

Fatal and non-fatal accidents in fiber products in Japan in 1999-2021

fiber products industry Code No.0103

Type of accidents in fiber 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	51	65	55	41	56	40	46	51	41	29	39	39	31	39	32	31	26	23	30	33	42	22	33	895	fall from height
falling to same level	140	113	113	91	94	85	86	77	88	94	81	71	73	90	93	71	71	65	67	72	70	64	69	1,938	falling to same level
crash	25	19	21	9	12	15	19	16	8	20	16	10	9	11	5	6	8	8	10	6	11	9	10	283	crash
struck by flying or falling object	13	10	22	9	10	12	9	10	8	5	7	9	8	12	9	9	9	11	5	8	8	6	5	214	struck by flying or falling object
collapse	6	1	1	7	3	3	7	3	1	2	2	2	2	4	2	1	2	2	1	1			5	58	collapse
crashed by	15	16	8	12	3	6	7	3	11	5	4	4	4	3	4	5	4	4	3	3	4	5	2	135	crashed by
caught in/between	150	129	102	100	97	93	61	81	91	50	52	59	62	62	44	51	47	49	48	41	41	43	42	1,595	caught in/between
cut	92	80	70	64	45	38	48	39	31	36	35	24	19	21	27	25	21	17	27	18	19	18	18	832	cut
injury to the sole of the foot		1	1	1		1	1					2						1	1			1	2	12	injury to the sole of the foot
drown													3											3	drown
contact to high/low-temperature	10	13	11	7	10	9	6	5	8	8	5	9	5	7	8	2	5	5	3	3	3	1	7	150	contact to high/low-temperature

contact to harmful substance	2	1	2	1	2		1	4	1				1	1			1				1	1	3	22	contact to harmful substance
electric shock				2		3		2						1	2		1					1		12	electric shock
explosion								1													1			2	explosion
burst					1	1																		2	burst
fire												2				1								3	fire
traffic accident (public road)	16	20	12	13	10	6	7	9	12	4	2	2	2	5	1	2	3	3		6	1	1	3	140	traffic accident (public road)
traffic accident (others)							1																	1	traffic accident (others)
reaction to motion/improper motion	48	55	34	24	32	17	24	25	27	20	19	23	7	27	16	26	20	16	17	21	22	17	13	550	reaction to motion/improper motion
others	3	3	3		1	1	2		3		1			1	1	2	2					83	25	131	others
unclassifiable		1					3			2														6	unclassifiable
total	571	527	455	381	376	330	328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	6,984	total

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

[illegible]

tools	30	39	33	20	29	29	33	30	31	21	23	23	19	27	27	20	12	11	25	14	23	11	19	549	tools
other equipments, facilities	9	7	13	14	7	12	13	6	11	7	6	13	9	5	7	13	7	9	8	4	8	5	7	200	other equipments, facilities
temporary buildings, establishments	137	114	108	79	106	86	82	76	81	88	75	71	77	86	64	69	69	58	65	67	79	57	72	1,866	temporary buildings, establishments
hazards, harmful substances	3	2	3	1	4		1	4	1	1		2	1	1	2	1	1						3	31	hazards, harmful substances
materials	20	26	21	17	9	9	11	18	8	9	4	14	9	16	8	10	3	10	6	8	10	8	5	259	materials
load	40	42	25	23	31	12	21	19	14	13	21	11	6	10	12	8	18	11	12	13	10	16	5	393	load
natural environment	9	7	15	5	5	5	7	6	7	11	2	2	7	6	15	6	4	2	2	5	1	3	6	138	natural environment
other causal agent	9	12	7	5	1	5	11	2	3	1	3	1		5	5	3	2	3	1	5	2	84	25	195	other causal agent
no causal agent	19	15	7	6	12	7	7	6	12	14	12	10	4	14	12	11	7	6	9	9	6	9	5	219	no causal agent
unclassifiable	4	1	2		2		1		2	1														13	unclassifiable
total	571	527	455	381	376	330	328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	6,984	total

Causal agents (small) of fatal and non-fatal accidents in fiber products in 1999-2021

