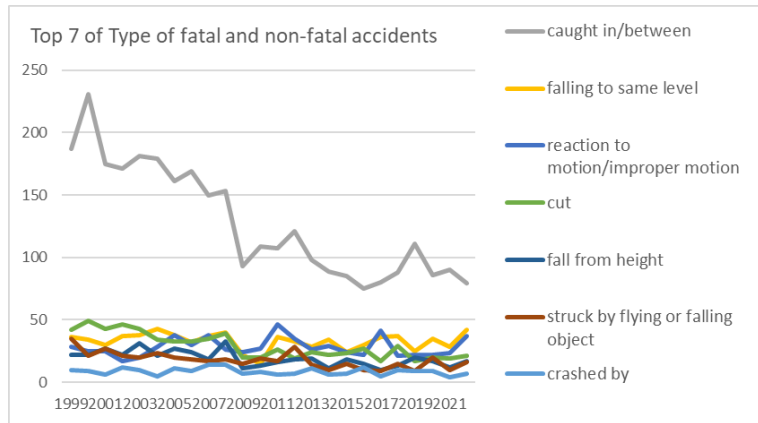
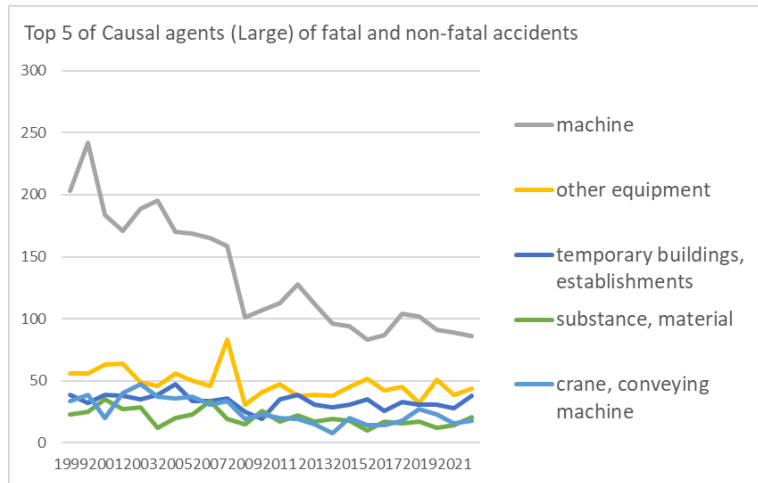


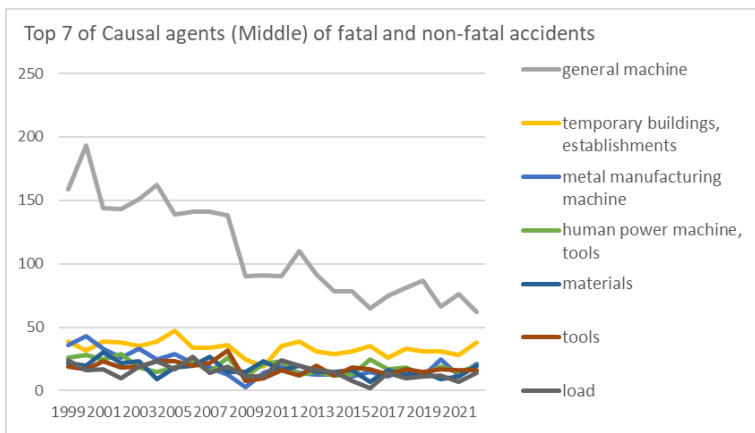
Transition of fatal and non-fatal accidents in 010806 rubber products in Japan (1999-2022)



