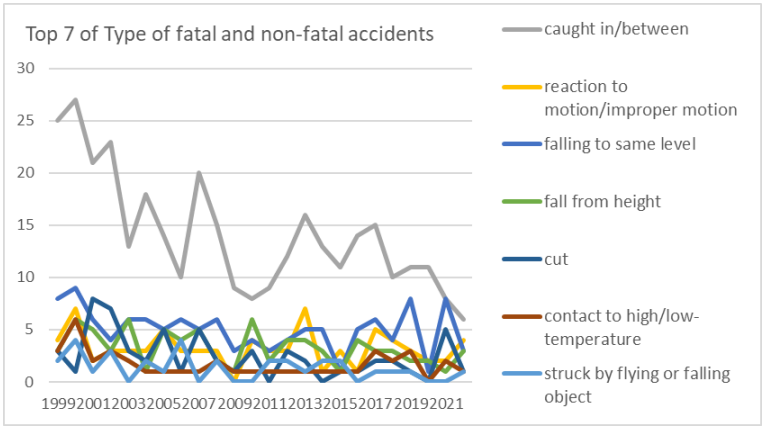
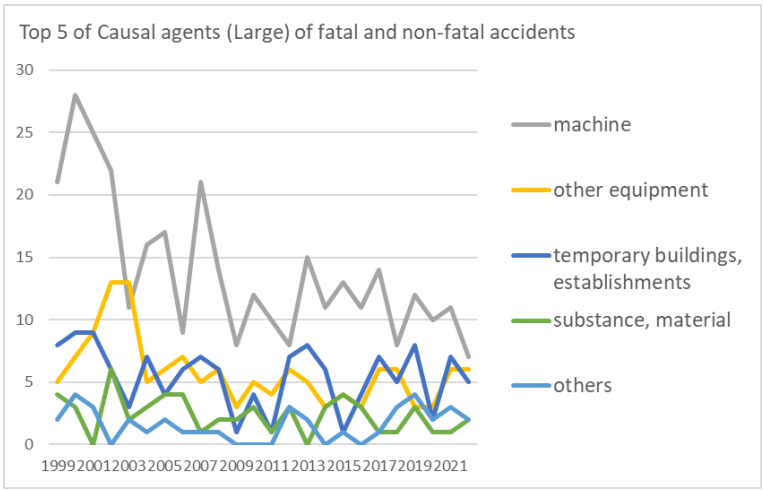
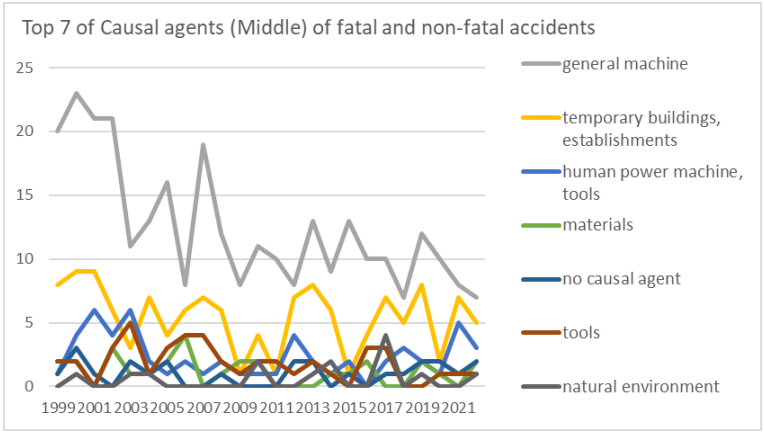
Transition of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)



