rubber products industry Code No.010806

Type of accidents in rubber 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	22	22	27	22	31	21	27	24	18	33	11	13	16	18	19	11	18	15	10	13	20	17	12	440	fall from height
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	748	falling to same level
crash	9	17	12	13	9	11	14	16	9	13	7	10	9	11	5	4	10	7	9	8	9	12	8	232	crash
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	411	struck by flying or falling object
collapse	7	6	4	5	8	3	3	4	2	3	3	4	1	3	5	3	7	2	3	2	4	1	3	86	collapse
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	201	crashed by
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	2,989	caught in/between
cut	42	49	43	46	43	34	33	33	35	39	20	20	26	19	24	22	23	27	17	29	17	20	19	680	cut
injury to the sole of the foot			1	1			1		3		1		1							1				9	injury to the sole of the foot
drown													1											1	drown
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	187	contact to high/low- temperature

contact to harmful																									contact to
			4	5	3	1	2	3	1	5	1	3	1	3		1	1	2	1	3	2	2	1	45	harmful
substance																									substance
electric shock			2		1	1									1						1			6	electric shock
explosion	1									6		1				1				1				10	explosion
burst				1	2		1			2														6	burst
fire		2			1				2	1		1				2						1		10	fire
traffic accident (public		2		4	7	2	6	8	2	1	4	2	2	1	3	1	2		4	3	2		1	63	traffic accident
road)								6		•						_							ľ	05	(public road)
traffic accident									1			1												2	traffic accident
(others)												Ľ													(others)
reaction to																									reaction to
motion/improper	28	25	25	17	20	28	38	30	38	26	24	27	46	35	26	29	24	22	41	21	22	22	23	637	motion/improper
motion																									motion
others	1	1	2	2	1		1		2		1	1	1		2	1				1		7	10	34	others
unclassifiable			2		1		1						1							1	1			7	unclassifiable
total	390	429	372	365	383	360	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	6,804	total

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

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	Causal (L)
Causar (L) agents		2000	2001	2002	2003	2004	2003	2000	2007	2000	2003	2010	2011	2012	2013	2014	2013	2010	2017	2010	2017	2020	2021	I I	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	3,154	machine
crane, conveying																									crane,

machine	34	39	20	40	47	37	36	37	31	34	19	23	20	19	15	8	20	14	14	18	27	23	16	591	conveying
machine																									machine
athor aguinment	56	56	63	64	49	46	56	50	46	83	31	41	47	38	39	38	45	52	42	45	32	51	39	1,109	other
other equipment	30	50	03	04	49	40	50	30	40	63	31	41	47	36	39	36	43	32	42	43	32	31	39	1,109	equipment
to many a many lavel discours																									temporary
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	766	buildings,
establistifferits																									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	467	substance,
substance, material	23	23	33	27	29	12	20	23	34	19	13	20	'	22			10				'	12	14	407	material
load	24	16	17	10	19	23	17	27	14	19	11	11	24	20	16	15	8	2	14	10	11	12	7	347	load
environment	2	1	3	2	2	2	4	2	1	2	1	5	2	7	2	5	3		3	9	5	3	3	69	environment
others	9	18	11	13	13	6	18	14	17	10	8	13	18	16	12	10	9	10	18	9	14	17	18	301	others
total	390	429	372	365	383	360	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	6,804	total

Causal agents (middle) of fatal and non-fatal accidents in rubber 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	1		1			1					1													4	engine
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	81	power transmission mechanism
woodworking machine	1	1			2			2		3	3	1				1	3	1			1			19	woodworking machine

construction machine			1							1					2									4	construction machine
metal manufacturing machine	36	43	33	26	33	25	29	22	18	13	3	14	19	14	13	13	11	15	11	17	11	25	12	456	metal manufacturing machine
general machine	159	193	144	143	151	162	139	141	141	138	90	91	90	110	92	78	78	65	75	81	87	66	76	2,590	general machine
mobile silviculture machine																									mobile silviculture machine
crane	7	3	5	3	7	5	5	3	6	4	1	2	6	1	2	1	4		4	2		5	2	78	crane
conveying machine	24	32	15	33	33	29	24	27	22	28	15	19	12	17	12	6	15	13	7	12	23	15	13	446	conveying machine
vehicle	3	4		4	7	3	7	7	3	2	3	2	2	1	1	1	1	1	3	4	4	3	1	67	vehicle
pressure vessel	1	2	2	1	3	2	3	2	2	7	1	1	1	2	1		4	2			1			38	pressure vessel
chemical facilities	3	1		1	1								1	1					1	1				10	chemical facilities
welding equipment																		1						1	welding equipment
kiln, caldron	1	1	2	1	1	1			1	3	1	1			1	5			1					20	kiln, caldron
electric equipment			2		1	1				1				1		1			2			4		13	electric equipment
human power machine, tools	26	28	25	29	18	15	18	23	15	26	11	21	23	13	15	12	13	25	17	18	13	19	15	438	human power