[illegible]

engine																				1			1	engine	
power transmission mechanism			6		1		5	3	3	3	1	3	4	5	2	4	1	1	4	3			2	51	power transmission mechanism
circular sawing machine			2				1	3							1									7	circular sawing machine
band sawing machine					1										1									2	band sawing machine
wood planer machine								1																1	wood planer machine
hollow chisel mortiser, wood borer																									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			1	1					5	other woodworking machines
leveling, transporting or loading machine																									leveling, transporting or loading machine
excavating machine																									excavating machine
foundation work machine																									foundation work machine

[illegible]

machine			1				2	1			1		1	1										7	machine	
food manufacturing machine													1											1	food manufacturing machine	
printing machine									1			1		2	1			1							6	printing machine
industrial robot			1																						1	industrial robot
other general power machines			129		114		87	96	91	64	71	70	56	62	52	62	59	46	48	49	51	51	52	1,310	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			3						1					2				3	1						10	crane
mobile crane					1			1																	2	mobile crane
derrick crane																										derrick crane
elevator, lift			4		2		4	3	3		2		2				1				1		2	24	elevator, lift	
cargo lifting appliance																										cargo lifting appliance
gondola																										gondola
lumberyard equipment, logging cableway																										lumberyard equipment, logging cableway

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facilities			13		7		13	6	11	7	6	13	9	5	7	13	7	9	8	4	8	5	7	158	facilities
scaffolding					2							2		1		1			1			1		8	scaffolding
timbering							1							1										2	timbering
stairs, landing stage			18		24		16	19	18	19	20	19	14	18	10	11	11	6	11	11	20	8	10	283	stairs, landing stage
opening			2		1		2	1			2	2	2	1	1	1			1	2	1	1	1	21	opening
roof, beam, haze, crossbeam, principal rafter			2		1		1			1	1	1			1					2	3	1	1	15	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			17		20		5	6	8	11	8	7	8	10	8	10	13	10	2	6	12	4	7	172	working platform, boot board
passage			51		43		44	38	45	47	36	34	41	42	32	36	34	32	37	36	35	37	43	743	passage
building, establishment			9		9		9	7	3	5	4	4	8	6	6	6	5	7	6	5	4	3	4	110	building, establishment
other temporary buildings, establishments			9		6		4	5	7	5	4	2	4	7	6	4	6	3	7	5	4	2	6	96	other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance			1		2											1								4	inflammable substance
inflammable gas																									inflammable gas
harmful substance			2		1			4						1									1	9	harmful substance
radiation																									radiation
other hazards, harmful substances					1		1		1	1		2	1		2		1						2	12	other hazards, harmful substances

metal material			8		4		3	5	3	3		4	2	5	1	4		4	2	1	2	2	1	54	metal material
lumber, bamboo			1				4	1					1	1			1					2		11	lumber, bamboo
stone, sand, substance											1													1	stone, sand, substance
other materials			12		5		4	12	5	6	3	10	6	10	7	6	2	6	4	7	8	4	4	121	other materials
load			23		30		19	18	14	12	20	9	6	9	11	8	17	10	12	13	10	16	5	262	load
machine/equipment as load			2		1		2	1		1	1	2		1	1		1	1						14	machine/equipment as load
natural ground, rock			1						1	1							2							5	natural ground, rock
standing tree								1															1	2	standing tree
water			1		1				1	1			3											7	water
abnormal environment													1											1	abnormal environment
high/cold temperature environment			1				1		1					2	1				1		1		1	9	high/cold temperature environment
other environments			12		4		6	5	4	9	2	2	3	4	14	6	2	2	1	5		3	4	88	other environments
other causal agent			7		1		11	2	3	1	3	1		5	5	3	2	3	1	5	2	84	25	164	other causal agent
no causal agent			7		12		7	6	12	14	12	10	4	14	12	11	7	6	9	9	6	9	5	172	no causal agent
unclassifiable			2		2		1		2	1														8	unclassifiable
total			455		376		328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	5,175	total