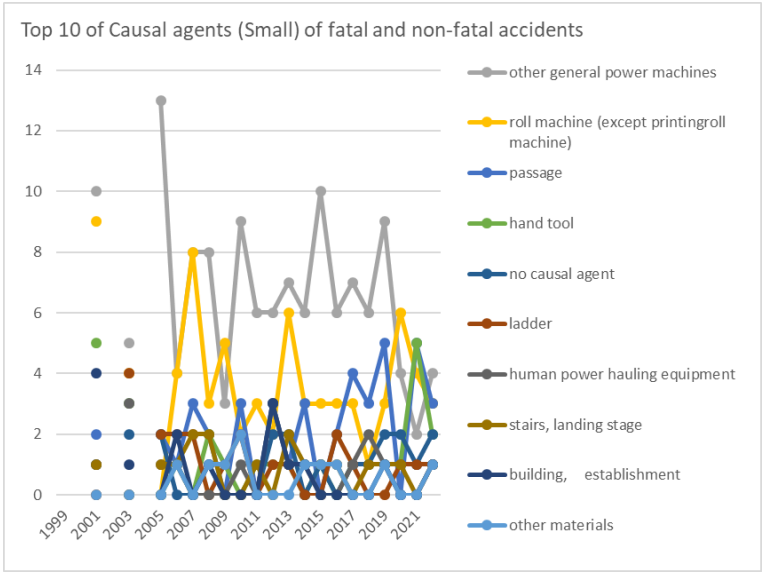
Transition of Top 7 of Type of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)



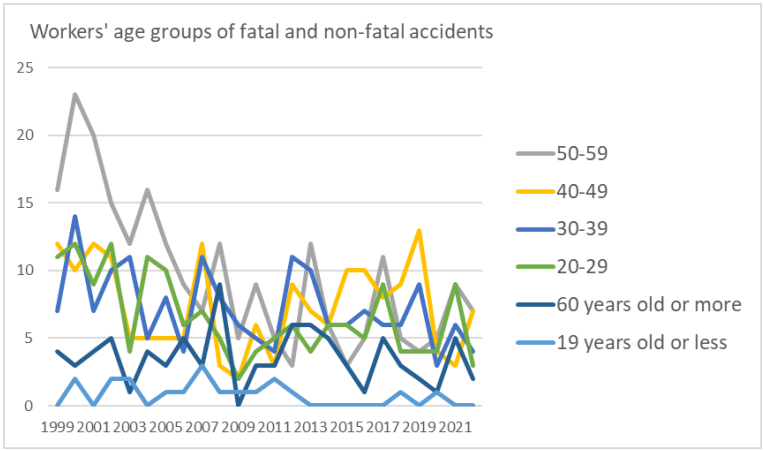
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)



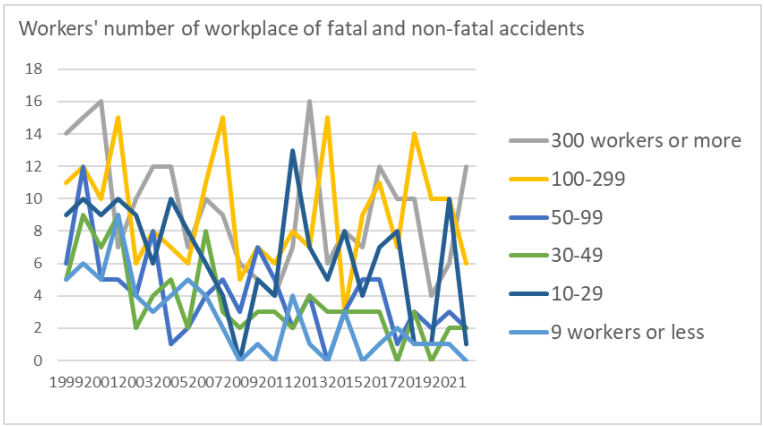
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)



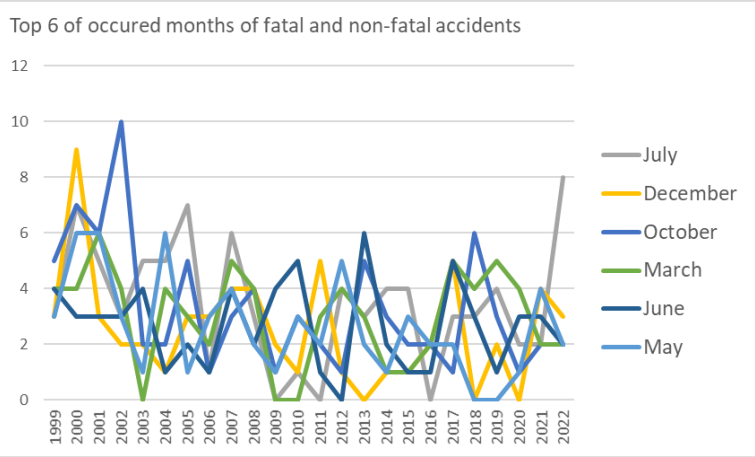
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)