tools	19	17	23	18	19	23	23	20	22	32	8	10	16	12	20	12	18	17	13	17	15	17	16	407	tools
other equipments,	6	7	9	14	6	4	12	5	6	14	10	8	6	9	2	8	10	7	8	9	3	11	8		other equipments, facilities
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		temporary buildings, establishments
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	70	hazards, harmful substances
materials	22	20	30	22	23	9	18	20	27	15	15	23	16	20	15	15	16	7	16	13	15	9	11	397	materials
load	24	16	17	10	19	23	17	27	14	19	11	11	24	20	16	15	8	2	14	10	11	12	7	347	load
natural environment	2	1	3	2	2	2	4	2	1	2	1	5	2	7	2	5	3		3	9	5	3	3	69	natural environment
other causal agent		9	1	2	4		1	4		1		2		2	2	2	2		2	1	3	5	5	48	other causal agent
no causal agent	7	9	8	9	8	6	16	10	17	7	8	11	17	14	10	8	7	10	15	7	10	11	13	238	no causal agent
unclassifiable	2		2	2	1		1			2			1						1	1	1	1		15	unclassifiable
total	390	429	372	365	383	360	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	6,804	total

Causal agents (small) of fatal and non-fatal accidents in rubber 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												2	engine
power transmission mechanism		5	3	2	4	6	4	4	1	4	4	5	4	2	2	1	6	3	1	61	power transmission mechanism
circular sawing machine			1		2		1	3	1					1				1		∥10	circular sawing machine
band sawing machine			1											1						2	band sawing machine
wood planer machine																					wood planer machine
hollow chisel mortiser, wood borer							1													1	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																					chamfering machine, router, woodworking milling machine
chain saw													1							1	chain saw
other woodworking machines							1							1	1					3	other woodworking machines
leveling, transporting or loading machine		1																		1	leveling, transporting or loading machine
excavating machine							1					2								3	excavating machine
foundation work machine																					foundation work machine

hardening machine																					hardening machine
demolition machine																					demolition machine
vehicle for high lift																					vehicle for high lift
work																					work
other construction																					other construction
machines																					machines
lathe	6	8	5	2	3	5	1	2	4	4	1	3	2	4	2	6	5	4	3	70	lathe
drill press, milling	3	2	1		3	2		1	1		1	1	2	3	1	2	1	3		27	drill press, milling
machine	3													3				3		27	machine
grinding machine,	1	1	3	4	5			1	4	3	2	2	1		2	1	2		1	33	grinding machine,
buffing machine																			<u> </u>		buffing machine
power press	9	12	8	9	2	5	1	4	5	4	6	2	4	2	4	5	1	11	5	99	power press
forging pressure			1																	1	forging pressure
hammer																					hammer
shearing machine	5	6	5	1	1			4	1	2	1	3	1	3	2	1	1	3	2	42	shearing machine
other metal																					other metal
manufacturing	9	4	6	6	4	1	1	2	4	1	2	2	1	3		2	1	4	1	54	manufacturing
machines																					machines
centrifugal machine				1					1					1						3	centrifugal machine
mixer, grinder	8	8	7	11	8	5	5	2	3	7	3	5	8	4	2	2	5	7	5	105	mixer, grinder
roll machine (except																					roll machine (except
printingroll	38	28	19	31	17	28	20	25	24	28	20	21	10	15	21	14	33	15	24	431	printingroll
machine)																					machine)
injection molding																					injection molding

