Fatal and non-fatal accidents in silk-reeling in Japan in 1999-2022

silk-reeling industry Code No.010201

Type of accidents in silk-reeling 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	8		1	2	1	1	2				1												2		18
falling to same level	6	6	3	7	3	3	2	1				2		2	1		1	1		1	1				40
crash	3	3			1		2			1						1		1						1	13
struck by flying or falling object			1							1															2
collapse						1																			1
crashed by	2		1			1												1					1		6
caught in/between	8	16	8	4	6	3	2	6		2		3	6	5	1	2	1	1	3	1	1	2	2	3	86
cut	1	4	3				1				1			1		1		2					1		15
injury to the sole of the foot																									
drown																									
contact to high/low-		1	1	1			1					1						2			1				8

temperature																									
contact to harmful substance	1		1																				1		3
electric shock																				1					1
explosion																									
burst																									
fire																									
traffic accident (public road)				1																2					3
traffic accident (others)																									
reaction to motion/improper motion	1	2	1	1		1			2			1									1	1	1		12
others											1														1
unclassifiable																									
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209

Causal agents (large) of fatal and non-fatal accidents in silk-reeling 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	11	16	10	3	5	7	1	5		2		2	5	5	1	2	1	2	2	2		2	2	2	88

crane, conveying machine	3	4	1	2	2		2									1		2		2			1		20
other equipment	4	4	5	3	1	2	3				2	1		2		1		2		1			2	1	34
temporary buildings, establishments	7	4	2	5	1	1		1				2		1	1		1	1			1		1		29
substance, material	4	1	1		1		2			1		1						1					2	1	15
load	1	3		1	1		1	1	1	1									1		1				12
environment			1																						1
others				2			1		1		1	1	1								2	1			10
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209

Causal agents (middle) of fatal and non-fatal accidents in silk-reeling 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			1						1		1										1	6
woodworking machine																		1							1

construction machine																									
metal manufacturing machine	1																								1
general machine	9	16	9	3	5	6	1	5		2		1	5	4	1	2	1	1	2	2		2	2	1	80
mobile silviculture machine																									
crane	1	1		1														1							4
conveying machine	2	2	1		2		2									1		1					1		12
vehicle		1		1																2					4
pressure vessel			1	1																					2
chemical facilities																									
welding equipment																									
kiln, caldron						1																			1
electric equipment																									
human power machine, tools	1	2	1				1				1	1												1	8
tools	3	1	2	2			2				1			2		1		1		1			2		18

other equipments, facilities		1	1		1	1												1							5
temporary buildings, establishments	7	4	2	5	1	1		1				2		1	1		1	1			1		1		29
hazards, harmful substances	1		1									1						1					1		5
materials	3	1			1		2			1													1	1	10
load	1	3		1	1		1	1	1	1									1		1				12
natural environment			1																						1
other causal agent											1		1								1				3
no causal agent				2			1		1			1									1	1			7
unclassifiable																									
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209

Causal agents (small) of fatal and non-fatal accidents in silk-reeling 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		1										1	4

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																		1							1
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																									
roll machine (except printingroll			2					1					2	2			1	1		1		1	1	1	13

machine)																									
injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines			7		5		1	4		2		1	3	2	1	2			2	1		1	1		33
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																		1							1
mobile crane																									
derrick crane																									
elevator, lift																									
cargo lifting appliance																									

gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck							1																1		2
forklift			1		1																				2
railway equipment																									
conveyor					1		1									1		1							4
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle																				2					2
railway vehicle																									
other vehicles																									

boiler																									
pressure vessel			1																						1
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																								1	1
human power																									

hauling equipment							1					1													2
human power machine																									
hand tool			1								1														2
ladder			2				1				1												1		5
slinging tool																									
other tools							1							2		1		1		1			1		7
other equipment, facilities			1		1													1							3
scaffolding														1											1
timbering																									
stairs, landing stage			1														1								2
opening																									
roof, beam, haze, crossbeam, principal rafter												1													1
working platform, boot board																									
passage					1							1			1						1		1		5
building, establishment			1															1							2