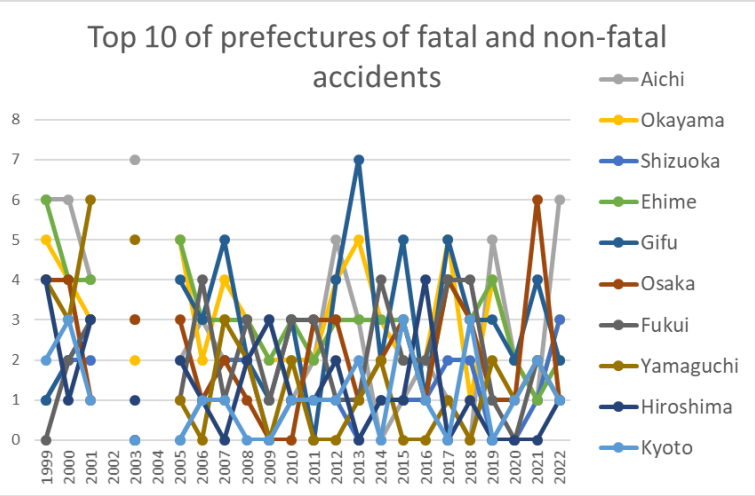
Transition of workers' age groups of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Type of accidents
caught in/between	25	27	21	23	13	18	14	10	20	15	9	8	9	12	16	13	11	14	15	10	11	11	8	6	339	caught in/between
reaction to																										reaction to

motion/improper motion	4	7	2	3	3	3	5	3	3	3		4	3	3	7	1	3	1	5	4	3	2	2	4	78	motion/improper motion
falling to same level	8	9	6	4	6	6	5	6	5	6	3	4	3	4	5	5	1	5	6	4	8	1	8	3	121	falling to same level
fall from height	3	6	5	3	6	1	5	4	5	2	1	6	2	4	4	3	1	4	3	3	2	2	1	3	79	fall from height
cut	3	1	8	7	3	2	5	1	5	2	1	3		3	2		1	1	2	2	1		5	1	59	cut
contact to high/low-temperature	3	6	2	3	2	1	1	1	1	2	1	1	1	1	1	1	1	1	3	2	3		2	1	41	contact to high/low-temperature
struck by flying or falling object	2	4	1	3		2	1	4		2			2	2	1	2	2		1	1	1			1	32	struck by flying or falling object
crash		2	1			3	1	1	1	4	1		1	1	2	1	1	1	2		2	1	1	1	28	crash
contact to harmful substance				1		2	1		1					3		2	2	1	1					1	15	contact to harmful substance
unclassifiable			1																					1	2	unclassifiable
electric shock																								1	1	electric shock
crashed by	2		2	2	1		1		1	1		1	1	1	1	1	5		1	1			2		24	crashed by
collapse		2		2		1			1					1									1		8	collapse
others			1							1											1		2		5	others
explosion				2																1		1			4	explosion
fire				2								1													3	fire
injury to the sole of the foot					1	1																			2	injury to the sole of the foot
drown			1																						1	drown

