Fatal and non-fatal accidents in fiber products in Japan in 1999-2022

fiber products industry Code No.0103

Type of accidents in fiber products 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	51	65	55	41	56	40	46	51	41	29	39	39	31	39	32	31	26	23	30	33	42	22	33	33	928
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	77	2,015
crash	25	19	21	9	12	15	19	16	8	20	16	10	9	11	5	6	8	8	10	6	11	9	10	14	297
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	9	223
collapse	6	1	1	7	3	3	7	3	1	2	2	2	2	4	2	1	2	2	1	1			5	3	61
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	6	141
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	52	1,647
cut	92	80	70	64	45	38	48	39	31	36	35	24	19	21	27	25	21	17	27	18	19	18	18	20	852
injury to the sole of the foot		1	1	1		1	1					2						1	1			1	2	1	13
drown													3												3
contact to high/low-	10	13	11	7	10	9	6	5	8	8	5	9	5	7	8	2	5	5	3	3	3	1	7	1	151

temperature																									
contact to harmful substance	2	1	2	1	2		1	4	1				1	1			1				1	1	3		22
electric shock				2		3		2						1	2			1				1			12
explosion								1													1				2
burst					1	1																			2
fire												2				1									3
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	6	146
traffic accident (others)							1																		1
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	24	574
others	3	3	3		1	1	2		3		1			1	1	2	2					83	25		131
unclassifiable		1					3			2															6
total	571	527	455	381	376	330	328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	246	7,230

Causal agents (large) of fatal and non-fatal accidents in fiber products 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	206	195	155	147	130	123	106	112	110	76	76	82	71	78	67	71	66	55	62	57	57	57	63	61	2,283

crane, conveying machine	45	36	36	41	26	22	24	30	30	17	18	13	13	23	12	6	18	16	11	17	12	12	14	16	508
other equipment	79	77	76	57	50	61	57	53	62	44	52	50	38	45	47	47	31	44	44	31	46	26	39	49	1,205
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	78	1,944
substance, material	23	28	24	18	13	9	12	22	9	10	4	16	10	17	10	11	4	10	6	8	10	8	8	7	297
load	40	42	25	23	31	12	21	19	14	13	21	11	6	10	12	8	18	11	12	13	10	16	5	14	407
environment	9	7	15	5	5	5	7	6	7	11	2	2	7	6	15	6	4	2	2	5	1	3	6	6	144
others	32	28	16	11	15	12	19	8	17	16	15	11	4	19	17	14	9	9	10	14	8	93	30	15	442
total	571	527	455	381	376	330	328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	246	7,230

Causal agents (middle) of fatal and non-fatal accidents in fiber products 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																					1				1
power transmission mechanism	8	5	6	4	1	6	5	3	3	3	1	3	4	5	2	4	1	1	4	3			2	1	75
woodworking machine	1	2	3	2	1	2	2	4							3			1	2						23

construction machine		1																							1
metal manufacturing machine	21	8	5	9	7	7	3	5	6	2	1	5	5	3	3		3	5	3	3	2	3	4	3	116
general machine	176	179	141	132	121	108	96	100	101	71	74	74	62	70	59	67	62	48	53	51	54	54	57	57	2,067
mobile silviculture machine																									
crane	6	5	7	3	4	3	4	5	4		2		2	2			1	3	1		1		2	1	56
conveying machine	22	9	15	20	15	14	10	16	13	10	13	9	7	13	10	5	13	11	9	9	10	9	9	7	278
vehicle	17	22	14	18	7	5	10	9	13	7	3	4	4	8	2	1	4	2	1	8	1	3	3	8	174
pressure vessel	3	1	1			2		4	3		2		1							1	1			1	20
chemical facilities		1																							1
welding equipment													1						1					1	3
kiln, caldron	1	1	1			1		1	1		1									1	1		1		10
electric equipment	4	1	3	4	1	1	2	2	1	2	2	1	1	1		1	3			1	1	1			33
human power machine, tools	32	27	25	19	13	16	9	10	15	14	18	13	7	12	13	13	9	24	10	10	12	9	12	16	358
tools	30	39	33	20	29	29	33	30	31	21	23	23	19	27	27	20	12	11	25	14	23	11	19	25	574
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	6	206
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	78	1,944
hazards, harmful substances	3	2	3	1	4		1	4	1	1		2	1	1	2	1	1						3		31
materials	20	26	21	17	9	9	11	18	8	9	4	14	9	16	8	10	3	10	6	8	10	8	5	7	266
load	40	42	25	23	31	12	21	19	14	13	21	11	6	10	12	8	18	11	12	13	10	16	5	14	407
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	6	144
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	4	199
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	11	230
unclassifiable	4	1	2		2		1		2	1															13
total	571	527	455	381	376	330	328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	246	7,230

