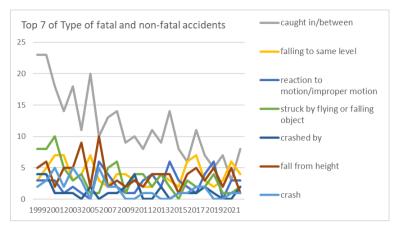
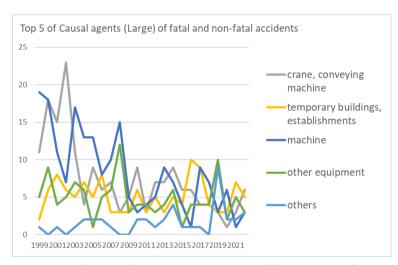
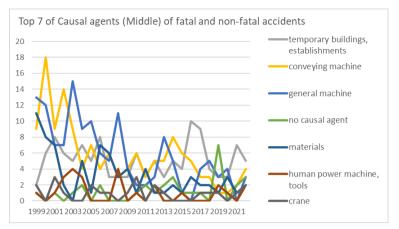
## Transition of fatal and non-fatal accidents in 010904 fire resisting products in Japan (1999-2022)



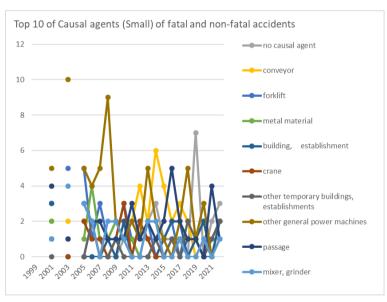
Transition of Top 7 of Type of fatal and non-fatal accidents in 010904 fire resisting products in Japan (1999-2022)



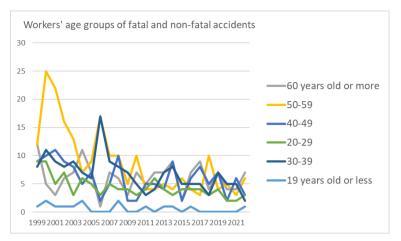
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 010904 fire resisting products in Japan (1999-2022)



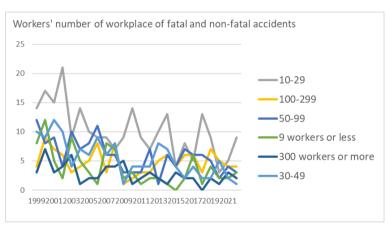
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 010904 fire resisting products in Japan (1999-2022)



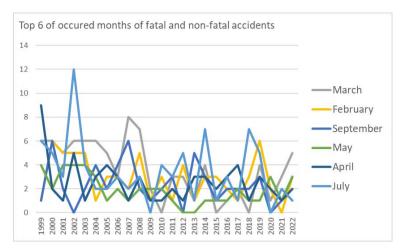
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 010904 fire resisting products in Japan (1999-2022)



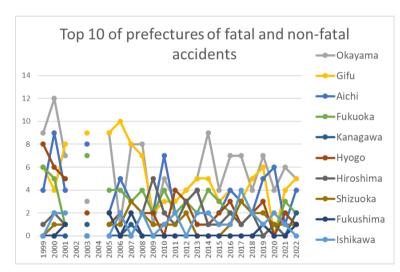
Transition of workers' age groups of fatal and non-fatal accidents in 010904 fire resisting products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 010904 fire resisting products in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 010904 fire resisting products in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 010904 fire resisting products in Japan (1999-2022)

## Transition of Type of fatal and non-fatal accidents in 010904 fire resisting products 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	23	23	18	14	18	11	20	10	13	14	9	10	8	11	9	14	8	6	11	7	5	7	3	8	280	caught
caught m/ between		23					20															,				in/between
falling to same level	3	5	7	7	3	4	7	3	2	4	4	3	2	2	4	3	2	6	7	3	2	3	6	4	96	falling to same

																										level
reaction to motion/improper motion	3	3	3	1	2	1		6	4	2	1	1	3	4	2	6	3	2	1	4	6		3	3	64	reaction to motion/improper motion
struck by flying or falling object	8	8	10	5	3	4	1	1	5	6	1	4	4	2	4	2		3	2	2	4	1	1	2	83	struck by flying or falling object
crashed by	4	4	1	1	1		2		1	1	2	4			2		1	1	1	2	1			2	31	crashed by
fall from height	5	6	2	5	5	9	2	10	2	3	2	3	2	4	4	4	1	4	5	3	5	2	5	1	94	fall from height
crash	2	3	5	2	5	3		5	2	2			1	1			1	1	2	2			1	1	39	crash
cut	1	2	2	2	3	3		1	1	3	1			1		1	2					1		1	25	cut
contact to high/low- temperature	1	3		2		1	1	1	2	2		1	1				1			1	1	1	1		20	contact to high/low- temperature
collapse		2	1		1	2		1	2	1			1		2	1		1		1		1			17	collapse
traffic accident (public			2	8					1							1		1			1				14	traffic accident (public road)
others							1								1	2		1			3	2			10	others
contact to harmful substance										2	1			1							1				5	contact to harmful substance
explosion		2						2										1							5	explosion
unclassifiable									1			1													2	unclassifiable
injury to the sole of the foot		1																							1	injury to the sole
electric shock	1																								1	electric shock