burst			1																						1	burst
traffic accident (public road)														1											1	traffic accident (public road)
traffic accident (others)						1																			1	traffic accident (others)
total	50	64	52	55	35	41	39	30	43	38	16	28	22	36	39	29	28	28	39	28	32	18	32	23	845	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Causal (L) agents
machine	21	28	25	22	11	16	17	9	21	14	8	12	10	8	15	11	13	11	14	8	12	10	11	7	334	machine
other equipment	5	7	9	13	13	5	6	7	5	6	3	5	4	6	5	3	4	3	6	6	3	3	6	6	139	other equipment
temporary buildings, establishments	8	9	9	6	3	7	4	6	7	6	1	4	1	7	8	6	1	4	7	5	8	2	7	5	131	temporary buildings, establishments
substance, material	4	3		6	2	3	4	4	1	2	2	3	1	3		3	4	3	1	1	3	1	1	2	57	substance, material
others	2	4	3		2	1	2	1	1	1				3	2		1		1	3	4	2	3	2	38	others
environment		1			1	1						2			1	2			4		1			1	14	environment
crane, conveying machine	8	8	4	3	3	7	3	1	4	7	2		4	5	3	3	4	5	4	2	1		3		84	crane, conveying machine
load	2	4	2	5		1	3	2	4	2		2	2	4	5	1	1	2	2	3			1		48	load

total	50	64	52	55	35	41	39	30	43	38	16	28	22	36	39	29	28	28	39	28	32	18	32	23	845	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 010802 chemical fiber in Japan (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	Causal (M) agents
general machine	20	23	21	21	11	13	16	8	19	12	8	11	10	8	13	9	13	10	10	7	12	10	8	7	300	general machine
temporary buildings, establishments	8	9	9	6	3	7	4	6	7	6	1	4	1	7	8	6	1	4	7	5	8	2	7	5	131	temporary buildings, establishments
human power machine, tools	1	4	6	4	6	2	1	2	1	2	1	1	1	4	2	1	2		2	3	2	1	5	3	57	human power machine, tools
materials	2	2		3	1	1	2	4		1	2	2				1	1	2			2	1		2	29	materials
no causal agent	1	3	1		2	1	2			1				2	2		1		1	1	2	2	1	2	25	no causal agent
tools	2	2		3	5	1	3	4	4	2	1	2	2	1	2	1		3	3			1	1	1	44	tools
natural environment		1			1	1						2			1	2			4		1			1	14	natural environment
chemical facilities	2	1		1		1																1		1	7	chemical facilities
kiln, caldron				1								1			1									1	4	kiln, caldron
conveying machine	6	5	4	3	2	6	3	1	4	7	2		1	4	2	3	4	5	3	2			2		69	conveying machine
load	2	4	2	5		1	3	2	4	2		2	2	4	5	1	1	2	2	3			1		48	load
																										hazards,

hazards, harmful substances	2	1		3	1	2	2		1	1		1	1	3		2	3	1	1	1	1		1		28	harmful substances
other equipments, facilities			3	3	2	1	2	1		2		1	1	1		1	2		1		1				22	other equipments, facilities
power transmission mechanism		2	2	1		1	1		1	2					1	1		1	3	1			1		18	power transmission mechanism
metal manufacturing machine	1	3	1			1		1	1						1	1									10	metal manufacturing machine
vehicle		2			1	1							3	1					1				1		10	vehicle
other causal agent	1	1						1	1					1						1	2		2		10	other causal agent
crane	2	1													1						1				5	crane
pressure vessel				1							1									1					3	pressure vessel
unclassifiable			2																	1					3	unclassifiable
engine						1																	1		2	engine
woodworking machine			1																				1		2	woodworking machine
construction machine												1							1						2	construction machine
electric equipment																				2					2	electric equipment
																										mobile

mobile silviculture machine																										silviculture machine
welding equipment																										welding equipment
total	50	64	52	55	35	41	39	30	43	38	16	28	22	36	39	29	28	28	39	28	32	18	32	23	845	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Causal (S) agents
other general power machines			10		5		13	4	8	8	3	9	6	6	7	6	10	6	7	6	9	4	2	4	133	other general power machines
roll machine (except printingroll machine)			9		4			4	8	3	5	2	3	2	6	3	3	3	3	1	3	6	4	3	75	roll machine (except printingroll machine)
passage			2				2	1	3	2		3		3	1	3		2	4	3	5		5	3	42	passage
hand tool			5		3			1		2	1		1	1	1		1		1	1	1	1	5	2	27	hand tool
no causal agent			1		2		2			1				2	2		1		1	1	2	2	1	2	20	no causal agent
ladder					4		2	2	2		1	2		1	1			2	1			1	1	1	21	ladder
human power hauling equipment			1		3		1	1				1		3	1	1			1	2	1			1	17	human power hauling equipment
stairs, landing stage			1				1	1	2	2			1		2	1	1	1		1	1	1		1	17	stairs, landing stage
building, establishment			4		1			2		1				3	1	1					1			1	15	building, establishment
other materials								1		1	1	2				1	1	1			1			1	10	other materials
metal material					1		1	3			1										1	1		1	9	metal material