other temporary buildings, establishments								1																	1
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance			1									1													2
radiation																									
other hazards, harmful substances																		1					1		2
metal material																									
lumber, bamboo																							1		1
stone, sand, substance																									
other materials					1		2			1														1	5
load					1		1	1	1	1									1		1				7
machine/equipment as load																									
natural ground, rock																									
standing tree																									

water																									
abnormal environment																									
high/cold temperature environment			1																						1
other environments																									
other causal agent											1		1								1				3
no causal agent							1		1			1									1	1			5
unclassifiable																									
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209

Workers age of fatal and non-fatal accidents in silk-reeling 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									1					2		1					6
20-29	4	3	4				2	2				4		2		2		1	1		1	1		1	28
30-39	5	1	5	1	6	1	1				1		1	1		1	2	2		1			2	1	32
40-49	4	8	3	5		2		2		1			1		1			1			1	1	2		32
50-59	15	11	5	5	4	5	5	3	1	2		2	3	3	1			2	1	2	1		3	1	75
60 years old or	2	9	2	4	1	2	2		1	1	2	1		2		1			1	1	1	1	1	1	36

more																									
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209

Workers' number of workplace of fatal and non-fatal accidents in silk-reeling 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	9	6	3	6	2	4		2	1	3	2	1		1			2		2	1	1		3	1	50
10-29	7	13	6	1	6	1	7		1	1		3	4	5	1	1		1		2	1	2	4	3	70
30-49	2	5	3	2				3					1			2		1	1						20
50-99	5	6	4	5	2	4	2	2				2			1							1			34
100-299	5	1	4	2	1	1	1					1	1	2		1		6		1	2				29
300 workers or more	2	1									1									1			1		6
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209

Month of fatal and non-fatal accidents in silk-reeling 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	5	2	2	1	1	1	3	1				2		1		1			1			1			22
February	6	3	4	1	3	1					1			1				2	1	1	1		1		26
March		3	2											1			1	1		1		1		1	11
April	2	7		1	1	1		1	1						1						2				17

May	1	1		3	1	2						2								1					11
June	5	2	1	3				2	1				1	1		1								1	18
July	2	2	3			2						2	1	3		1							1		17
August	1	1	4	1			1	1		1					1				1				1		13
September	3	3	1	2			1			1			1				1	3		1	1				18
October	2	3	2	2		2	1	2				1											1	1	17
November	1	2	1	1	2		2			2			1			1		2				1	1	1	18
December	2	3		1	3	1	2				2		2	1						1			3		21
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209

Prefecture of fatal and non-fatal accidents in silk-reeling 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																									
Aomori																									
Iwate																									
Miyagi	1																								1
Akita																									
Yamagata			1																						1
Fukushima	1	1	1					2																	5
Ibaraki					1																				1

Tochigi																									
Gunma																1									1
Saitama	1	2																							3
Chiba																		1					1		2
Tokyo							1													2					3
Kanagawa					1						1		2										1		5
Niigata	3	1						1		1															6
Toyama							1																		1
Ishikawa	3																		1		1				5
Fukui	1	1	1				1	1		1				1		3			2						12
Yamanashi																									
Nagano	1	2							1												1				5
Gifu	2	2	1		1							1								1			1		9
Shizuoka	1																								1
Aichi	2	4	3		2		2	1		1		4		1	2		1			1		2	1	3	30
Mie	2	2	1		1		1																		7
Shiga		2											1	2								1			6
Kyoto	3	5	3		1		1	1			2			1									2		19
Osaka					1				1				1	1									1		5
Hyogo	2	1	2									1						6			2				14