Workers age of fatal and non-fatal accidents in fiber 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	16	6	7	8	6	4	2	1	5	4	1	4	1	7	4	3	5	3	1	4	4	7	1	104	19 years old or less
20-29	72	60	48	42	53	34	31	34	38	22	18	29	27	29	21	26	19	22	19	18	16	38	22	738	20-29
30-39	71	63	73	54	56	53	46	51	50	37	42	38	31	30	32	35	27	23	26	18	32	51	35	974	30-39
40-49	138	123	96	89	77	68	59	60	62	53	36	53	37	53	45	43	46	40	35	38	39	41	41	1,372	40-49
50-59	206	192	153	135	124	117	129	133	119	99	101	70	64	86	72	50	66	52	58	55	55	60	56	2,252	50-59
60 years old or more	68	83	78	53	60	54	61	47	56	60	65	62	66	79	70	75	56	65	73	79	77	75	82	1,544	60 years old or more
total	571	527	455	381	376	330	328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	6,984	total

Workers' number of workplace of fatal and non-fatal accidents in fiber 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	93	110	102	82	77	77	69	86	67	48	56	70	50	43	39	42	42	38	29	40	28	40	30	1,358	9 workers or less
10-29	162	146	118	109	110	89	108	98	106	87	70	72	64	90	68	80	65	64	72	54	69	58	72	2,031	10-29
30-49	108	99	97	74	60	61	47	36	59	52	42	39	35	50	48	35	39	28	40	48	39	39	53	1,228	30-49
50-99	100	88	59	51	60	60	57	58	39	43	52	43	41	50	44	45	41	38	45	34	46	26	44	1,164	50-99
100-299	93	74	64	57	60	37	42	38	51	36	32	30	31	38	33	26	28	32	21	31	29	97	29	1,009	100-299
300 workers or more	15	10	15	8	9	6	5	10	8	9	11	2	5	13	12	4	4	5	5	5	12	12	9	194	300 workers or more
total	571	527	455	381	376	330	328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	6,984	total

Month of fatal and non-fatal accidents in fiber 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	40	47	45	46	31	44	30	25	21	30	18	22	29	20	27	19	23	22	25	30	24	13	21	652	January
February	51	55	27	23	33	33	40	26	17	27	18	20	18	25	25	32	17	21	18	27	18	18	19	608	February
March	55	55	41	43	30	23	29	28	36	19	25	26	25	27	19	23	24	18	21	12	20	22	20	641	March
April	64	39	38	32	40	29	21	26	20	22	21	31	15	20	26	16	17	15	15	12	15	18	18	570	April
May	50	51	33	30	28	28	25	23	24	20	20	21	10	13	15	21	14	15	14	19	12	12	26	524	May
June	40	41	31	22	36	29	32	27	29	24	24	17	14	29	17	25	16	17	20	16	19	16	11	552	June
July	48	52	39	30	31	30	23	23	30	23	35	21	19	25	15	13	18	14	21	10	24	16	15	575	July
August	41	44	33	36	33	24	30	25	35	20	20	17	18	21	16	12	14	12	16	17	20	16	36	556	August
September	56	35	45	35	27	28	20	34	19	23	25	24	18	20	13	21	18	21	11	12	26	10	22	563	September
October	40	48	41	32	27	25	25	25	34	25	19	24	18	32	26	21	21	21	15	22	12	17	17	587	October
November	48	26	49	27	34	16	23	35	30	21	18	17	20	21	18	14	19	16	14	19	16	18	12	531	November
December	38	34	33	25	26	21	30	29	35	21	20	16	22	31	27	15	18	13	22	16	17	96	20	625	December
total	571	527	455	381	376	330	328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	6,984	total

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

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	9	14	16		7		6	10	8	3	7	5	9	4	4	6	5	2	8	1	3	5	4	136	Hokkaido
Aomori	10	9	4		4		5	4	7	5	5	5	3	9	10	3	3	4	3	7	7	5	7	119	Aomori
Iwate	4	10	7		8		5	4	12	8	6	5	7	12	6	8	6	11	6	7	4	3	8	147	Iwate