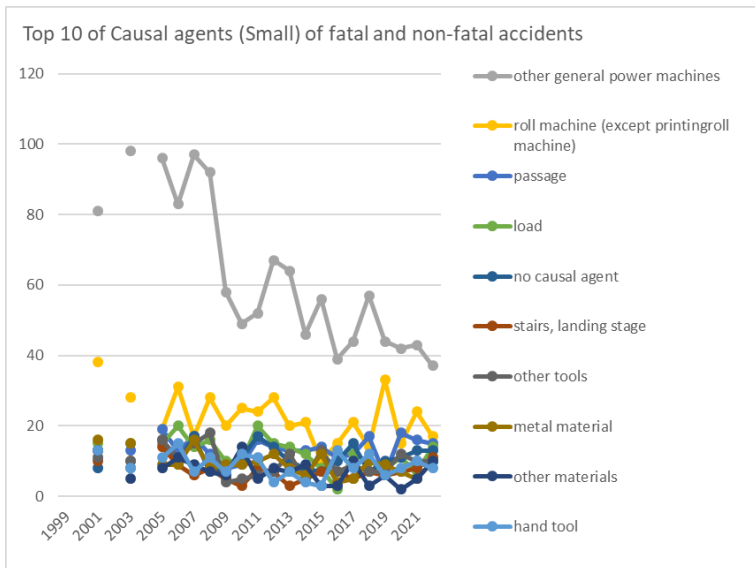
Transition of Top 7 of Type of fatal and non-fatal accidents in 010806 rubber products in Japan (1999-2022)



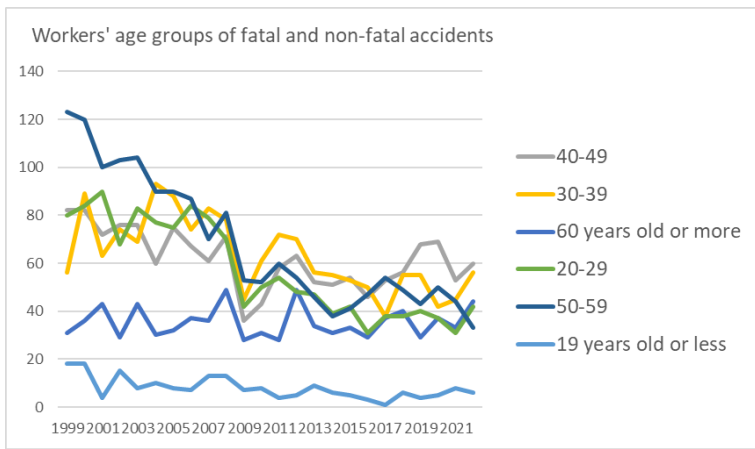
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 010806 rubber products in Japan (1999-2022)



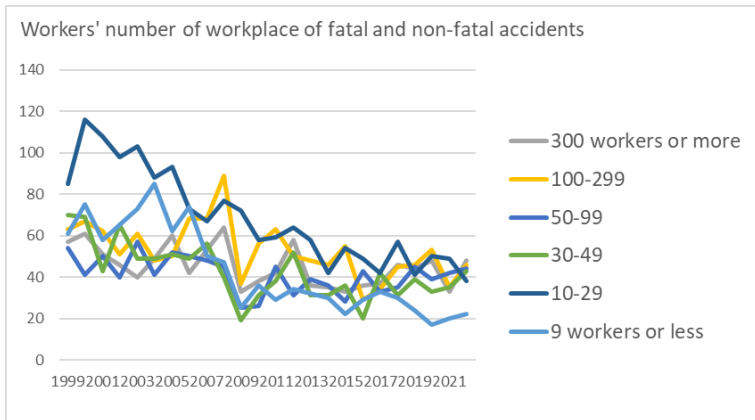
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 010806 rubber products in Japan (1999-2022)