machine		17	15	17	14	18	13	6	14	9	8	5	6	4	6	8	7	5	2	4	178	machine
food manufacturing machine						1															1	food manufacturing
printing machine			2					1													3	printing machine
industrial robot					1				1	1							1				4	industrial robot
other general power machines		81	98	96	83	97	92	58	49	52	67	64	46	56	39	44	57	44	42	43	1,208	other general power machines
felling machine																						felling machine
mobile logging machine																						mobile logging
skyline yarding machine																						skyline yarding machine
other mobile silviculture machine																						other mobile silviculture machine
crane		3	6	5		4	2		1	3	1	2	1	4		2	2		4	1	41	crane
mobile crane					1																1	mobile crane
derrick crane																						derrick crane
elevator, lift		2	1		2	2				3						1				1	12	elevator, lift
cargo lifting appliance																						cargo lifting appliance
gondola																						gondola
lumberyard																						lumberyard
equipment, logging																						equipment, logging
cableway																						cableway

	 \square		<u> </u>		 <u> </u>	<u> </u>		<u> </u>		<u> </u>													
simple skyline																							simple skyline
yarding equipment																							yarding equipment
other powered																							other powered
crane								2		1							I			1		6	crane
truck		1		5	5	7	1	1	3	4	2	7	2	2	2		4	2	2	1	1	52	truck
forklift		6		12	8	10	8	13	7	7	4	5	1	3	5	8	2	3	7	5	1	115	forklift
railway equipment																		1				1	railway equipment
conveyor		7		12	7	9	9	13	4	5	5	5	8	1	7	4	1	5	10	6	8	126	conveyor
loader																							loader
straddle carrier																							straddle carrier
rough terrain hauler																							rough terrain hauler
other powered		1		4	4	1	4	1	1	3	1		1		1	1		1	4	3	3	34	other powered
conveying machines		'						<u> </u>	<u> </u>						'	<u> </u>						J-T	conveying machines
cars, bus,				7	7	6	3	2	3	2	1	1	1	1	1	1	3	3	4	3	1	50	cars, bus,
motorcycle												<u> </u>			<u> </u>								motorcycle
railway vehicle																							railway vehicle
other vehicles						1					1							1				3	other vehicles
boiler								1		1					2				1			5	boiler
pressure vessel		2		3	1	2	1	6	1		1	2	1		2	2						24	pressure vessel
other pressure					2		1															3	other pressure
vessels					2																	3	vessels
chemical facilities				1							1	1					1	1				5	chemical facilities
gas welding																							gas welding

equipment																						equipment
arc welding equipment																						arc welding equipment
other welding equipment															1						1	other welding equipment
kiln, caldron		1					1		1			1	4								8	kiln, caldron
industrial dryer		1	1				1	1					1			1					6	industrial dryer
other kiln, caldron						1	1														2	other kiln, caldron
transmission		1	1										1			2					5	transmission
electric power facilities																			1		1	electric power
other electrical equipment		1					1				1								3		6	other electrical equipment
human power cranes				1	1	2			1										1		6	human power cranes
human power hauling equipment		10	10	6	7	5	15	4	8	12	8	7	6	8	12	9	5	6	9	4	151	human power hauling equipment
human power		2				1					1	1	2	2			1	1	1	1	13	human power machine
hand tool		13	8	11	15	7	11	7	12	11	4	7	4	3	13	8	12	6	8	10	170	hand tool
ladder		10	9	7	8	7	13	3	3	8	5	8	6	4	7	2	8	8	5	5	126	ladder
slinging tool		2			1		1	1	2	2			1	1	3	2	2			1	19	slinging tool
other tools		11	10	16	11	15	18	4	5	6	7	12	5	13	7	9	7	7	12	10	185	other tools
other equipment,																						other equipment,

facilities		9	6	12	5	6	14	10	8	6	9	2	8	10	7	8	9	3	11	8	151	facilities
scaffolding																		1			1	scaffolding
timbering																						timbering
stairs, landing stage		10	10	14	9	6	8	5	3	8	7	3	5	7	7	5	7	6	7	8	135	stairs, landing stage
opening			1				1	1		1	2				2	1		2		2	13	opening
roof, beam, haze, crossbeam, principal rafter		1	1		1	1	1	1				2		1				1			10	roof, beam, haze, crossbeam, principal rafter
working platform, boot board		8	4	6	4	4	7	3	3	4	7	5	4	5	10	3	5	8	2		92	working platform, boot board
passage		13	13	19	13	17	12	8	9	16	14	13	13	14	11	12	17	6	18	16	254	passage
building, establishment		1	5	4	6	3	5	5	2	4	4	3	5	1	4	3	4	4	3	1	67	building, establishment
other temporary buildings, establishments		6	1	4	1	3	2	2	2	2	5	5	2	3	1	2		3	1	1	46	other temporary buildings, establishments
explosive substance																						explosive substance
inflammable substance		1	1			5					1		1								9	inflammable substance
inflammable gas																						inflammable gas
harmful substance		1	2	2	2		1		3	1	1		1	1	2		2	1	1	2	23	harmful substance
radiation																						radiation
other hazards,		3	3		1	2	3					2	2	1	1	1	1	1	2	1	24	other hazards,