drown																										drown
burst																										burst
fire																										fire
traffic accident																										traffic accident
(others)																										(others)
total	51	62	51	47	41	38	34	40	36	40	21	27	22	26	28	34	19	27	29	25	29	18	20	22	787	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 010904 fire resisting products 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
crane, conveying machine	11	18	15	23	11	4	9	6	7	3	5	9	3	7	7	9	6	6	4	4	3	1	3	6		crane, conveying machine
temporary buildings, establishments	2	6	8	6	5	7	5	8	3	3	3	6	3	5	3	5	4	10	9	4	3	3	7	5		temporary buildings, establishments
machine	19	18	11	7	17	13	13	8	10	15	5	3	4	5	9	7	4	1	9	7	3	6	1	3	198	machine
other equipment	5	9	4	5	7	6	1	5	6	12	3	4	4	3	4	6	1	4	4	4	10	2	5	3	117	other equipment
others	1		1		1	2	2	2	1			2	2	1	2	4	1	1	1		9	2	2	3	40	others
substance, material	11	8	9	3		5	2	8	6	5	5	1	5	1	1	2	1	3	2	2	1	3	1	2	87	substance, material
load	1	1	3	3		1	1	3	2	2		1	1	3	2	1	1	1		3		1			31	load
environment	1	2					1		1			1		1			1	1		1			1		11	environment

total   51   62   51   4	47   41   38   34   40	<b>  36   40   21   27   22   26   2</b>	28   34   19   27   29   25   29   18   20   22   787   total
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Transition of Causal agents (Middle) of fatal and non-fatal accidents in 010904 fire resisting products 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)
temporary buildings, establishments	2	6	8	6	5	7	5	8	3	3	3	6	3	5	3	5	4	10	9	4	3	3	7	5	123	temporary buildings, establishments
conveying machine	9	18	9	14	9	4	7	4	6	3	4	6	3	5	5	8	6	5	3	3	1	1	2	4	139	conveying machine
general machine	13	12	7	7	15	9	10	6	5	11	4	2	2	3	8	5	1		4	5	3	4		3	139	general machine
no causal agent	1		1		1	2		2				1	2	1	2	3	1	1	1		7		2	3	31	no causal agent
materials	11	8	7	2		5	1	7	6	3	4	1	4	1	1	2	1	3	2	2	1	3	1	2	78	materials
human power machine,	1		1	3	4	3				4		1		2			1				2	1		2	25	human power
crane	2		3	1			2	1	1		1	3		2	1				1	1	1		1	2	23	crane
other equipments,	3		1		1				1	3		2	3		1	1				1	1			1	19	other equipments, facilities
tools	1	6	2	2	2	3	1	3	5	5		1	1	1	3	3		2	4	3	6	1	5		60	tools
load	1	1	3	3		1	1	3	2	2		1	1	3	2	1	1	1		3		1			31	load
metal manufacturing machine	1	3	3		1	1	2	2	2	3	1	1	1	2			1		2	1		1	1		29	metal manufacturing

																									machine
power transmission mechanism	3	2	1			2	1			1			1		1	2	1	1	2	1				19	power transmission mechanism
vehicle			3	8	2			1							1	1		1			1			18	vehicle
kiln, caldron		2						2			3					2		2						11	kiln, caldron
natural environment	1	2					1		1			1		1			1	1		1			1	11	natural environment
woodworking machine	2				1	1			2								1		1			1		9	woodworking machine
hazards, harmful substances			2	1			1	1		2	1		1											9	hazards, harmful substances
other causal agent							2					1				1					2	2		8	other causal agent
construction machine		1							1															2	construction machine
pressure vessel																					1			1	pressure vessel
welding equipment		1																						1	welding equipment
unclassifiable									1															1	unclassifiable
engine																									engine
mobile silviculture machine																									mobile silviculture machine