Miyagi	16	8	11		3		5	12	4	5	4	2	6	4	5	3	4	4		3	2	2	7	110	Miyagi
Akita	16	16	16		14		8	7	20	8	11	9	9	13	8	11	5	3	5	15	15	6	7	222	Akita
Yamagata	17	9	9		7		9	7	8	9	5	4	4	6	10	8	8	4	5	9	4	8	3	153	Yamagata
Fukushima	25	15	13		16		13	15	11	15	8	8	11	14	9	7	7	7	6	7	10	5	5	227	Fukushima
Ibaraki	17	17	9		9		3	4	3	4	3	2	1	4	2	5	6	2	3	1	4		1	100	Ibaraki
Tochigi	8	9	7		8		3	5	4	3	3	4	7	5	3	2	1	3	5	4	2	3	7	96	Tochigi
Gunma	10	9	18		11		3	15	5	7	4	4	5	7	5	3	6	6		5	11	3	8	145	Gunma
Saitama	16	15	11		18		8	8	12	10	14	11	5	13	8	12	6	8	5	8	11	9	5	213	Saitama
Chiba	13	11	5		10		4	3	4	4	5	6	2	9	9	6	6	3	3	5	2	9	2	121	Chiba
Tokyo	6	9	10		11		5	15	6	7	5	6	5	6	2	5	3		2		2	2	4	111	Tokyo
Kanagawa	6	5	3		5		3	5	2	3	2	5	2	1	4	4	1		4	3	1	2	1	62	Kanagawa
Niigata	9	11	9		13		4	7	7	6	9	10	4	12	4	6	5	6	7	5	3	4	11	152	Niigata
Toyama	9	4	3		7		6	2	6	1	3	4	5	1	4	4	2	5	2			1	4	73	Toyama
Ishikawa	4	10	8		7		6	7	8	6	5	4	6	2	6	7	3	1	4	2	2	4	1	103	Ishikawa
Fukui	17	6	11		5		6	6	6	3	10	3	3	8	8	4	3	4	1	4	5	7	6	126	Fukui
Yamanashi		3	4		1		1	2	1				1			2	2	2			2		1	22	Yamanashi
Nagano	5	2	3		4		2	2	1	3	3		3	3	6	1	3	1	1	3	2	2	1	51	Nagano
Gifu	9	15	22		11		10	9	10	3	13	9	4	8	7	7	1	15	4	9	4	6	8	184	Gifu
Shizuoka	17	18	7		4		4	4	5	3	5	2		3	3	3	4	2	3	1	6	3	4	101	Shizuoka
Aichi	26	34	27		18		21	19	18	15	28	8	8	5	8	16	11	7	15	10	9	9	11	323	Aichi
Mie	12	13	9		7		11	1	5	5	2	5	4	8	2		1	1	3	2	2	3	5	101	Mie
Shiga	9	14	5				7	7	11	10	5	4	3	6	12	8	7	5	2	2	3	5	2	127	Shiga
Kyoto	6	4	8		4		4	7	5	3	4	7	2	2	4	6	2	4	4	6	6	1	1	90	Kyoto

Osaka	33	48	32		18		21	26	37	22	11	18	21	22	17	18	21	20	17	13	16	10	9	450	Osaka
Hyogo	20	10	21		12		16	10	9	6	5	8	7	9	2	5	5	8	5	5	5	9	8	185	Hyogo
Nara	17	11	16		12		13	6	14	9	6	8	8	5	2	1	9	7	12	7	7	1	6	177	Nara
Wakayama	13	3	8		4		6	6	9	7	1	3	6	4	5	1	6	4	3	3	2	4	8	106	Wakayama
Tottori	3	6	6		2			1	3	1	4	2	2	3	1		1	1	5	1	3	3		48	Tottori
Shimane	10	6	6		6		12	1	3	3	4	7		1	2	2	4		1	1	3	1	1	74	Shimane
Okayama	28	24	18		15		13	9	13	11	10	12	10	12	14	11	9	8	11	14	11	95	28	376	Okayama
Hiroshima	22	28	23		14		21	12	16	16	6	14	6	7	8	5	8	7	9	7	14	6	17	266	Hiroshima
Yamaguchi	1	10	3				4	6	1	2	2		1	3	1	1	1		1	1	3	1	3	45	Yamaguchi
Tokushima	10	5	5		3		4	3	2	2	3			4	2		4	4	2	1			1	55	Tokushima
Kagawa	14	8	12		6		7	6	7	3	5	5	4	6	4	6	2	3	4	1	6	5	1	115	Kagawa
Ehime	9	9	7		15		6	4	4	5		2	5	5	5	2	6	3	6	4	5	6	5	113	Ehime
Kochi	9	2	4		5		4	4		3		3		1		3	3		2	1	2			46	Kochi
Fukuoka	24	8	10		17		14	15	9	11	12	13	8	10	12	10	13	10	7	9	5	7	5	229	Fukuoka
Saga	9	5	4		9		6	5	4	2	2	5	7	11	2		4		6	3	2	1		87	Saga
Nagasaki	12	10	9		5		4	6	2	11	2	7	4	3	2	4	4	2	4	5	3	5	6	110	Nagasaki
Kumamoto	18	14	6		3		2	9	2	3	4	4	2	6	4	5	1	4	4	6	4	4	5	110	Kumamoto
Oita	4	5	4		3		3	3	1	2		1	5	1		2	1	2	3	2	1			43	Oita
Miyazaki	15	16	2		10		6	6	5	5	12	10	7	4	10	6	3	10	6	7	8	3	7	158	Miyazaki
Kagoshima	4	8	2		4		4	1		2	5	2	3	2	2	3	3	2	2	1	1	4	2	57	Kagoshima
Okinawa		1	2		1								1						1	1			1	8	Okinawa
total	571	527	455		376		328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	6,273	total