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metal material	1	6	15	9	9	16	8	9	9	10	12	8	6	12	4	5	10	9	7	5	179	metal material
lumber, bamboo	1		3	1		1				1						1				1	9	lumber, bamboo
stone, sand, substance						1								1							2	stone, sand, substance
other materials	1	3	5	8	11	9	7	6	14	5	8	7	9	3	3	10	3	6	2	5	134	other materials
load	1	5	15	15	20	14	16	10	10	20	15	14	12	8	2	12	10	8	11	7	234	load
machine/equipment as load	2	2	4	2	7		3	1	1	4	5	2	3			2		3	1		40	machine/equipment as load
natural ground, rock	1		1														1				3	natural ground, rock
standing tree																1					1	standing tree
water										1		1						1	1		4	water
abnormal environment																						abnormal environment
high/cold temperature environment	2	2	1	3	1	1			4	1	5	1	2	3		1	5	4	1	2		high/cold temperature environment
other environments				1	1		2	1	1		2		3			1	3		1	1	17	other environments
other causal agent	1		4	1	4		1		2		2	2	2	2		2	1	3	5	5	37	other causal agent
no causal agent	8	3	8	16	10	17	7	8	11	17	14	10	8	7	10	15	7	10	11	13	207	no causal agent
unclassifiable	2	2	1	1			2			1						1	1	1	1		11	unclassifiable
total	3	372	383	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	5,260	total

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	18	18	4	15	8	10	8	7	13	13	7	8	4	5	9	6	5	3	1	6	4	5	8	185	19 years old or less
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	1,327	20-29
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	1,464	30-39
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	1,424	40-49
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	1,599	50-59
60 years old or	31	36	43	29	43	30	32	37	36	49	28	31	28	49	34	31	33	29	37	40	29	37	33	805	60 years old or
more			TJ		T3																			l 1	more
total	390	429	372	365	383	360	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	6,804	total

Workers' number of workplace of fatal and non-fatal accidents in rubber 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	61	75	58	65	73	85	62	74	50	47	25	36	29	34	32	30	22	29	33	30	24	17	20	1,011	9 workers or less
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	1,603	10-29
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	979	30-49
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	945	50-99
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	1,224	100-299
300 workers or	57	61	51	46	40	49	60	42	53	64	33	38	42	58	36	35	33	36	37	46	44	48	33	1,042	300 workers or
more																								'	more
total	390	429	372	365	383	360	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	6,804	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	29	41	21	35	24	23	21	25	28	39	28	16	19	24	13	12	22	25	20	21	23	21	16	546	January
February	41	31	35	32	33	31	45	36	38	29	13	19	18	26	26	20	27	14	16	22	11	23	19	605	February
March	40	45	48	30	32	33	25	29	25	25	16	25	24	24	15	13	14	11	30	24	18	18	23	587	March
April	29	35	27	35	35	27	25	21	39	29	11	23	24	30	18	18	21	18	15	14	22	19	20	555	April
May	24	45	29	25	38	28	28	29	28	24	14	18	21	28	30	14	17	15	16	20	18	16	9	534	May
June	35	36	34	27	36	32	33	27	22	29	11	19	21	24	23	27	21	10	18	26	23	22	12	568	June
July	34	33	37	43	31	35	32	28	31	31	20	22	30	19	21	15	22	15	12	17	23	15	19	585	July
August	30	31	28	30	37	26	25	38	25	35	14	20	27	19	18	14	14	25	25	17	15	22	13	548	August
September	32	36	25	26	44	31	35	34	28	31	30	19	19	18	20	25	22	14	15	19	21	25	26	595	September
October	31	32	31	32	32	38	36	37	29	38	20	21	22	26	23	33	12	18	17	15	24	22	18	607	October
November	37	37	32	25	19	24	33	29	20	28	19	23	26	25	24	17	19	24	20	28	26	16	25	576	November
December	28	27	25	25	22	32	30	23	29	24	15	20	25	26	13	12	17	17	17	21	15	21	14	498	December
total	390	429	372	365	383	360	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	6,804	total