chemical facilities																										chemical
chemical facilities																										facilities
electric equipment																										electric
ciccure equipment																										equipment
total	51	62	51	47	41	38	34	40	36	40	21	27	22	26	28	34	19	27	29	25	29	18	20	22	787	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 010904 fire resisting products 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
no causal agent			1		1			2				1	2	1	2	3	1	1	1		7		2	3	28	no causal agent
conveyor			2		2		2	2		1	2	2	2	4	2	6	4	2	3	2		1	1	2	42	conveyor
forklift			3		5		5	1	3	1	1	3	1		2		1	2		1	1			2	32	forklift
metal material			2				1	4	1	1	2	1	1			1		1	1		1	2		2	21	metal material
building, establishment			3							1		2		2	1		1	2	2		1	2		2	19	building, establishment
crane			1				2	1	1		1	3		2	1				1	1	1		1	2	18	crane
other temporary buildings, establishments					1			2			1					1		1		2	1		1	2	12	other temporary buildings, establishments
other general power machines			5		10		5	4	5	9	2	1	2	1	5	2	1		2	5	1	3		1	64	other general power machines
passage			4		1		3	2	2	1	1	1	3	1	2	1	2	5	2	1	1		4	1	38	passage
mixer, grinder			1		4		3	2		2	2	1			2	2			1			1		1	22	mixer, grinder
other equipment, facilities			1		1				1	3		2	3		1	1				1	1			1	16	other equipment,
human power																										human power

hauling equipment		1	1				2		1		2							1	1		1	10	hauling equipment
hand tool			3				2							1				1			1	8	hand tool
industrial robot				1														1			1	3	industrial robot
other tools		2	1			3	3				1	2	2		2	3	3	2	1	1		26	other tools
other materials		4			1	5		1		2	1		1	1	2	1	1			1		21	other materials
load		3			3	2			1	1	3	2	1	1	1		2		1			21	load
ladder				1	3	2	2					1	1			1		3		4		18	ladder
stairs, landing stage					2	1	1	1	2		1			1	2	1	1		1	1		15	stairs, landing stage
power press		1		2	1		2	1	1	1	1			1			1		1			13	power press
other powered conveying machines		3	2		1	2		1				1	1	1	1							13	other powered conveying machines
power transmission mechanism		1		1			1			1		1	2	1	1	2	1					12	power transmission mechanism
cars, bus, motorcycle		3	2		1							1	1		1			1				10	cars, bus, motorcycle
working platform, boot board		1	1	1	1				1				1			3						9	working platform, boot board
other causal agent				2					1				1					2	2			8	other causal agent
injection molding machine		1									2	1				1		1				6	injection molding
truck		1				1	1				1		1							1		6	truck
kiln, caldron								3					2		1							6	kiln, caldron
stone, sand, substance		1			1		2	1									1					6	stone, sand, substance

grinding machine,		1			1		1				1					1					5	grinding machine, buffing machine
high/cold temperature environment						1			1					1			1			1	5	high/cold temperature environment
circular sawing			1			1								1					1		4	circular sawing machine
slinging tool			1						1	1								1			4	slinging tool
scaffolding			1	1									2								4	scaffolding
other hazards, harmful substances		1			1		1	1													4	other hazards, harmful substances
lumber, bamboo					1					1		1							1		4	lumber, bamboo
machine/equipment as load				1			2										1				4	machine/equipment as load
drill press, milling machine			1			1														1	3	drill press, milling machine
roll machine (except printingroll machine)			1	1									1								3	roll machine (except printingroll machine)
industrial dryer					2										1						3	industrial dryer
roof, beam, haze, crossbeam, principal rafter			1													1				1	3	roof, beam, haze, crossbeam, principal rafter
harmful substance		1					1			1											3	harmful substance
other environments				1							1				1						3	other environments

other woodworking						1						1			2	other woodworking machines
other metal manufacturing machines		1				1									2	other metal manufacturing machines
opening					1				1						2	opening
other construction machines						1									1	other construction machines
lathe												1			1	lathe
elevator, lift		1													1	elevator, lift
other powered crane		1													1	other powered crane
loader								1							1	loader
boiler													1		1	boiler
inflammable gas				1											1	inflammable gas
unclassifiable						1									1	unclassifiable
engine																engine
band sawing machine																band sawing machine
wood planer machine																wood planer machine
hollow chisel mortiser, wood borer chamfering																hollow chisel mortiser, wood borer chamfering

