								5	unclassifiable
chemical facilities							1										1					1			4	chemical facilities
kiln, caldron			1								1											1		1	4	kiln, caldron
centrifugal machine								1		2															3	centrifugal machine
injection molding machine			1		1					1															3	injection molding machine
other pressure vessels										1													1		3	other pressure vessels
water																	1						2		3	water
engine										1			1												2	engine
other woodworking machines																									2	other woodworking machines
lathe																									2	lathe
power press																								1	2	power press
other electrical																									2	other electrical







total	317	322	275	266	234	220	203	236	183	207	164	161	155	138	143	148	161	136	141	144	124	147	157	141	4,523	total
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Transition of workers' age groups of fatal and non-fatal accidents in 010601 pulp/paper in Japan (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	Age
40-49	68	56	56	50	39	33	30	50	44	41	30	36	43	34	25	31	43	32	41	40	32	37	44	42	977	40-49
50-59	92	95	75	73	69	70	46	62	46	53	45	41	33	30	30	27	36	41	22	30	21	37	30	40	1,144	50-59
60 years old or more	23	20	22	21	19	16	25	12	17	18	14	10	6	12	16	19	20	13	22	14	19	22	29	29	438	60 years old or more
30-39	45	72	49	53	48	52	58	66	39	52	40	40	47	32	43	46	41	29	30	39	31	21	30	16	1,019	30-39
20-29	75	65	63	60	50	42	40	39	32	43	33	29	22	24	24	22	19	18	23	18	17	24	22	14	818	20-29
19 years old or less	14	14	10	9	9	7	4	7	5		2	5	4	6	5	3	2	3	3	3	4	6	2		127	19 years old or less
total	317	322	275	266	234	220	203	236	183	207	164	161	155	138	143	148	161	136	141	144	124	147	157	141	4,523	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 010601 pulp/paper in Japan (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	Workers scale
100-299	70	76	71	74	52	49	53	57	34	53	50	42	55	42	36	43	59	42	39	45	45	49	47	40	1,223	100-299
50-99	74	60	65	59	48	48	40	57	48	58	40	46	28	36	35	25	29	37	33	29	26	30	36	37	1,024	50-99
10-29	56	42	61	35	47	34	41	51	35	37	29	24	23	29	33	38	29	16	24	25	16	22	28	25	800	10-29
30-49	53	66	37	37	43	36	30	36	28	27	24	23	29	17	19	26	26	28	24	24	18	23	19	19	712	30-49
300 workers or more	44	50	22	32	22	27	16	17	23	16	15	15	14	8	10	5	9	6	14	10	10	16	20	13	434	300 workers or more
9 workers or less	20	28	19	29	22	26	23	18	15	16	6	11	6	6	10	11	9	7	7	11	9	7	7	7	330	9 workers or less
total	317	322	275	266	234	220	203	236	183	207	164	161	155	138	143	148	161	136	141	144	124	147	157	141	4,523	total



Transition of occurred months of fatal and non-fatal accidents in 010601 pulp/paper in Japan (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	Month
July	24	33	27	23	18	18	11	18	18	13	18	9	9	11	10	15	11	9	13	14	7	15	12	17	373	July
October	31	28	17	19	16	23	23	17	11	22	12	10	7	11	14	10	11	8	15	15	11	15	8	15	369	October
November	17	26	17	32	20	9	14	25	10	18	14	17	14	13	14	8	14	13	1	6	6	9	13	15	345	November
January	32	23	25	24	24	19	21	21	15	19	25	21	18	13	9	12	8	15	14	10	12	9	11	13	413	January
May	26	28	21	21	17	9	24	17	20	17	12	4	21	13	11	13	11	13	11	13	17	16	11	13	379	May
June	30	28	15	22	17	20	13	15	12	13	10	4	15	14	13	12	19	10	12	14	8	12	13	13	354	June
September	27	36	25	21	17	20	18	19	12	17	7	17	7	4	15	10	14	13	12	10	8	7	7	12	355	September
August	30	24	33	22	15	20	22	23	18	16	10	16	6	13	11	17	12	10	14	16	13	17	27	11	416	August
February	30	24	22	16	25	24	15	20	19	21	16	11	11	13	13	14	12	11	14	10	9	13	12	10	385	February
December	20	21	27	24	19	19	13	20	16	20	20	15	13	12	14	13	17	9	12	10	11	10	17	9	381	December
April	21	16	19	19	20	12	9	24	14	13	6	13	13	14	8	10	18	10	11	11	8	11	12	9	321	April
March	29	35	27	23	26	27	20	17	18	18	14	24	21	7	11	14	14	15	12	15	14	13	14	4	432	March
total	317	322	275	266	234	220	203	236	183	207	164	161	155	138	143	148	161	136	141	144	124	147	157	141	4,523	total