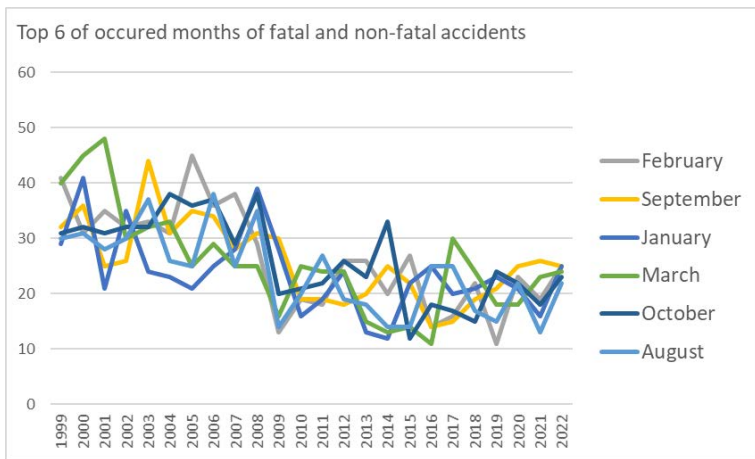
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 010806 rubber products in Japan (1999-2022)



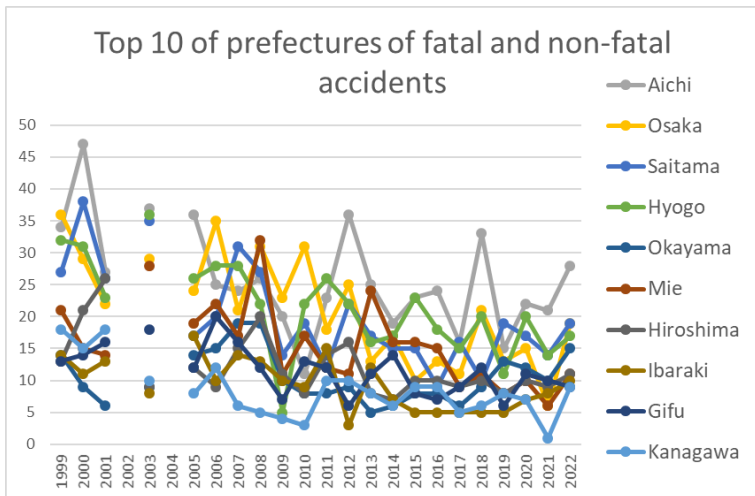
Transition of workers' age groups of fatal and non-fatal accidents in 010806 rubber products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 010806 rubber products in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 010806 rubber products in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 010806 rubber products in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 010806 rubber products 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	187	231	175	171	181	179	161	169	150	153	93	109	107	121	98	89	85	75	80	88	111	86	90	79	3,068	caught in/between
falling to same level	36	34	30	37	38	43	38	32	37	40	22	15	36	33	28	34	24	30	36	37	25	35	28	42	790	falling to same level

																												level
reaction to motion/improper motion	28	25	25	17	20	28	38	30	38	26	24	27	46	35	26	29	24	22	41	21	22	22	23	37	674	reaction to motion/improper motion		
cut	42	49	43	46	43	34	33	33	35	39	20	20	26	19	24	22	23	27	17	29	17	20	19	21	701	cut		
fall from height	22	22	27	22	31	21	27	24	18	33	11	13	16	18	19	11	18	15	10	13	20	17	12	17	457	fall from height		
struck by flying or falling object	35	21	27	21	20	23	20	18	17	18	15	19	17	28	14	10	15	10	9	15	9	20	10	16	427	struck by flying or falling object		
crashed by	10	9	6	12	10	5	11	9	14	14	7	8	6	7	11	6	7	12	5	10	9	9	4	7	208	crashed by		
contact to high/low-temperature	6	10	12	8	7	9	11	10	11	8	2	11	5	10	8	6	12	4	6	11	7	8	5	6	193	contact to high/low-temperature		
crash	9	17	12	13	9	11	14	16	9	13	7	10	9	11	5	4	10	7	9	8	9	12	8	5	237	crash		
collapse	7	6	4	5	8	3	3	4	2	3	3	4	1	3	5	3	7	2	3	2	4	1	3	5	91	collapse		
traffic accident (public road)	6	2		4	7	2	6	8	2	1	4	2	2	1	3	1	2		4	3	2		1	3	66	traffic accident (public road)		
others	1	1	2	2	1		1		2		1	1	1		2	1				1		7	10	2	36	others		
contact to harmful substance			4	5	3	1	2	3	1	5	1	3	1	3		1	1	2	1	3	2	2	1	1	46	contact to harmful substance		
explosion	1									6		1				1				1					10	explosion		
fire		2			1				2	1		1				2						1			10	fire		
injury to the sole of the foot			1	1			1		3		1		1							1					9	injury to the sole of the foot		
unclassifiable			2		1		1						1							1	1				7	unclassifiable		