high/cold temperature environment																1			2		1			1	5	high/cold temperature environment
chemical facilities																						1		1	2	chemical facilities
other kiln, caldron																								1	1	other kiln, caldron
load			2				2	2	4	2		2	2	4	5	1	1	2	2	3			1		35	load
forklift					1		2	1		4	1		1	1	1	2	3	2	2				1		22	forklift
other equipment, facilities			3		2		2	1		2		1	1	1		1	2		1		1				18	other equipment, facilities
working platform, boot board			1					1	2	1	1			1	2			1	2		1		2		15	working platform, boot board
power transmission mechanism			2				1		1	2					1	1		1	3	1			1		14	power transmission mechanism
conveyor			1		1		1		1	1	1			3	1	1	1			1			1		14	conveyor
other tools					1		1		2	2			2		1	1		1	2						13	other tools
harmful substance							1		1					3			2	1			1				9	harmful substance
other hazards, harmful substances					1		1			1		1	1			2	1		1						9	other hazards, harmful substances
truck			2						1	1								2	1	1					8	truck
other temporary buildings, establishments			1		1		1								2				1	1		1			8	other temporary buildings, establishments
other causal agent								1	1					1						1	2		2		8	other causal agent
mixer, grinder			1				1		2				1					1							6	mixer, grinder
printing machine			1		2		2																1		6	printing machine

other environments					1							2				1			2						6	other environments
other powered conveying machines			1						2	1								1							5	other powered conveying machines
cars, bus, motorcycle					1								3	1											5	cars, bus, motorcycle
power press			1					1	1																3	power press
scaffolding					1							1				1									3	scaffolding
unclassifiable			2																	1					3	unclassifiable
circular sawing machine			1																				1		2	circular sawing machine
centrifugal machine									1	1															2	centrifugal machine
crane															1						1				2	crane
other vehicles																			1				1		2	other vehicles
industrial dryer												1			1										2	industrial dryer
electric power facilities																				2					2	electric power facilities
slinging tool								2																	2	slinging tool
lumber, bamboo							1											1							2	lumber, bamboo
engine																							1		1	engine
demolition machine																			1						1	demolition machine
vehicle for high lift work											1														1	vehicle for high lift work
lathe															1										1	lathe
grinding machine,																										grinding machine,

buffing machine																1									1	buffing machine
industrial robot																							1		1	industrial robot
pressure vessel										1															1	pressure vessel
other pressure vessels																			1						1	other pressure vessels
human power cranes																1									1	human power cranes
human power machine								1																	1	human power machine
roof, beam, haze, crossbeam, principal rafter							1																		1	roof, beam, haze, crossbeam, principal rafter
inflammable substance																			1						1	inflammable substance
inflammable gas																							1		1	inflammable gas
machine/equipment as load						1																			1	machine/equipment as load
standing tree														1											1	standing tree
band sawing machine																										band sawing machine
wood planer machine																										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																										chain saw
other woodworking machines																										other woodworking machines
leveling, transporting or loading machine																										leveling, transporting or loading machine
excavating machine																										excavating machine
foundation work machine																										foundation work machine
hardening machine																										hardening machine
other construction machines																										other construction machines
drill press, milling machine																										drill press, milling machine
forging pressure hammer																										forging pressure hammer
shearing machine																										shearing machine
other metal manufacturing machines																										other metal manufacturing machines
injection molding																										injection molding

machine																									machine
food manufacturing machine																									food manufacturing machine
felling machine																									felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
mobile crane																									mobile crane
derrick crane																									derrick crane
elevator, lift																									elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane																									other powered crane
railway equipment																									railway equipment