Prefecture of fatal and non-fatal accidents in rubber products in 1999-2021

Prefecture 1	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	6	4	7		9		5	3	6	4	4	1	2	6	3	1	2	4	2	6	3	7	6	91	Hokkaido
Aomori		1	3		1					1														6	Aomori
lwate		1					3	4	3	1		3	2		1				1				3	22	lwate

Miyagi	5	2	6	14	5	2	5	9	8	7	6	2	3	8	9		3	5	3	8	7	117	Miyagi
Akita	2	3	3	2	2		1	4		1	1	1	1					1	2	1	1	26	Akita
Yamagata	2	4	2	4	1	3		1	2	1	1		1		2			1		1		26	Yamagata
Fukushima	9	9	6	2	8	6	6	5	1	3	8	11	6	2	5	2	8	13	7	7	8	132	Fukushima
Ibaraki	14	11	13	8	17	10	14	13	10	9	15	3	12	7	5	5	5	5	5	7	8	196	lbaraki
Tochigi	16	9	12	7	16	15	12	11	12	7	11	7	7	4	10	9	7	6	13	2	9	202	Tochigi
Gunma	7	18	5	9	8	4	5	9	1	5	2	2	5	3	6	5	6	8	8	5	5	126	Gunma
Saitama	27	38	26	35	17	20	31	27	14	19	12	22	17	15	15	9	16	10	19	17	14	420	Saitama
Chiba	12	17	9	10	9	9	15	12	8	11	6	8	6	8	9	4	4	5	13	8	7	190	Chiba
Tokyo	15	18	22	21	22	15	11	11	8	7	12	6	12	6	7	10	11	5	6	3	5	233	Tokyo
Kanagawa	18	15	18	10	8	12	6	5	4	3	10	10	8	6	9	9	5	6	8	7	1	178	Kanagawa
Niigata	3	1	5	2	2	9	6	4	1	2	4	3	5	4	1	1		4	5	5	4	71	Niigata
Toyama	3	4	6	3	3	4	10	3	2	3	2	5	2	3	6	1	2	1	1	3	2	69	Toyama
Ishikawa			2	2	1		2	1			1		1	2			3	2	1	1	2	21	Ishikawa
Fukui	1			2			2			2		1		1	1	1		2		1	1	15	Fukui
Yamanashi		2		1	3			1			1		2	1	1	1	3		1			17	Yamanashi
Nagano	2	4	1		1	1	1	4	2	2	2	2	1	5			2	2	3	1	1	37	Nagano
Gifu	13	14	16	18	12	20	16	12	7	13	12	6	11	14	8	7	9	12	6	11	10	247	Gifu
Shizuoka	21	19	18	16	25	14	17	22	13	15	15	19	11	7	7	9	16	11	8	10	9	302	Shizuoka
Aichi	34	47	27	37	36	25	24	26	20	11	23	36	25	19	23	24	16	33	15	22	21	544	Aichi
Mie	21	15	14	28	19	22	17	32	11	17	12	11	24	16	16	15	9	11	8	10	6	334	Mie
Shiga	6	6	7	4	5	4	2	6		2	1	4	5	6	1	3	9	2	5	4	5	87	Shiga
Kyoto	3	1	3	4	1	4	2	1			2	1	2		3	1	3	1	3	4		39	Kyoto