electric shock			2		1	1									1											6	electric shock	
burst				1	2		1			2																	6	burst
traffic accident (others)										1			1														2	traffic accident (others)
drown													1														1	drown
total	390	429	372	365	383	360	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	241	7,045	total		

Transition of Causal agents (Large) of fatal and non-fatal accidents in 010806 rubber products 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	203	242	184	171	189	195	170	169	165	159	101	107	113	128	112	96	94	83	87	104	102	91	89	86	3,240	machine
other equipment	56	56	63	64	49	46	56	50	46	83	31	41	47	38	39	38	45	52	42	45	32	51	39	44	1,153	other equipment
temporary buildings, establishments	39	32	39	38	35	39	47	34	34	36	25	19	35	39	31	29	31	35	26	33	31	31	28	38	804	temporary buildings, establishments
substance, material	23	25	35	27	29	12	20	23	34	19	15	26	17	22	17	19	18	10	17	16	17	12	14	21	488	substance, material
crane, conveying machine	34	39	20	40	47	37	36	37	31	34	19	23	20	19	15	8	20	14	14	18	27	23	16	18	609	crane, conveying machine
load	24	16	17	10	19	23	17	27	14	19	11	11	24	20	16	15	8	2	14	10	11	12	7	14	361	load
others	9	18	11	13	13	6	18	14	17	10	8	13	18	16	12	10	9	10	18	9	14	17	18	14	315	others
environment	2	1	3	2	2	2	4	2	1	2	1	5	2	7	2	5	3		3	9	5	3	3	6	75	environment
total	390	429	372	365	383	360	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	241	7,045	total

natural environment	2	1	3	2	2	2	4	2	1	2	1	5	2	7	2	5	3		3	9	5	3	3	6	75	environment
power transmission mechanism	6	5	5	2	3	7	2	4	6	4	4	1	4	4	5	4	2	2	1	6	3		1	3	84	power transmission mechanism
vehicle	3	4		4	7	3	7	7	3	2	3	2	2	1	1	1	1	1	3	4	4	3	1	3	70	vehicle
crane	7	3	5	3	7	5	5	3	6	4	1	2	6	1	2	1	4		4	2		5	2	2	80	crane
pressure vessel	1	2	2	1	3	2	3	2	2	7	1	1	1	2	1		4	2			1			2	40	pressure vessel
hazards, harmful substances	1	5	5	5	6	3	2	3	7	4		3	1	2	2	4	2	3	1	3	2	3	3	1	71	hazards, harmful substances
other causal agent		9	1	2	4		1	4		1		2		2	2	2	2		2	1	3	5	5	1	49	other causal agent
kiln, caldron	1	1	2	1	1	1			1	3	1	1			1	5			1						20	kiln, caldron
woodworking machine	1	1			2			2		3	3	1				1	3	1			1				19	woodworking machine
unclassifiable	2		2	2	1		1			2			1						1	1	1	1			15	unclassifiable
electric equipment			2		1	1				1				1		1			2			4			13	electric equipment
chemical facilities	3	1		1	1								1	1					1	1					10	chemical facilities
engine	1		1			1					1														4	engine
construction machine			1							1								2							4	construction machine
welding equipment																			1						1	welding equipment