loader																									loader
straddle carrier																									straddle carrier
rough terrain hauler																									rough terrain hauler
railway vehicle																									railway vehicle
boiler																									boiler
gas welding equipment																									gas welding equipment
arc welding equipment																									arc welding equipment
other welding equipment																									other welding equipment
kiln, caldron																									kiln, caldron
transmission																									transmission
other electrical equipment																									other electrical equipment
timbering																									timbering
opening																									opening
explosive substance																									explosive substance
radiation																									radiation
stone, sand, substance																									stone, sand, substance
natural ground, rock																									natural ground, rock
water																									water

abnormal environment																										abnormal environment
total	50	64	52	55	35	41	39	30	43	38	16	28	22	36	39	29	28	28	39	28	32	18	32	23	845	total

Transition of workers' age groups of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Age
50-59	16	23	20	15	12	16	12	9	7	12	5	9	5	3	12	6	3	5	11	5	4	5	9	7	231	50-59
40-49	12	10	12	11	5	5	5	5	12	3	2	6	3	9	7	6	10	10	8	9	13	4	3	7	177	40-49
30-39	7	14	7	10	11	5	8	4	11	8	6	5	4	11	10	6	6	7	6	6	9	3	6	4	174	30-39
20-29	11	12	9	12	4	11	10	6	7	5	2	4	5	6	4	6	6	5	9	4	4	4	9	3	158	20-29
60 years old or more	4	3	4	5	1	4	3	5	3	9		3	3	6	6	5	3	1	5	3	2	1	5	2	86	60 years old or more
19 years old or less		2		2	2		1	1	3	1	1	1	2	1						1		1			19	19 years old or less
total	50	64	52	55	35	41	39	30	43	38	16	28	22	36	39	29	28	28	39	28	32	18	32	23	845	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Workers scale
300 workers or more	14	15	16	7	10	12	12	7	10	9	6	5	4	7	16	6	8	7	12	10	10	4	6	12	225	300 workers or more
100-299	11	12	10	15	6	8	7	6	11	15	5	7	6	8	7	15	3	9	11	7	14	10	10	6	219	100-299
50-99	6	12	5	5	4	8	1	2	4	5	3	7	5	2	4		3	5	5	1	3	2	3	2	97	50-99
30-49	5	9	7	9	2	4	5	2	8	3	2	3	3	2	4	3	3	3	3		3		2	2	87	30-49
10-29	9	10	9	10	9	6	10	8	6	4		5	4	13	7	5	8	4	7	8	1	1	10	1	155	10-29
9 workers or less	5	6	5	9	4	3	4	5	4	2		1		4	1		3		1	2	1	1	1		62	9 workers or less

total	50	64	52	55	35	41	39	30	43	38	16	28	22	36	39	29	28	28	39	28	32	18	32	23	845	total

Transition of occured months of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Month
July	3	7	5	3	5	5	7	1	6	3		1		4	3	4	4		3	3	4	2	2	8	83	July
December	3	9	3	2	2	1	3	3	4	4	2	1	5	1		1	1	2	5		2		4	3	61	December
October	5	7	6	10	2	2	5	1	3	4	1	3	2	1	5	3	2	2	1	6	3	1	2	2	79	October
March	4	4	6	4		4	3	2	5	4			3	4	3	1	1	2	5	4	5	4	2	2	72	March
June	4	3	3	3	4	1	2	1	4	2	4	5	1		6	2	1	1	5	3	1	3	3	2	64	June
May	3	6	6	3	1	6	1	3	4	2	1	3	2	5	2	1	3	2	2			1	4	2	63	May
August	2	2	4	4	5	2	2	2	4	4	1	2	1	1	3	3	2	3	4	2	3			2	58	August
January	6	4	4	9	4	4	1	3	2	2	3	5	2	6	2	4	4	3	3	2		3	2	1	79	January
April	4	8	3	6	2	6	5	1	2	5	1	2	5	4	1	4	1	2		1	3	1	6	1	74	April
February	3	4	4	3	3	3	4	2	3	2	2		1	5	6	2	5	3	5	4	8	1	5		78	February
November	5	4	4	2	3	3	4	8	5	2	1	1		2	5	3	1	5	5	1	2	2	1		69	November
September	8	6	4	6	4	4	2	3	1	4		5		3	3	1	3	3	1	2	1		1		65	September
total	50	64	52	55	35	41	39	30	43	38	16	28	22	36	39	29	28	28	39	28	32	18	32	23	845	total