Causal agents (small) of fatal and non-fatal accidents in fiber products 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																					1				1
power transmission mechanism			6		1		5	3	3	3	1	3	4	5	2	4	1	1	4	3			2	1	52

circular sawing machine			2				1	3							1										7
band sawing machine					1										1										2
wood planer machine								1																	1
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																			1						1
other woodworking machines			1				1								1			1	1						5
leveling, transporting or loading machine																									
excavating machine																									
foundation work machine																									
hardening machine																									

demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe								1												1	1	1			4
drill press, milling machine							1		1									1				1		1	5
grinding machine, buffing machine					1		1	1	1				2	1									2		9
power press			1		2		1	1	2				2	1	1				1	2			2	1	17
forging pressure hammer																									
shearing machine			3		2			2	2	1		2		1			2	1						1	17
other metal manufacturing machines			1		2					1	1	3	1		2		1	3	2		1	1			19
centrifugal machine			1								1														2
mixer, grinder					1				1	3				1		2									8
roll machine (except printingroll machine)			9		6		7	3	8	4	1	3	4	4	6	3	2	2	5	2	3	3	5	4	84

injection molding machine			1				2	1			1		1	1											7
food manufacturing machine													1												1
printing machine									1			1		2	1		1								6
industrial robot			1																						1
other general power machines			129		114		87	96	91	64	71	70	56	62	52	62	59	46	48	49	51	51	52	53	1,363
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane			3						1					2				3	1						10
mobile crane					1			1																	2
derrick crane																									
elevator, lift			4		2		4	3	3		2		2				1				1		2	1	25
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane					1			1																	2
truck			8		6		8	9	5	5	5	4	3	7	4	3	7	5	4	7	7	7	7	2	113
forklift			4		4		2	3	3	4	4	2	3	2			4	3	1	2	2			2	45
railway equipment																									
conveyor			3		3			4	5	1	4	2	1	2	6	2	2	2	4		1	2	2	1	47
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines					2							1		2				1						2	8
cars, bus, motorcycle			14		7		10	9	12	7	3	3	4	8	2	1	4	2	1	6	1	2	3	7	106
railway vehicle																									
other vehicles									1			1								2		1		1	6
boiler								2	3		1									1					7

pressure vessel			1					1			1		1								1				5
other pressure vessels								1																1	2
chemical facilities																									
gas welding equipment																									
arc welding equipment																									
other welding equipment													1						1					1	3
kiln, caldron			1					1			1												1		4
industrial dryer									1												1				2
other kiln, caldron																				1					1
transmission			1					1			2						2								6
electric power facilities								1						1			1								3
other electrical equipment			2		1		2		1	2		1	1			1				1	1	1			14
human power cranes										1	1							1			1		1	3	8
human power hauling equipment			7		8		5	4	5	3	6	7	2	8	7	7	7	15	2	7	6	6	7	5	124

human power machine			2						2	1	2	1	2			1		1	1						13
hand tool			16		5		4	6	8	9	9	5	3	4	6	5	2	7	7	3	5	3	4	8	119
ladder			14		15		15	16	12	11	13	16	10	12	8	9	5	3	14	11	13	6	10	10	223
slinging tool			2												1						1	1			5
other tools			17		14		18	14	19	10	10	7	9	15	18	11	7	8	11	3	9	4	9	15	228
other equipment, facilities			13		7		13	6	11	7	6	13	9	5	7	13	7	9	8	4	8	5	7	6	164
scaffolding					2							2		1		1			1			1			8
timbering							1							1											2
stairs, landing stage			18		24		16	19	18	19	20	19	14	18	10	11	11	6	11	11	20	8	10	13	296
opening			2		1		2	1			2	2	2	1	1	1			1	2	1	1	1	3	24
roof, beam, haze, crossbeam, principal rafter			2		1		1			1	1	1			1					2	3	1	1		15
working platform, boot board			17		20		5	6	8	11	8	7	8	10	8	10	13	10	2	6	12	4	7	4	176
passage			51		43		44	38	45	47	36	34	41	42	32	36	34	32	37	36	35	37	43	44	787
building, establishment			9		9		9	7	3	5	4	4	8	6	6	6	5	7	6	5	4	3	4	8	118
other temporary buildings,			9		6		4	5	7	5	4	2	4	7	6	4	6	3	7	5	4	2	6	6	102