mobile silviculture machine																										mobile silviculture machine
total	390	429	372	365	383	360	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	241	7,045	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 010806 rubber products in Japan (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	Causal (S) agents
other general power machines			81		98		96	83	97	92	58	49	52	67	64	46	56	39	44	57	44	42	43	37	1,245	other general power machines
roll machine (except printingroll machine)			38		28		19	31	17	28	20	25	24	28	20	21	10	15	21	14	33	15	24	17	448	roll machine (except printingroll machine)
passage			13		13		19	13	17	12	8	9	16	14	13	13	14	11	12	17	6	18	16	15	269	passage
load			15		15		15	20	14	16	10	10	20	15	14	12	8	2	12	10	8	11	7	14	248	load
no causal agent			8		8		16	10	17	7	8	11	17	14	10	8	7	10	15	7	10	11	13	13	220	no causal agent
stairs, landing stage			10		10		14	9	6	8	5	3	8	7	3	5	7	7	5	7	6	7	8	11	146	stairs, landing stage
other tools			11		10		16	11	15	18	4	5	6	7	12	5	13	7	9	7	7	12	10	10	195	other tools
metal material			16		15		9	9	16	8	9	9	10	12	8	6	12	4	5	10	9	7	5	10	189	metal material
other materials			13		5		8	11	9	7	6	14	5	8	7	9	3	3	10	3	6	2	5	10	144	other materials
hand tool			13		8		11	15	7	11	7	12	11	4	7	4	3	13	8	12	6	8	10	8	178	hand tool
power press			9		12		8	9	2	5	1	4	5	4	6	2	4	2	4	5	1	11	5	8	107	power press
human power hauling equipment			10		10		6	7	5	15	4	8	12	8	7	6	8	12	9	5	6	9	4	6	157	human power hauling equipment
other equipment,			9		6		12	5	6	14	10	8	6	9	2	8	10	7	8	9	3	11	8	6	157	other equipment,

manufacturing machines			9		4		6	6	4	1	1	2	4	1	2	2	1	3		2	1	4	1	2	56	manufacturing machines
truck			1		5		5	7	1	1	3	4	2	7	2	2	2		4	2	2	1	1	2	54	truck
shearing machine			5		6		5	1	1			4	1	2	1	3	1	3	2	1	1	3	2	2	44	shearing machine
high/cold temperature environment			2		1		3	1	1			4	1	5	1	2	3		1	5	4	1	2	2	39	high/cold temperature environment
pressure vessel			2		3		1	2	1	6	1		1	2	1		2	2						2	26	pressure vessel
slinging tool			2					1		1	1	2	2			1	1	3	2	2			1	2	21	slinging tool
crane			3		6		5		4	2		1	3	1	2	1	4		2	2		4	1	1	42	crane
other causal agent			1		4		1	4		1		2		2	2	2	2		2	1	3	5	5	1	38	other causal agent
harmful substance			1		2		2	2		1		3	1	1		1	1	2		2	1	1	2	1	24	harmful substance
human power machine			2						1					1	1	2	2			1	1	1	1	1	14	human power machine
other powered crane										2	1	1							1			1		1	7	other powered crane
industrial robot							1					1	1						1				1		5	industrial robot
machine/equipment as load			2		4		2	7		3	1	1	4	5	2	3			2		3	1			40	machine/equipment as load
other powered conveying machines			1		4		4	1	4	1	1	3	1		1		1		1		4	3	3		34	other powered conveying machines
drill press, milling machine			3		2		1		3	2		1	1		1	1	2	3	1	2	1	3			27	drill press, milling machine
other hazards, harmful substances			3		3			1	2	3					2	2	1	1	1	1	1	2	1		24	other hazards, harmful substances