[illegible]

injury to the sole of the foot																									injury to the sole of the foot
drown												3											3		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)	2						1																3		traffic accident (public road)
traffic accident (others)																									traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others		1																					1		others
unclassifiable																									unclassifiable
total	3	2	1		1	2	2			1		1	3	1			1				1			19	total

Causal agents (large) of fatal accidents in fiber 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) agents
machine		1			1					1				1										4	machine
crane, conveying machine	2		1			1	1										1							6	crane, conveying machine
other equipment							1					1												2	other equipment
temporary buildings, establishments						1															1			2	temporary buildings, establishments
substance, material	1																							1	substance, material
load																									load
environment		1											3											4	environment
others																									others
total	3	2	1		1	2	2			1		1	3	1			1				1			19	total

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

[illegible]

[illegible]

[illegible]

total	3	2	1		1	2	2			1		1	3	1			1			1			19	total
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Causal agents (small) of fatal accidents in fiber products in 1999-2021

[illegible]

[illegible]

centrifugal machine																										centrifugal machine
mixer, grinder																										mixer, grinder
roll machine (except printingroll machine)		1								1														2		roll machine (except printingroll machine)
injection molding machine													1											1		injection molding machine
food manufacturing machine																										food manufacturing machine
printing machine																										printing machine
industrial robot																										industrial robot
other general power machines					1																			1		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

[illegible]

[illegible]

hand tool																									hand tool
ladder						1																		1	ladder
slinging tool																									slinging tool
other tools																									other tools
other equipment, facilities											1													1	other equipment, facilities
scaffolding																									scaffolding
timbering																									timbering
stairs, landing stage																									stairs, landing stage
opening																									opening
roof, beam, haze, crossbeam, principal rafter						1																		1	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

[illegible]

no causal agent																										no causal agent
unclassifiable																										unclassifiable
total	3	2	1		1	2	2			1		1	3	1			1				1				19	total

Workers age of fatal accidents in fiber 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																									19 years old or less
20-29	1									1														2	20-29
30-39	1					2																		3	30-39
40-49			1														1							2	40-49
50-59	1	1					2														1			5	50-59
60 years old or more		1			1							1	3	1										7	60 years old or more
total	3	2	1		1	2	2			1		1	3	1			1				1			19	total

Workers' number of workplace of fatal accidents in fiber products in 1999-2021

[illegible]

100-299	1																							1	100-299
300 workers or more																									300 workers or more
total	3	2	1		1	2	2			1		1	3	1			1				1			19	total

Month of fatal accidents in fiber 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																									January
February		1			1					1				1			1				1			6	February
March			1									1	3											5	March
April	1						1																	2	April
May																									May
June																									June
July		1					1																	2	July
August						1																		1	August
September	2																							2	September
October						1																		1	October
November																									November
December																									December
total	3	2	1		1	2	2			1		1	3	1			1				1			19	total

Prefecture of fatal accidents in fiber products in 1999-2021

[illegible]

[illegible]

Miyazaki																										Miyazaki
Kagoshima																										Kagoshima
Okinawa																										Okinawa
total	3	2	1		1	2	2			1		1	3	1			1				1			19	total	

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