establishments																									
explosive substance																									
inflammable substance			1		2											1									4
inflammable gas																									
harmful substance			2		1			4						1									1		9
radiation																									
other hazards, harmful substances					1		1		1	1		2	1		2		1						2		12
metal material			8		4		3	5	3	3		4	2	5	1	4		4	2	1	2	2	1	2	56
lumber, bamboo			1				4	1					1	1			1					2			11
stone, sand, substance											1														1
other materials			12		5		4	12	5	6	3	10	6	10	7	6	2	6	4	7	8	4	4	5	126
load			23		30		19	18	14	12	20	9	6	9	11	8	17	10	12	13	10	16	5	14	276
machine/equipment as load			2		1		2	1		1	1	2		1	1		1	1							14
natural ground, rock			1						1	1							2								5
standing tree								1															1		2
water			1		1				1	1			3												7
abnormal																									

environment													1												1
high/cold temperature environment			1				1		1					2	1				1		1		1	1	10
other environments			12		4		6	5	4	9	2	2	3	4	14	6	2	2	1	5		3	4	5	93
other causal agent			7		1		11	2	3	1	3	1		5	5	3	2	3	1	5	2	84	25	4	168
no causal agent			7		12		7	6	12	14	12	10	4	14	12	11	7	6	9	9	6	9	5	11	183
unclassifiable			2		2		1		2	1															8
total	571	527	455	381	376	330	328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	246	7,230

Workers age of fatal and non-fatal accidents in fiber products 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	16	6	7	8	6	4	2	1	5	4	1	4	1	7	4	3	5	3	1	4	4	7	1	1	105
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	18	756
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	23	997
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	41	1,413
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	72	2,324
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	91	1,635
total	571	527	455	381	376	330	328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	246	7,230

Workers' number of workplace of fatal and non-fatal accidents in fiber products 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	93	110	102	82	77	77	69	86	67	48	56	70	50	43	39	42	42	38	29	40	28	40	30	40	1,398
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	73	2,104
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	48	1,276
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	46	1,210
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	28	1,037
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	11	205
total	571	527	455	381	376	330	328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	246	7,230

Month of fatal and non-fatal accidents in fiber products 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	40	47	45	46	31	44	30	25	21	30	18	22	29	20	27	19	23	22	25	30	24	13	21	27	679
February	51	55	27	23	33	33	40	26	17	27	18	20	18	25	25	32	17	21	18	27	18	18	19	28	636
March	55	55	41	43	30	23	29	28	36	19	25	26	25	27	19	23	24	18	21	12	20	22	20	17	658
April	64	39	38	32	40	29	21	26	20	22	21	31	15	20	26	16	17	15	15	12	15	18	18	24	594
May	50	51	33	30	28	28	25	23	24	20	20	21	10	13	15	21	14	15	14	19	12	12	26	14	538
June	40	41	31	22	36	29	32	27	29	24	24	17	14	29	17	25	16	17	20	16	19	16	11	23	575

July	48	52	39	30	31	30	23	23	30	23	35	21	19	25	15	13	18	14	21	10	24	16	15	27	602
August	41	44	33	36	33	24	30	25	35	20	20	17	18	21	16	12	14	12	16	17	20	16	36	15	571
September	56	35	45	35	27	28	20	34	19	23	25	24	18	20	13	21	18	21	11	12	26	10	22	11	574
October	40	48	41	32	27	25	25	25	34	25	19	24	18	32	26	21	21	21	15	22	12	17	17	16	603
November	48	26	49	27	34	16	23	35	30	21	18	17	20	21	18	14	19	16	14	19	16	18	12	22	553
December	38	34	33	25	26	21	30	29	35	21	20	16	22	31	27	15	18	13	22	16	17	96	20	22	647
total	571	527	455	381	376	330	328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	246	7,230

Prefecture of fatal and non-fatal accidents in fiber products 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	9	14	16		7		6	10	8	3	7	5	9	4	4	6	5	2	8	1	3	5	4	3	139
Aomori	10	9	4		4		5	4	7	5	5	5	3	9	10	3	3	4	3	7	7	5	7	6	125
Iwate	4	10	7		8		5	4	12	8	6	5	7	12	6	8	6	11	6	7	4	3	8	5	152
Miyagi	16	8	11		3		5	12	4	5	4	2	6	4	5	3	4	4		3	2	2	7	3	113
Akita	16	16	16		14		8	7	20	8	11	9	9	13	8	11	5	3	5	15	15	6	7	16	238
Yamagata	17	9	9		7		9	7	8	9	5	4	4	6	10	8	8	4	5	9	4	8	3	6	159
Fukushima	25	15	13		16		13	15	11	15	8	8	11	14	9	7	7	7	6	7	10	5	5	6	233
Ibaraki	17	17	9		9		3	4	3	4	3	2	1	4	2	5	6	2	3	1	4		1	5	105
Tochigi	8	9	7		8		3	5	4	3	3	4	7	5	3	2	1	3	5	4	2	3	7	3	99
Gunma	10	9	18		11		3	15	5	7	4	4	5	7	5	3	6	6		5	11	3	8	2	147