opening					1					1	1		1	2				2	1		2		2			13	opening	
elevator, lift			2		1			2	2				3						1					1			12	elevator, lift
unclassifiable			2		1		1			2			1						1	1	1	1					11	unclassifiable
circular sawing machine					1			2		1	3	1						1									10	circular sawing machine
roof, beam, haze, crossbeam, principal rafter			1		1			1	1	1	1				2			1									10	roof, beam, haze, crossbeam, principal rafter
inflammable substance			1		1					5				1		1											9	inflammable substance
lumber, bamboo			1		3		1		1				1					1							1		9	lumber, bamboo
kiln, caldron			1							1		1			1	4											8	kiln, caldron
industrial dryer			1		1					1	1					1											6	industrial dryer
other electrical equipment			1							1				1											3		6	other electrical equipment
boiler										1		1				2								1			5	boiler
chemical facilities					1								1	1					1	1							5	chemical facilities
transmission			1		1										1				2								5	transmission
water													1		1									1	1		4	water
other woodworking machines											1							1	1								3	other woodworking machines
excavating machine										1					2												3	excavating machine
centrifugal machine								1					1					1									3	centrifugal machine
printing machine					2						1																3	printing machine

equipment																									equipment		
electric power facilities																									1	1	electric power facilities
scaffolding																									1	1	scaffolding
standing tree																									1	1	standing tree
wood planer machine																											wood planer machine
chamfering machine, router, woodworking milling machine																											chamfering machine, router, woodworking milling machine
foundation work machine																											foundation work machine
hardening machine																											hardening machine
demolition machine																											demolition machine
vehicle for high lift work																											vehicle for high lift work
other construction machines																											other construction machines
felling machine																											felling machine
mobile logging machine																											mobile logging machine
skyline yarding machine																											skyline yarding machine
other mobile																											other mobile

silviculture machine																									silviculture machine	
derrick crane																									derrick crane	
cargo lifting appliance																									cargo lifting appliance	
gondola																									gondola	
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway	
simple skyline yarding equipment																									simple skyline yarding equipment	
loader																									loader	
straddle carrier																									straddle carrier	
rough terrain hauler																									rough terrain hauler	
railway vehicle																									railway vehicle	
gas welding equipment																									gas welding equipment	
arc welding equipment																									arc welding equipment	
timbering																									timbering	
explosive substance																									explosive substance	
inflammable gas																									inflammable gas	
radiation																									radiation	
abnormal environment																									abnormal environment	
total	390	429	372	365	383	360	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	241	7,045	total

Transition of workers' age groups of fatal and non-fatal accidents in 010806 rubber products 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	82	82	72	76	76	60	75	67	61	71	36	43	58	63	52	51	54	46	53	56	68	69	53	60	1,484	40-49
30-39	56	89	63	74	69	93	88	74	83	78	45	61	72	70	56	55	53	50	38	55	55	42	45	56	1,520	30-39
60 years old or more	31	36	43	29	43	30	32	37	36	49	28	31	28	49	34	31	33	29	37	40	29	37	33	44	849	60 years old or more
20-29	80	84	90	68	83	77	75	84	79	70	42	50	54	48	47	39	42	31	38	38	40	37	31	42	1,369	20-29
50-59	123	120	100	103	104	90	90	87	70	81	53	52	60	54	46	38	41	47	54	49	43	50	44	33	1,632	50-59
19 years old or less	18	18	4	15	8	10	8	7	13	13	7	8	4	5	9	6	5	3	1	6	4	5	8	6	191	19 years old or less
total	390	429	372	365	383	360	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	241	7,045	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 010806 rubber products 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
300 workers or more	57	61	51	46	40	49	60	42	53	64	33	38	42	58	36	35	33	36	37	46	44	48	33	48	1,090	300 workers or more
100-299	63	67	62	51	61	48	50	68	68	89	37	56	63	50	48	46	55	29	34	45	46	53	35	46	1,270	100-299
50-99	54	41	50	40	57	41	52	50	48	45	25	26	45	31	39	36	28	43	33	35	45	39	42	44	989	50-99
30-49	70	69	43	65	49	49	51	49	56	40	19	31	38	52	31	31	36	20	42	31	39	33	35	43	1,022	30-49
10-29	85	116	108	98	103	88	93	73	67	77	72	58	59	64	58	42	54	49	42	57	41	50	49	38	1,641	10-29
9 workers or less	61	75	58	65	73	85	62	74	50	47	25	36	29	34	32	30	22	29	33	30	24	17	20	22	1,033	9 workers or less
total	390	429	372	365	383	360	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	241	7,045	total