Transition of prefectures of fatal and non-fatal accidents in 010601 pulp/paper in Japan (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	Prefecture
Shizuoka	88	74	71		65		49	59	35	53	44	37	27	24	26	32	39	32	34	32	37	36	36	30	960	Shizuoka
Ehime	44	35	34		29		35	33	34	34	23	21	26	21	29	23	22	19	18	18	12	22	14	17	563	Ehime
Hokkaido	14	16	11		5		13	13	7	9	16	5	8	9	5	6	11	7	7	8	10	9	6	10	205	Hokkaido
Saitama	9	4	10		3		11	9	11	7	5	4	2	6	10		5	10	2	5	5	2	5	8	133	Saitama
Gifu	18	22	20		20		10	7	9	15	9	17	11	7	11	11	9	10	10	14	7	8	10	7	262	Gifu
Tokushima	4	17	5		4		3	1	5	5	1	3	5	4	2	2	3	3	3	4		3	4	7	88	Tokushima

Aichi	5	8	9		4		4	2	3	4	8	2	3	6	2	4	3	4	11	6	7		5	6	106	Aichi
Kochi	29	33	23		21		8	6	12	13	8	12	8	8	7	8	8	9	7	7	3	12	6	5	253	Kochi
Toyama	5	1	3		3		4	4	3	3	4	4			1	2	5		5	1	3	3	2	5	61	Toyama
Okayama	1	5	4		3		4	4	2	4	3	1	2	5	2	2	1	2			2	1		5	53	Okayama
Fukui	8	3	8		6		3	7	4	1	2	3	1	1	1	3	2	3		4	2	1	2	4	69	Fukui
Saga	3	3			3		2	1		5	2	2			3	2	1	2	1			2	3	4	39	Saga
Shiga		4	2					1	3		2	2	2		1	3	2		2		1	2	3	4	34	Shiga
Hyogo	10	5			4		8	10	6	3	1	9	7	3	4	6	7	5	3	1	2	4	4	3	105	Hyogo
Ibaraki	4	8	3		3		3	5	3	3	3	2	4	2	4	4	3		1		2	1	7	3	68	Ibaraki
Fukuoka	2	8	5		3		2	9	5	2	2	1	5		4	1	3	1		4	2	1	3	3	66	Fukuoka
Kumamoto			1		1		2	4	3	1	1	2	1	3					2	1	3	2	2	3	32	Kumamoto
Osaka	8	6	9		5		10	10	3	13	4	3	6	8	6	10	3	4	8	5	6	10	7	2	146	Osaka
Tottori	3	2	1		2		1	1	6	4	2	1	1	2	3	4	3	2	3	1	4	4	3	2	55	Tottori
Mie			4		3		1	1	1	3	2	1	2	1					2			1	2	24	Mie	
Kagoshima	6	2	1				1	1		1	1					1	1	1		1		1		2	20	Kagoshima
Chiba	6	6	4		2		3	3		2	3		2	2	3	4	1	2	1	4		1	9	1	59	Chiba
Niigata	2	3	3		2		1	5	1	3	4	3	1	1		4	5	3	6	3	2	1	3	1	57	Niigata
Fukushima	3	4	3		3		2	2	3	2	1	4	3	6	1		2	3	1	1	5	2	1	1	53	Fukushima
Miyagi	4	7	1		2		2	2	2	1	2	1	2	1	2		2	1		1		3	2	1	39	Miyagi
Yamaguchi	5	3	1		3		2	2	2		1			2	1	1				2	1	1	3	1	31	Yamaguchi
Tokyo	3	3	3		1		2	1	2	1	1	3	1				2		1		1			1	26	Tokyo
Oita	2	3	1		1		1	1	1	1		1		1	1		1		1	2		1		1	20	Oita
Tochigi	3	2						3				1		1	2	1	2	1		1			1	1	19	Tochigi

Shimane	2	2					1		2		1				1	1		1			2		1	14	Shimane		
Kagawa	8	9	7		7		4	4	3	1	1	2	6	3	1	2	2								60	Kagawa	
Iwate	1	3	1		6		1	4	4	5	1	4	4	1	4	2	1		3	3	1	1	3		53	Iwate	
Ishikawa	1	3	4		3		1	7	1	1	2	1	2	1	1	2	1	2		4	2	3	2		44	Ishikawa	
Hiroshima	3	4	7		2		4		2		3	3	3	2		2	3	1		4			1		44	Hiroshima	
Yamanashi	2	2	5		2		5	5		1			2	2	2	2	2	1	2	1	1		2		39	Yamanashi	
Kanagawa	3	1	2		5			1	3					2	3	2	1	5	2			3			33	Kanagawa	
Aomori	2	1	3						2	2		1	5						3	1	1	1	2		24	Aomori	
Akita	1	1	2		3			1	1			2		2				3	2		3	1	1	1		24	Akita
Nagasaki	2	3	2					2		1									1							11	Nagasaki
Yamagata	1	2	2		3			2																		10	Yamagata
Gunma										1								1		1		1	2	2		8	Gunma
Kyoto	1	1					1	1					1	1						1				1		8	Kyoto
Miyazaki								1	1		1	2	1							1						7	Miyazaki
Nagano		2			2												1						1			6	Nagano
Okinawa											1		1		1											3	Okinawa
Nara	1																							1		2	Nara
Wakayama		1																								1	Wakayama
total	317	322	275	266	234	220	203	236	183	207	164	161	155	138	143	148	161	136	141	144	124	147	157	141	4,523	total	

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