Osaka	36	29	22	29	24	35	21	31	23	31	18	25	13	17	10	13	11	21	13	15	6	443	Osaka
Hyogo	32	31	23	36	26	28	28	22	5	22	26	22	16	17	23	18	15	20	11	20	14	455	Hyogo
Nara	13	16	12	11	12	18	8	7	8	8	9	8	7	6	6	7	9	5	10	10	6	196	Nara
Wakayama	5	1	4	3	1	1	3	3	3	3	3	4	2	2	1	1	1	2	5	2	2	52	Wakayama
Tottori	2	4	2	1	1		1				1	1	1	1	1	1		1	2		2	22	Tottori
Shimane	3		2	1	6	4	3			1	6	4	1	1		1			2		2	37	Shimane
Okayama	14	9	6	9	14	15	19	19	10	8	8	9	5	6	8	8	6	9	13	12	10	217	Okayama
Hiroshima	13	21	26	9	12	9	15	20	11	8	14	16	8	7	10	10	9	10	8	10	9	255	Hiroshima
Yamaguchi	6	12	7	5	9	6	6	6	3	3	5	4	4	7	3	9		3	8	7	4	117	Yamaguchi
Tokushima	6	3	5	4	4	4	2	5	3	1		2		4	2	1	1	1	1			49	Tokushima
Kagawa	1	2	4	2	1	2	1				1	1	1	1	3			1	4	2	5	32	Kagawa
Ehime	2	2	4		3	1			2		3	1	1		1	3	2		1			26	Ehime
Kochi																							Kochi
Fukuoka	7	20	9	14	16	11	10	10	9	9	12	16	7	6	5	5	10	9	11	8	9	213	Fukuoka
Saga		4	3	4	3	4	2	6	3	3	6	1	5		1	5	3	6	4	1	3	67	Saga
Nagasaki		1					1								2	1						5	Nagasaki
Kumamoto	2	5	2	1	2	5	4	2	2	1	1	3		2	2	1	4	2	1		1	43	Kumamoto
Oita	1		1			1	2	2	1			1	1	2	1	1	2		2	2	2	22	Oita
Miyazaki	6	5	8	5	5	6	2	4		3		5	1	3	3	1	7	1		6	4	75	Miyazaki
Kagoshima	1	1	1														1	1				5	Kagoshima
Okinawa																							Okinawa
total	390	429	372	383	368	356	342	362	211	245	276	289	244	220	228	206	221	244	239	240	214	6,079	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 rubber products in Japan in 1999-2021

rubber products industry Code No.010806

Type of fatal accidents in rubber 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					2					1							1				1			5	fall from height
falling to same level	1						1			1														3	falling to same
																									level
crash																									crash
struck by flying or	1		1		1																			2	struck by flying
falling object																								3	or falling object
collapse			1					1																2	collapse
crashed by																	1							1	crashed by
caught in/between	1	4	1	2		2	2	1	1	4		1	1	1	1	1	1				1	1	2	28	caught
caugiit iii/ betweeii																								20	in/between
cut																									cut

injury to the sole of the foot																							injury to the sole
drown													1									1	drown
contact to high/low- temperature																							contact to high/low- temperature
contact to harmful substance												1										1	contact to harmful substance
electric shock																							electric shock
explosion																							explosion
burst																							burst
fire																							fire
traffic accident (public road)				1	1						1		1		1							5	traffic accident (public road)
traffic accident (others)																							traffic accident (others)
reaction to motion/improper motion																							reaction to motion/improper motion
others																							others
unclassifiable							1															1	unclassifiable
total	3	4	3	3	4	2	4	2	1	6	1	2	3	1	2	1	3		2	1	2	50	total

Causal (L) agents	1999	2000	2001	2002	2 2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	3 2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (L) agents
machine	1	3	1	1	1	1	1	1	1	2		1	1		1	1	1					1		19	machine
crane, conveying machine	2	1		2	3	1	2			2	1		1		1		1						2	19	crane, conveying machine
other equipment			1							1				1							1			4	other equipment
temporary buildings, establishments										1							1				1			3	temporary buildings, establishments
substance, material			1									1												2	substance, material
load								1																1	load
environment													1											1	environment
others							1																	1	others
total	3	4	3	3	4	2	4	2	1	6	1	2	3	1	2	1	3				2	1	2	50	total

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

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2000	2010	2011	2012	2013	2014	2015	2016	2017	2018	2010	2020	2021	total	Causal (M)
Lausai (IVI) ageiits	1333	2000	2001	2002	2003	2004	2003	2000	2007	2008	2009	2010	2011	2012	2013	2014	2013	2010	2017	2010	2019	2020	2021	totai	agents

engine																						engine
power transmission mechanism																						power transmission mechanism
woodworking machine																						woodworking machine
construction machine														1							1	construction machine
metal manufacturing machine										1											1	metal manufacturing machine
general machine	1	3	1	1	1	1	1	1	1	1		1	1		1	1			1		17	general machine
mobile silviculture machine																						mobile silviculture machine
crane																				1	1	crane
conveying machine	2	1		2	2	1	2			2	1			1		1				1	16	conveying machine
vehicle					1								1								2	vehicle
pressure vessel																						pressure vessel
chemical facilities																						chemical facilities
welding equipment																						welding equipment