Transition of occurred months of fatal and non-fatal accidents in 010806 rubber products 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
February	41	31	35	32	33	31	45	36	38	29	13	19	18	26	26	20	27	14	16	22	11	23	19	25	630	February
September	32	36	25	26	44	31	35	34	28	31	30	19	19	18	20	25	22	14	15	19	21	25	26	25	620	September
January	29	41	21	35	24	23	21	25	28	39	28	16	19	24	13	12	22	25	20	21	23	21	16	25	571	January
March	40	45	48	30	32	33	25	29	25	25	16	25	24	24	15	13	14	11	30	24	18	18	23	24	611	March
October	31	32	31	32	32	38	36	37	29	38	20	21	22	26	23	33	12	18	17	15	24	22	18	23	630	October
August	30	31	28	30	37	26	25	38	25	35	14	20	27	19	18	14	14	25	25	17	15	22	13	22	570	August
May	24	45	29	25	38	28	28	29	28	24	14	18	21	28	30	14	17	15	16	20	18	16	9	22	556	May
November	37	37	32	25	19	24	33	29	20	28	19	23	26	25	24	17	19	24	20	28	26	16	25	19	595	November
July	34	33	37	43	31	35	32	28	31	31	20	22	30	19	21	15	22	15	12	17	23	15	19	17	602	July
December	28	27	25	25	22	32	30	23	29	24	15	20	25	26	13	12	17	17	17	21	15	21	14	16	514	December
June	35	36	34	27	36	32	33	27	22	29	11	19	21	24	23	27	21	10	18	26	23	22	12	12	580	June
April	29	35	27	35	35	27	25	21	39	29	11	23	24	30	18	18	21	18	15	14	22	19	20	11	566	April
total	390	429	372	365	383	360	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	241	7,045	total

Transition of prefectures of fatal and non-fatal accidents in 010806 rubber products 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
Aichi	34	47	27		37		36	25	24	26	20	11	23	36	25	19	23	24	16	33	15	22	21	28	572	Aichi
Osaka	36	29	22		29		24	35	21	31	23	31	18	25	13	17	10	13	11	21	13	15	6	19	462	Osaka
Saitama	27	38	26		35		17	20	31	27	14	19	12	22	17	15	15	9	16	10	19	17	14	19	439	Saitama
Hyogo	32	31	23		36		26	28	28	22	5	22	26	22	16	17	23	18	15	20	11	20	14	17	472	Hyogo
Okayama	14	9	6		9		14	15	19	19	10	8	8	9	5	6	8	8	6	9	13	12	10	15	232	Okayama
Mie	21	15	14		28		19	22	17	32	11	17	12	11	24	16	16	15	9	11	8	10	6	11	345	Mie
Hiroshima	13	21	26		9		12	9	15	20	11	8	14	16	8	7	10	10	9	10	8	10	9	11	266	Hiroshima