Transition of prefectures of fatal and non-fatal accidents in 010802 chemical fiber in Japan (1999-2022)

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Prefecture
Aichi	6	6	4		7		2	3	2	2	3	1	2	5	3		1	2	1		5	2	1	6	64	Aichi
Okayama	5	4	3		2		5	2	4	3	2	2	2	4	5	3	2	2	5	1	4	2	1	3	66	Okayama
Shizuoka	1	2	2					1	2	2		1	1	1		1	1	1	2	2			1	3	24	Shizuoka
Ehime	6	4	4		3		5	3	3	3	2	3	2	3	3	3	3	1	4	3	4	2	1	2	67	Ehime

Gifu	1	2	3				4	3	5	2	1	3		4	7	2	5	1	5	3	3	2	4	2	62	Gifu
Osaka	4	4	1		3		3	1	2	1			3	3	1	2	3	1	4	3	1	1	6	1	48	Osaka
Fukui		2	3				1	4	1	3	1	3	3	1	1	4	2	2	4	4	1		2	1	43	Fukui
Yamaguchi	4	3	6		5		1		3	2		2			1	2			1		2	1	2	1	36	Yamaguchi
Hiroshima	4	1	3		1		2	1		2	3	1	1	2		1	1	4		1				1	29	Hiroshima
Kyoto	2	3	1					1	1			1	1	1	2		3	1		3		1	2	1	24	Kyoto
Miyazaki	2	2	1		1		1	3		1	1			1								1		1	15	Miyazaki
Mie	1	2	1		3						1										1			1	10	Mie
Shiga		3	4		1		1	1	3	5			2	2	4	3		2	2		3		1		37	Shiga
Toyama	1	2	1		3		3		7	3		2	2	2	2	1	1	3	1				1		35	Toyama
Hyogo	3	3	1		2		1		1	2		3		2	1	2	2	1	1	1	6	3			35	Hyogo
Tochigi	1	2	3		2		1			2		4				2	2	1	1	1			1		23	Tochigi
Shimane	1		1							1			1		2			1	2	2	1	1	3		16	Shimane
Fukuoka	2	1	4					1	3		1		1	1											14	Fukuoka
Gunma		2	1				4		2					1	2					1					13	Gunma
Tokushima		3						1	1					1	2		2	1					1		12	Tokushima
Fukushima							1		2			1			1	1			2	2					10	Fukushima
Kanagawa	1	3					3	1																	8	Kanagawa
Ishikawa			1													1		1	2	1		1	1		8	Ishikawa
Chiba	1		1							1			1	1				2							7	Chiba
Wakayama			1		2			2	1										1						7	Wakayama
Ibaraki		1						1		1		1			1				1						6	Ibaraki
Hokkaido										1					1	1							2		5	Hokkaido

Saitama		3	1																		1				5	Saitama
Tokyo	3	2																							5	Tokyo
Aomori		2																				1			3	Aomori
Yamagata								1													1				2	Yamagata
Nara										1												1			2	Nara
Kagawa		1									1														2	Kagawa
Iwate	1																								1	Iwate
Niigata																		1							1	Niigata
Yamanashi			1																						1	Yamanashi
Nagano							1																		1	Nagano
Kochi														1											1	Kochi
Saga		1																							1	Saga
Miyagi																										Miyagi
Akita																										Akita
Tottori																										Tottori
Nagasaki																										Nagasaki
Kumamoto																										Kumamoto
Oita																										Oita
Kagoshima																										Kagoshima
Okinawa																										Okinawa
total	50	64	52	55	35	41	39	30	43	38	16	28	22	36	39	29	28	28	39	28	32	18	32	23	845	total

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