machine, router, woodworking milling machine													machine, router, woodworking milling machine
chain saw													chain saw
leveling, transporting or loading machine													leveling, transporting or loading machine
excavating machine													excavating machine
foundation work													foundation work
hardening machine													hardening machine
demolition machine													demolition machine
vehicle for high lift work													vehicle for high lift work
forging pressure hammer													forging pressure hammer
shearing machine													shearing machine
centrifugal machine													centrifugal machine
food manufacturing													food manufacturing
printing machine													printing machine
felling machine													felling machine
mobile logging machine													mobile logging machine

skyline yarding													skyline yarding
machine													machine
other mobile													other mobile
silviculture machine													silviculture machine
mobile crane													mobile crane
derrick crane													derrick crane
cargo lifting													cargo lifting
appliance													appliance
gondola													gondola
lumberyard													lumberyard
equipment, logging													equipment, logging
cableway													cableway
simple skyline													simple skyline
yarding equipment													yarding equipment
railway equipment													railway equipment
straddle carrier													straddle carrier
rough terrain hauler													rough terrain hauler
railway vehicle													railway vehicle
other vehicles													other vehicles
pressure vessel													pressure vessel
other pressure													other pressure
vessels													vessels
chemical facilities													chemical facilities
gas welding													gas welding
equipment													equipment

			 $\square$	 $\sqsubseteq$	<u> </u>	$\square$	$\square$	$\square$	$\square$	الــــــــــــــــــــــــــــــــــــ	 	 	$\square$	$\square$	 	 	
arc welding																a	arc welding
equipment																	equipment
other welding																c	other welding
equipment																E	equipment
other kiln, caldron																c	other kiln, caldron
transmission																t	transmission
electric power																e	electric power
facilities																f	facilities
other electrical																c	other electrical
equipment																E	equipment
human power																r	numan power
cranes																	cranes
human power																r	numan power
machine																r	machine
timbering																t	timbering
explosive substance																e	explosive substance
inflammable																i	nflammable
substance																s	substance
radiation																r	radiation
natural ground,																r	natural ground,
rock																r	rock
standing tree																s	standing tree
water																v	water
abnormal																a	abnormal

environment																										environment	
total	51	62	51	47	41	38	34	40	36	40	21	27	22	26	28	34	19	27	29	25	29	18	11/0	22	787	total	

Transition of workers' age groups of fatal and non-fatal accidents in 010904 fire resisting products 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
60 years old or	12	5	3	6	7	11	7	1	7	6	3	7	5	7	7	9	2	7	9	4	7	4	4	7	147	60 years old or
more																										more
50-59	12	25	22	16	13	7	9	17	10	10	5	10	4	4	5	4	6	4	3	10	4	5	3	6	214	50-59
40-49	9	10	11	9	8	5	7	2	5	10	2	2	5	5	4	9	2	6	8	5	7	2	6	3	142	40-49
20-29	9	9	5	7	3	6	5	3	5	4	4	3	4	6	4	3	4	4	4	3	4	2	2	3	106	20-29
30-39	8	11	9	8	9	7	6	17	9	8	7	5	3	4	7	8	5	5	5	3	7	5	5	2	163	30-39
19 years old or less	1	2	1	1	1	2				2			1		1	1		1						1	15	19 years old or less
total	51	62	51	47	41	38	34	40	36	40	21	27	22	26	28	34	19	27	29	25	29	18	20	22	787	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 010904 fire resisting products 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
10-29	14	17	15	21	9	14	10	9	9	7	9	14	9	7	10	13	4	8	5	13	9	3	5	9	243	10-29
100-299	4	9	7	6	3	4	5	8	3	8	1	2	3	3	5	6	4	6	6	3	7	5	4	4	116	100-299
50-99	12	8	9	4	10	7	8	11	6	6	3	3	3	7	1	6	4	7	6	6	5	2	4	3	141	50-99
9 workers or less	8	12	5	2	9	5	3	1	8	7	2	3	1	2	2	1		2	6	1	4	2	2	3	91	9 workers or less
300 workers or	3	7	3	4	6	1	2	2	4	4	5	1	2	3	2	1	3	2	2		2	1	3	2	65	300 workers or
more				•		_						•				_										more
30-49	10	9	12	10	4	7	6	9	6	8	1	4	4	4	8	7	4	2	4	2	2	5	2	1	131	30-49
total	51	62	51	47	41	38	34	40	36	40	21	27	22	26	28	34	19	27	29	25	29	18	20	22	787	total