Ibaraki	14	11	13		8		17	10	14	13	10	9	15	3	12	7	5	5	5	5	5	7	8	10	206	Ibaraki
Gifu	13	14	16		18		12	20	16	12	7	13	12	6	11	14	8	7	9	12	6	11	10	9	256	Gifu
Kanagawa	18	15	18		10		8	12	6	5	4	3	10	10	8	6	9	9	5	6	8	7	1	9	187	Kanagawa
Shizuoka	21	19	18		16		25	14	17	22	13	15	15	19	11	7	7	9	16	11	8	10	9	8	310	Shizuoka
Nara	13	16	12		11		12	18	8	7	8	8	9	8	7	6	6	7	9	5	10	10	6	8	204	Nara
Chiba	12	17	9		10		9	9	15	12	8	11	6	8	6	8	9	4	4	5	13	8	7	8	198	Chiba
Fukushima	9	9	6		2		8	6	6	5	1	3	8	11	6	2	5	2	8	13	7	7	8	7	139	Fukushima
Shiga	6	6	7		4		5	4	2	6		2	1	4	5	6	1	3	9	2	5	4	5	7	94	Shiga
Fukuoka	7	20	9		14		16	11	10	10	9	9	12	16	7	6	5	5	10	9	11	8	9	6	219	Fukuoka
Saga		4	3		4		3	4	2	6	3	3	6	1	5		1	5	3	6	4	1	3	6	73	Saga
Tokyo	15	18	22		21		22	15	11	11	8	7	12	6	12	6	7	10	11	5	6	3	5	5	238	Tokyo
Tochigi	16	9	12		7		16	15	12	11	12	7	11	7	7	4	10	9	7	6	13	2	9	5	207	Tochigi
Gunma	7	18	5		9		8	4	5	9	1	5	2	2	5	3	6	5	6	8	8	5	5	4	130	Gunma
Niigata	3	1	5		2		2	9	6	4	1	2	4	3	5	4	1	1		4	5	5	4	4	75	Niigata
Miyagi	5	2	6		14		5	2	5	9	8	7	6	2	3	8	9		3	5	3	8	7	3	120	Miyagi
Oita	1		1					1	2	2	1			1	1	2	1	1	2		2	2	2	3	25	Oita
Hokkaido	6	4	7		9		5	3	6	4	4	1	2	6	3	1	2	4	2	6	3	7	6	2	93	Hokkaido
Miyazaki	6	5	8		5		5	6	2	4		3		5	1	3	3	1	7	1		6	4	2	77	Miyazaki
Toyama	3	4	6		3		3	4	10	3	2	3	2	5	2	3	6	1	2	1	1	3	2	2	71	Toyama
Kumamoto	2	5	2		1		2	5	4	2	2	1	1	3		2	2	1	4	2	1		1	2	45	Kumamoto
Shimane	3		2		1		6	4	3			1	6	4	1	1		1			2		2	2	39	Shimane
Tottori	2	4	2		1		1		1				1	1	1	1	1	1		1	2		2	2	24	Tottori
Ishikawa			2		2		1		2	1			1		1	2			3	2	1	1	2	2	23	Ishikawa

Kyoto	3	1	3		4		1	4	2	1			2	1	2		3	1	3	1	3	4		1	40	Kyoto	
Kagawa	1	2	4		2		1	2	1				1	1	1	1	3			1	4	2	5	1	33	Kagawa	
Yamagata	2	4	2		4		1	3		1	2	1	1		1		2			1		1		1	27	Yamagata	
Yamanashi		2			1		3			1			1		2	1	1	1	3		1			1	18	Yamanashi	
Fukui	1				2				2			2		1		1	1	1		2		1	1	1	16	Fukui	
Yamaguchi	6	12	7		5		9	6	6	6	3	3	5	4	4	7	3	9		3	8	7	4		117	Yamaguchi	
Wakayama	5	1	4		3		1	1	3	3	3	3	3	4	2	2	1	1	1	2	5	2	2		52	Wakayama	
Tokushima	6	3	5		4		4	4	2	5	3	1		2		4	2	1	1	1	1				49	Tokushima	
Nagano	2	4	1				1	1	1	4	2	2	2	2	1	5			2	2	3	1	1		37	Nagano	
Akita	2	3	3		2		2		1	4		1	1	1	1					1	2	1	1		26	Akita	
Ehime	2	2	4				3	1			2		3	1	1		1	3	2		1				26	Ehime	
Iwate		1					3	4	3	1		3	2		1				1				3		22	Iwate	
Aomori		1	3		1					1															6	Aomori	
Nagasaki		1							1								2	1							5	Nagasaki	
Kagoshima	1	1	1																1	1					5	Kagoshima	
Kochi																											Kochi
Okinawa																											Okinawa
total	390	429	372	365	383	360	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	241	7,045	total	

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