Saitama	16	15	11		18		8	8	12	10	14	11	5	13	8	12	6	8	5	8	11	9	5	6	219
Chiba	13	11	5		10		4	3	4	4	5	6	2	9	9	6	6	3	3	5	2	9	2	3	124
Tokyo	6	9	10		11		5	15	6	7	5	6	5	6	2	5	3		2		2	2	4	4	115
Kanagawa	6	5	3		5		3	5	2	3	2	5	2	1	4	4	1		4	3	1	2	1	2	64
Niigata	9	11	9		13		4	7	7	6	9	10	4	12	4	6	5	6	7	5	3	4	11	7	159
Toyama	9	4	3		7		6	2	6	1	3	4	5	1	4	4	2	5	2			1	4	5	78
Ishikawa	4	10	8		7		6	7	8	6	5	4	6	2	6	7	3	1	4	2	2	4	1	2	105
Fukui	17	6	11		5		6	6	6	3	10	3	3	8	8	4	3	4	1	4	5	7	6	5	131
Yamanashi		3	4		1		1	2	1				1			2	2	2			2		1	1	23
Nagano	5	2	3		4		2	2	1	3	3		3	3	6	1	3	1	1	3	2	2	1	3	54
Gifu	9	15	22		11		10	9	10	3	13	9	4	8	7	7	1	15	4	9	4	6	8	13	197
Shizuoka	17	18	7		4		4	4	5	3	5	2		3	3	3	4	2	3	1	6	3	4	3	104
Aichi	26	34	27		18		21	19	18	15	28	8	8	5	8	16	11	7	15	10	9	9	11	12	335
Mie	12	13	9		7		11	1	5	5	2	5	4	8	2		1	1	3	2	2	3	5	1	102
Shiga	9	14	5				7	7	11	10	5	4	3	6	12	8	7	5	2	2	3	5	2	5	132
Kyoto	6	4	8		4		4	7	5	3	4	7	2	2	4	6	2	4	4	6	6	1	1	6	96
Osaka	33	48	32		18		21	26	37	22	11	18	21	22	17	18	21	20	17	13	16	10	9	16	466
Hyogo	20	10	21		12		16	10	9	6	5	8	7	9	2	5	5	8	5	5	5	9	8	5	190
Nara	17	11	16		12		13	6	14	9	6	8	8	5	2	1	9	7	12	7	7	1	6	8	185
Wakayama	13	3	8		4		6	6	9	7	1	3	6	4	5	1	6	4	3	3	2	4	8	8	114
Tottori	3	6	6		2			1	3	1	4	2	2	3	1		1	1	5	1	3	3		2	50

Shimane	10	6	6		6		12	1	3	3	4	7		1	2	2	4		1	1	3	1	1	1	75
Okayama	28	24	18		15		13	9	13	11	10	12	10	12	14	11	9	8	11	14	11	95	28	14	390
Hiroshima	22	28	23		14		21	12	16	16	6	14	6	7	8	5	8	7	9	7	14	6	17	5	271
Yamaguchi	1	10	3				4	6	1	2	2		1	3	1	1	1		1	1	3	1	3	1	46
Tokushima	10	5	5		3		4	3	2	2	3			4	2		4	4	2	1			1		55
Kagawa	14	8	12		6		7	6	7	3	5	5	4	6	4	6	2	3	4	1	6	5	1	2	117
Ehime	9	9	7		15		6	4	4	5		2	5	5	5	2	6	3	6	4	5	6	5	5	118
Kochi	9	2	4		5		4	4		3		3		1		3	3		2	1	2				46
Fukuoka	24	8	10		17		14	15	9	11	12	13	8	10	12	10	13	10	7	9	5	7	5	13	242
Saga	9	5	4		9		6	5	4	2	2	5	7	11	2		4		6	3	2	1		3	90
Nagasaki	12	10	9		5		4	6	2	11	2	7	4	3	2	4	4	2	4	5	3	5	6	7	117
Kumamoto	18	14	6		3		2	9	2	3	4	4	2	6	4	5	1	4	4	6	4	4	5	7	117
Oita	4	5	4		3		3	3	1	2		1	5	1		2	1	2	3	2	1			3	46
Miyazaki	15	16	2		10		6	6	5	5	12	10	7	4	10	6	3	10	6	7	8	3	7	8	166
Kagoshima	4	8	2		4		4	1		2	5	2	3	2	2	3	3	2	2	1	1	4	2	4	61
Okinawa		1	2		1								1						1	1			1	1	9
total	571	527	455	381	376	330	328	326	330	275	263	256	226	284	244	232	219	205	212	212	223	272	237	246	7,230