<u> </u>]	
kiln, caldron																kiln, caldron
electric equipment																electric
erecure equipment																equipment
human power machine,						1									1	human power
tools																machine, tools
tools	1														1	tools
other equipments,																other
facilities									1				1		2	equipments,
																facilities
temporary buildings,																temporary
establishments						1					1		1		3	buildings,
																establishments
hazards, harmful																hazards,
substances							1								1	harmful
																substances
materials	1														1	materials
load					1										1	load
natural environment								1							1	natural
inatural environment								ľ							'	environment
other causal agent																other causal
other causar agent																agent
no causal agent																no causal
no causar agent																agent
unclassifiable				1											1	unclassifiable
	 		 			 				$\overline{}$	$\overline{}$		 	 		1

total	3	4	3	3	4	2	4	2	1	6	1	2	3	1	2	1	3				2	1	2	50	total	
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Causal agents (small) of fatal accidents in rubber 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																									engine
power transmission																									power transmission
mechanism																									mechanism
circular sawing																									circular sawing
machine																									machine
band sawing																									band sawing
machine																									machine
wood planer																									wood planer
machine																									machine
hollow chisel																									hollow chisel
mortiser, wood																									mortiser, wood
borer																									borer
chamfering																									chamfering
machine, router,																									machine, router,
woodworking																									woodworking
milling machine																									milling machine
chain saw																									chain saw
other woodworking																									other woodworking
machines																									machines

leveling,														leveling,
transporting or														transporting or
loading machine														loading machine
excavating machine								1					1	excavating machine
foundation work														foundation work
machine														machine
hardening machine														hardening machine
demolition machine														demolition machine
vehicle for high lift														vehicle for high lift
work														work
other construction														other construction
machines														machines
lathe					1								1	lathe
drill press, milling														drill press, milling
machine														machine
grinding machine,														grinding machine,
buffing machine														buffing machine
power press														power press
forging pressure														forging pressure
hammer														hammer
shearing machine														shearing machine
other metal														other metal
manufacturing														manufacturing
machines														machines

centrifugal machine																					centrifugal machine
mixer, grinder	1			1			1		1					1						5	mixer, grinder
roll machine (except printingroll machine)		1									1										roll machine (except printingroll machine)
injection molding																					injection molding machine
food manufacturing																					food manufacturing machine
printing machine																					printing machine
industrial robot												1								1	industrial robot
other general power machines		2	1		1	1		1		1					1			1		9	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																					crane
mobile crane																					mobile crane
derrick crane																					derrick crane
elevator, lift																			1	1	elevator, lift

cargo lifting																	cargo lifting
appliance																	appliance
gondola																	gondola
lumberyard																	lumberyard
equipment, logging																	equipment, logging
cableway																	cableway
simple skyline																	simple skyline
yarding equipment																	yarding equipment
other powered																	other powered
crane																	crane
truck			1						1							2	truck
forklift	2			2	1	1		1				1				8	forklift
railway equipment																	railway equipment
conveyor		1	1			1		1			1				1	6	conveyor
loader																	loader
straddle carrier																	straddle carrier
rough terrain hauler																	rough terrain hauler
other powered																	other powered
conveying machines																	conveying machines
cars, bus,																	cars, bus,
motorcycle																2	motorcycle
railway vehicle																	railway vehicle
other vehicles																	other vehicles
boiler																	boiler

	 	 ==	 	 									
pressure vessel													pressure vessel
other pressure													other pressure
vessels													vessels
chemical facilities													chemical facilities
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													human power
cranes													cranes
human power					1							1	human power
hauling equipment													hauling equipment
human power													human power
machine													machine

hand tool															hand tool
ladder															ladder
slinging tool		1												1	slinging tool
other tools															other tools
other equipment,								1				1		2	other equipment,
scaffolding															scaffolding
timbering															timbering
stairs, landing stage															stairs, landing stage
opening															opening
roof, beam, haze, crossbeam, principal rafter										1		1		2	roof, beam, haze, crossbeam, principal rafter
working platform, boot board															working platform, boot board
passage															passage
building, establishment						1								1	building, establishment
other temporary buildings, establishments															other temporary buildings, establishments
explosive substance															explosive substance
inflammable substance															inflammable substance