## Transition of occured months of fatal and non-fatal accidents in 010904 fire resisting products 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
March	6	6	5	6	6	6	5	3	8	7	2		3	3	1	4		1	2		4	1	3	5	87	March
February	1	6	5	5	5	1	3	3	2	5	1	3	1	4	1	3	3	2	1	3	6	2		3	69	February
September	1	6	2		2	4	2	4	6	2	1	2	3		5	3	1	2	2	2	3		1	3	57	September
May	4	2	4	4	4	3	1	2	1	2	2	2	1			1	1	1	2	1	1	3	1	3	46	May
April	9	2	1	5	1	3	4	3	1	3	1	1	2	1	3	3	2	3	4	1	3	2	1	2	61	April
July	6	5	3	12	4	2	2	3	2	3		4	3	5	1	7	1	3	1	7	5		2	1	82	July
October	7	2	7	2	7	5	2	5	3	3	9	1		3	4	2	1	2	5		2		1	1	74	October
January	7	7	7	3	1	2	2	7	2	2	2	2	1	3	1	3	2	2	2	3	1		2	1	65	January
August	4	9	5	3	5	1	4	2	3	1		3	3	1	5	4	1	1	2	2		2	2	1	64	August
June	3	11	5	3	1	4	2	3	2	2	1	3	1	1	2	2	3	5	5	1	1	1		1	63	June
December	2	5	3	1	2	4	4	3	2	5	1	3	1	1	1	2	2	3	1	2		4	4	1	57	December
November	1	1	4	3	3	3	3	2	4	5	1	3	3	4	4		2	2	2	3	3	3	3		62	November
total	51	62	51	47	41	38	34	40	36	40	21	27	22	26	28	34	19	27	29	25	29	18	20	22	787	total

## Transition of prefectures of fatal and non-fatal accidents in 010904 fire resisting products 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
Okayama	9	12	7		3		9	1	8	8	1	5	3	4	5	9	4	7	7	4	7	4	6	5	128	Okayama
Gifu	6	4	8		9		9	10	8	7	2	3	3	4	5	5	3	4	3	5	6		4	5	113	Gifu
Aichi	4	9	4		8		2	5	3	2	2	7	2	3	4	1	2	4	3	2	5	6	1	4	83	Aichi
Fukuoka	6	5	1		7		4	4	3	4	2	4	2	3	2	4	3	2	1	2	1		3	2	65	Fukuoka
Kanagawa					1				1													1		2	5	Kanagawa

Hyogo	8	6	5	2	1	2		2	2		4	3	1	1	2	3	1	2	3		2	1	51	Hyogo
Hiroshima	1	2	1		2			2	5	2	1	3	4	1	1	2	1	2		1		1	32	Hiroshima
Shizuoka		1	1		1	1	3	2	1	1	1	2				1	3	2	2	1	1	1	25	Shizuoka
Fukushima			1		2		2												1			1	7	Fukushima
Ishikawa		2	2			2		2		1	2		2	2	1	1	4	2	1	2	1		27	Ishikawa
Osaka	3		1	1		7		1	1		2	1	1	3	1		1						23	Osaka
Chiba	2	5	4	1	1	1		1						1		1	1		1				19	Chiba
Mie	2	1	3	2			3	2	1					1	1					2	1		19	Mie
Hokkaido		2	1					4	1						1		1	1	1				12	Hokkaido
Oita	2	2	1	1												1	1	1					9	Oita
Saitama		1		4														1	1		1		8	Saitama
Niigata		1						1	1	1	1		2	1									8	Niigata
Tokyo	1					1	1			1		2		1									7	Tokyo
Ibaraki		1			1		1							2			1						6	lbaraki
Akita		2	1							1								1					5	Akita
Shimane	1	1	1			1	1																5	Shimane
Kagawa	1	1			1					1				1									5	Kagawa
Nagasaki			1			3					1												5	Nagasaki
Miyagi		1	1		1												1						4	Miyagi
Wakayama	1							1					1							1				Wakayama
Nara	1					1			1														3	Nara
Kagoshima						1	1					1											3	Kagoshima
Aomori													1	1									2	Aomori

lwate	2																								2	lwate
Gunma			1															1							2	Gunma
Fukui					1					1															2	Fukui
Nagano		1	1																						2	Nagano
Shiga			2																						2	Shiga
Yamaguchi		1							1																2	Yamaguchi
Kochi			2																						2	Kochi
Saga		1									1														2	Saga
Yamagata			1																						1	Yamagata
Tokushima					1																				1	Tokushima
Kumamoto	1																								1	Kumamoto
Tochigi																										Tochigi
Toyama																										Toyama
Yamanashi																										Yamanashi
Kyoto																										Kyoto
Tottori																										Tottori
Ehime																										Ehime
Miyazaki																										Miyazaki
Okinawa																										Okinawa
total	51	62	51	47	41	38	34	40	36	40	21	27	22	26	28	34	19	27	29	25	29	18	20	22	787	total

Data Source: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html MHLW, Jaan

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