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)

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Fatal accidents in fiber products in Japan in 1999-2022

fiber products industry Code No.0103

Type of fatal accidents in fiber products 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						1	1					1									1				4
falling to same level			1																						1
crash																									
struck by flying or falling object																	1								1
collapse																									
crashed by																									
caught in/between		1			1	1				1				1											5
cut																									
injury to the sole of the foot																									

drown													3												3
contact to high/low-temperature																									
contact to harmful substance	1																								1
electric shock																									
explosion																									
burst																									
fire																									
traffic accident (public road)	2						1																		3
traffic accident (others)																									
reaction to motion/improper motion																									
others		1																							1
unclassifiable																									
total	3	2	1		1	2	2			1		1	3	1			1				1				19

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

Causal agents (middle) of fatal accidents in fiber products 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					1				1											4
mobile silviculture machine																									
crane																	1								1
conveying machine	1		1			1																			3
vehicle	1						1																		2
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools							1																		1
other equipments,																									

facilities												1													1
temporary buildings, establishments						1															1				2
hazards, harmful substances	1																								1
materials																									
load																									
natural environment		1											3												4
other causal agent																									
no causal agent																									
unclassifiable																									
total	3	2	1		1	2	2			1		1	3	1			1				1				19

Causal agents (small) of fatal accidents in fiber products 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)		1								1															2

injection molding machine														1											1
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																	1								1
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck	1																								1
forklift			1																						1
railway equipment																									
conveyor						1																			1
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle	1						1																		2
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							1																		1
slinging tool																									
other tools																									
other equipment, facilities												1													1
scaffolding																									
timbering																									
stairs, landing stage																									
opening																									
roof, beam, haze, crossbeam, principal rafter						1																			1
working platform, boot board																									
passage																									
building, establishment																					1				1
other temporary buildings,																									

establishments																									
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance	1																								1
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													3												3
abnormal																									

environment																									
high/cold temperature environment																									
other environments		1																							1
other causal agent																									
no causal agent																									
unclassifiable																									
total	3	2	1		1	2	2			1		1	3	1			1				1				19

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

Workers' number of workplace of fatal accidents in fiber products 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							1			1		1													3
10-29	1	2	1			2	1							1			1				1				10
30-49													1												1
50-99	1				1								2												4
100-299	1																								1
300 workers or more																									
total	3	2	1		1	2	2			1		1	3	1			1				1				19

Month of fatal accidents in fiber products 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		1			1					1				1			1				1				6
March			1									1	3												5
April	1						1																		2
May																									
June																									

July		1					1																		2
August						1																			1
September	2																								2
October						1																			1
November																									
December																									
total	3	2	1		1	2	2			1		1	3	1			1				1				19

Prefecture of fatal accidents in fiber products 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													2												2
Akita																									
Yamagata	1																								1
Fukushima	1												1												2
Ibaraki																									
Tochigi					1																				1
Gunma		1																							1

Saitama	1					1																			2
Chiba			1																						1
Tokyo																									
Kanagawa																									
Niigata																									
Toyama							1																		1
Ishikawa												1													1
Fukui																									
Yamanashi																									
Nagano																									
Gifu						1															1				2
Shizuoka																									
Aichi										1															1
Mie																									
Shiga		1																							1
Kyoto																									
Osaka							1																		1
Hyogo																									
Nara																									
Wakayama																									
Tottori																									

Shimane																									
Okayama																									
Hiroshima																									
Yamaguchi																									
Tokushima																									
Kagawa																	1								1
Ehime																									
Kochi																									
Fukuoka																									
Saga																									
Nagasaki																									
Kumamoto														1											1
Oita																									
Miyazaki																									
Kagoshima																									
Okinawa																									
total	3	2	1		1	2	2			1		1	3	1			1				1				19

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

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