Nara	1		2										1							1					5
Wakayama																								1	1
Tottori																									
Shimane																									
Okayama	1	2			2		1						1	1											8
Hiroshima	1	1	3		1		1										1						1		9
Yamaguchi	1	1	1																						3
Tokushima																									
Kagawa																									
Ehime																									
Kochi		3																							3
Fukuoka	1	1								1				1											4
Saga																									
Nagasaki		1					1																		2
Kumamoto																									
Oita																									
Miyazaki	2		1					1										1							5
Kagoshima												1													1
Okinawa																									
total	30	32	20	16	11	10	10	7	2	4	3	7	6	8	2	4	2	8	3	5	4	3	8	4	209

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)

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html

==========

Fatal accidents in silk-reeling in Japan in 1999-2022

silk-reeling industry Code No.010201

Type of fatal accidents in silk-reeling 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																									
falling to same level																									
crash																									
struck by flying or falling object																									
collapse																									
crashed by																									

caught in/between													1												1
cut																									
injury to the sole of the foot																									
drown																									
contact to high/low-temperature																									
contact to harmful substance																									
electric shock																									
explosion																									
burst																									
fire																									
traffic accident (public road)																									
traffic accident (others)																									
reaction to motion/improper motion																									
others																									

unclassifiable																									
total													1												1

Causal agents (large) of fatal accidents in silk-reeling 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													1												1
crane, conveying machine																									
other equipment																									
temporary buildings, establishments																									
substance, material																									
load																									
environment																									
others																									
total													1												1

Causal agents (middle) of fatal accidents in silk-reeling 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																									
woodworking machine																									
construction machine																									
metal manufacturing machine																									
general machine													1												1
mobile silviculture machine																									
crane																									
conveying machine																									
vehicle																									
pressure vessel																									
chemical facilities																									
welding																									

equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools																									
other equipments, facilities																									
temporary buildings, establishments																									
hazards, harmful substances																									
materials																									
load																									
natural environment																									
other causal agent																									
no causal agent																									
unclassifiable																									
total													1												1

Causal agents (small) of fatal accidents in silk-reeling 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																									
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																									
roll machine (except printingroll machine)																									
injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines													1												1
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile																									

silviculture machine																									
crane																									
mobile crane																									
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck																									
forklift																									
railway equipment																									
conveyor																									
loader																									
straddle carrier																									

rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle																									
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																									
slinging tool																									
other tools																									
other equipment, facilities																									
scaffolding																									
timbering																									
stairs, landing stage																									
opening																									
roof, beam, haze,																									

crossbeam, principal rafter																									
working platform, boot board																									
passage																									
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																									
load																									
machine/equipment as load																									
natural ground, rock																									
standing tree																									
water																									
abnormal environment																									
high/cold temperature environment																									
other environments																									
other causal agent																									
no causal agent																									
unclassifiable																									
total													1												1

Workers age of fatal accidents in silk-reeling 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																									
30-39																									
40-49																									
50-59																									
60 years old or more																									
total													1												1

Workers' number of workplace of fatal accidents in silk-reeling 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																									
10-29																									
30-49													1												1
50-99																									
100-299																									
300 workers or more																									
total													1												1

Month of fatal accidents in silk-reeling 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																									
February																									
March																									
April																									
May																									
June																									
July																									
August																									
September																									
October																									
November																									
December													1												1
total													1												1

Prefecture of fatal accidents in silk-reeling 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																									

Aomori																									
Iwate																									
Miyagi																									
Akita																									
Yamagata																									
Fukushima																									
Ibaraki																									
Tochigi																									
Gunma																									
Saitama																									
Chiba																									
Tokyo																									
Kanagawa																									
Niigata																									
Toyama																									
Ishikawa																									
Fukui																									
Yamanashi																									
Nagano																									
Gifu																									
Shizuoka																									

Aichi																									
Mie																									
Shiga													1												1
Kyoto																									
Osaka																									
Hyogo																									
Nara																									
Wakayama																									
Tottori																									
Shimane																									
Okayama																									
Hiroshima																									
Yamaguchi																									
Tokushima																									
Kagawa																									
Ehime																									
Kochi																									
Fukuoka																									
Saga																									
Nagasaki																									

Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima																									
Okinawa																									
total													1												1

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

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html