	 		 	 		 	 		 	 	 	 	 		4
inflammable gas															inflammable gas
harmful substance							1							1	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					1									1	load
machine/equipment															machine/equipment
as load															as load
natural ground,															natural ground,
rock															rock
standing tree															standing tree
water								1						1	water
abnormal															abnormal
environment															environment
high/cold															high/cold
temperature															temperature
environment															environment
other environments															other environments
other causal agent															other causal agent

no causal agent																							no causal agent
unclassifiable							1															1	unclassifiable
total	3	4	3	3	4	2		2	1	6	1	2	3	1	2	1	3		2	1	2	50	total

Workers age of fatal accidents in rubber 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			1								3	19 years old or less
20-29		1		1	1	1		1	1														1	7	20-29
30-39				1			2			2		1									1			7	30-39
40-49	2	3	2	1	1		2														1		1	13	40-49
50-59			1		2	1		1		2			1	1	1		3					1		14	50-59
60 years old or	1									2	1		1		1									6	60 years old or
more	<u> </u>										<u> </u>		1											-	more
total	3	4	3	3	4	2	4	2	1	6	1	2	3	1	2	1	3				2	1	2	50	total

Workers' number of workplace of fatal accidents in rubber 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			1					1				1												3	9 workers or less
10-29	1			3	1				1	1	1						1				1			10	10-29
30-49						1		1		1		1	1				1							6	30-49
50-99	1				1	1									1									4	50-99
				\Box						\Box			\Box	\Box	\sqcap			\Box							

100-299					2		1			1			1		1							6	100-299
300 workers or	1	4	2				2			2			1	1		1	1		1	1	,	21	300 workers or
more							3			3			1			I	I		1			II	more
total	3	4	3	3	4	2	4	2	1	6	1	2	3	1	2	1	3		2	1	2	50	total

Month of fatal accidents in rubber products in 1999-2021

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													4	January
February			1							1				1										3	February
March	1			2								1	1											5	March
April		1				1		1																3	April
May		1	1														2							4	May
June	1	1																			1	1		4	June
July		1					1									1								3	July
August				1	1		1	1																4	August
September					1	1	1			1					1						1		1	7	September
October							1			2		1			1									5	October
November													1											1	November
December			1		1					2			1				1						1	7	December
total	3	4	3	3	4	2	4	2	1	6	1	2	3	1	2	1	3				2	1	2	50	total

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																									Hokkaido
Aomori																									Aomori
lwate												1												1	lwate
Miyagi													1				1							2	Miyagi
Akita																									Akita
Yamagata																									Yamagata
Fukushima				1		1																		2	Fukushim
Ibaraki	1									1														2	Ibaraki
Tochigi			1								1													2	Tochigi
Gunma	1	1	1																					3	Gunma
Saitama																									Saitama
Chiba												1												1	Chiba
Tokyo		1																						1	Tokyo
Kanagawa			1												1						1			3	Kanagaw
Niigata																									Niigata
Toyama																					1			1	Toyama
Ishikawa				1																				1	Ishikawa
Fukui																									Fukui
Yamanashi																									Yamanasl
Nagano																									Nagano
Gifu																	1							1	Gifu

Shizuoka				1		1														2	Shizuoka
Aichi				1		1		1	1				1					1		6	Aichi
Mie				1	1						1			1						4	Mie
Shiga		1				1						1								3	Shiga
Kyoto																					Kyoto
Osaka									1											1	Osaka
Hyogo							1												1	2	Hyogo
Nara	1	1																		2	Nara
Wakayama																					Wakayama
Tottori																					Tottori
Shimane						1					1									2	Shimane
Okayama															1					1	Okayama
Hiroshima							1		2											3	Hiroshima
Yamaguchi																			1	1	Yamaguchi
Tokushima																					Tokushima
Kagawa																					Kagawa
Ehime																					Ehime
Kochi																					Kochi
Fukuoka									1											1	Fukuoka
Saga																					Saga
Nagasaki			1																	1	Nagasaki
Kumamoto																					Kumamoto
Oita																					Oita

Miyazaki					1																	1	Miyazaki
Kagoshima																							Kagoshima
Okinawa																							Okinawa
total	3	4	3	3	4	2	4	2	1	6	1	2	3	1	2	1	3		2	1	2	50	total

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

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