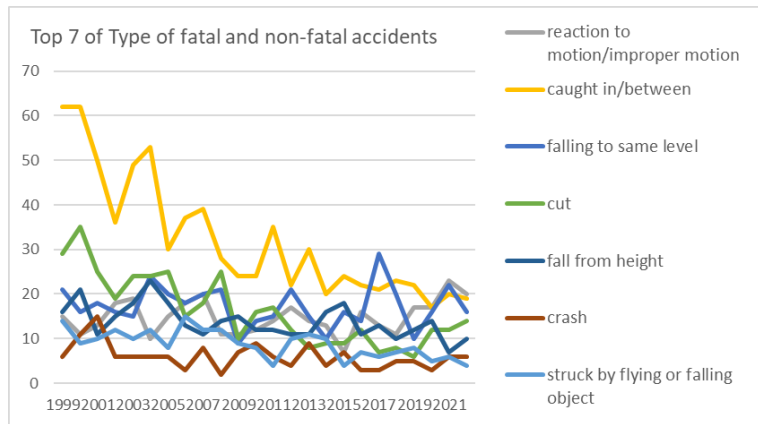
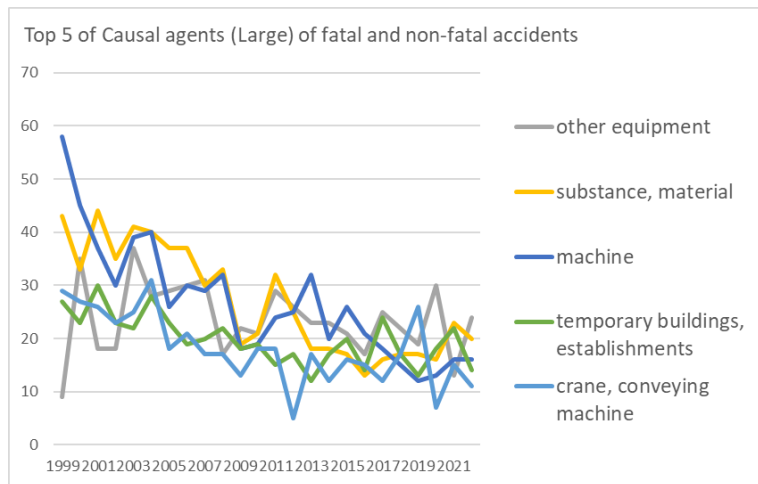


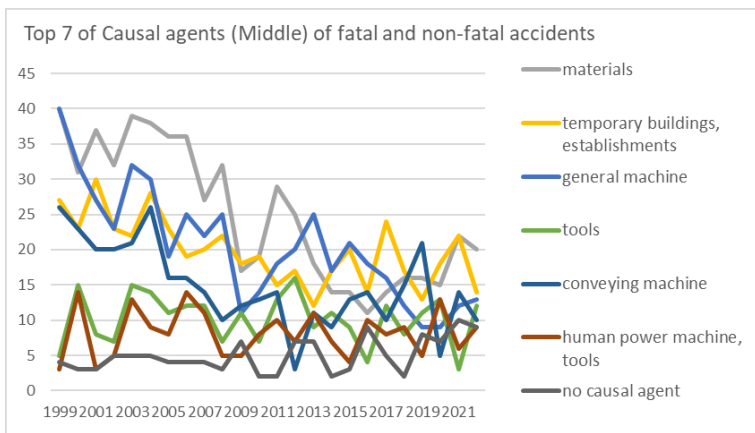
Transition of fatal and non-fatal accidents in 010902 glass products in Japan (1999-2022)



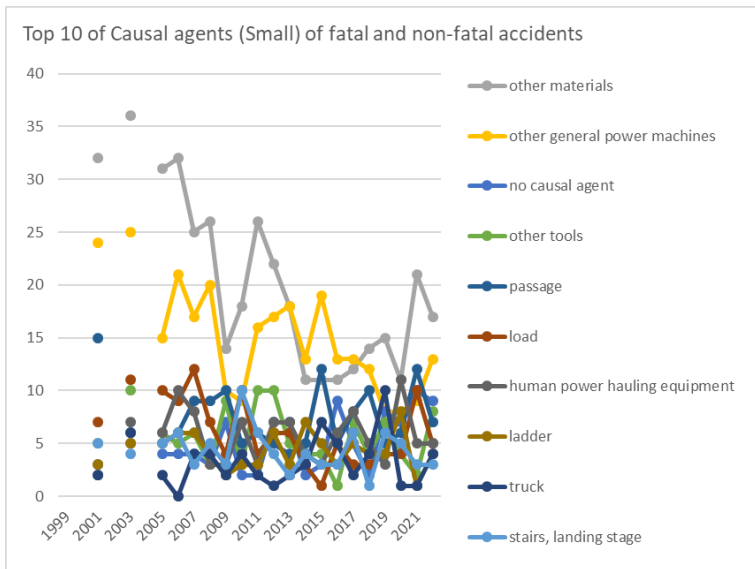
Transition of Top 7 of Type of fatal and non-fatal accidents in 010902 glass products in Japan (1999-2022)



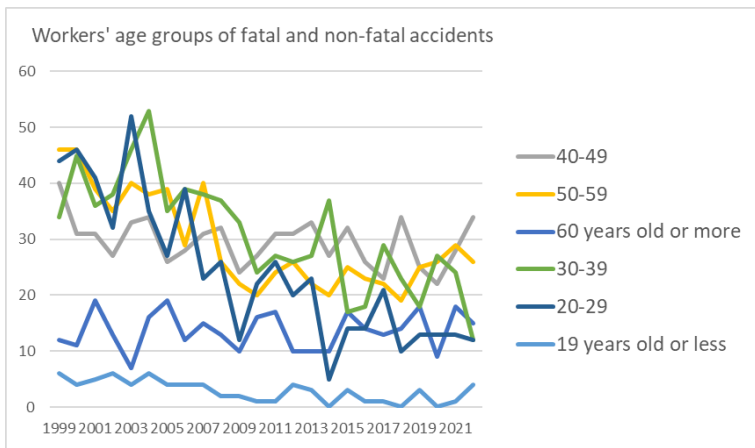
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 010902 glass products in Japan (1999-2022)



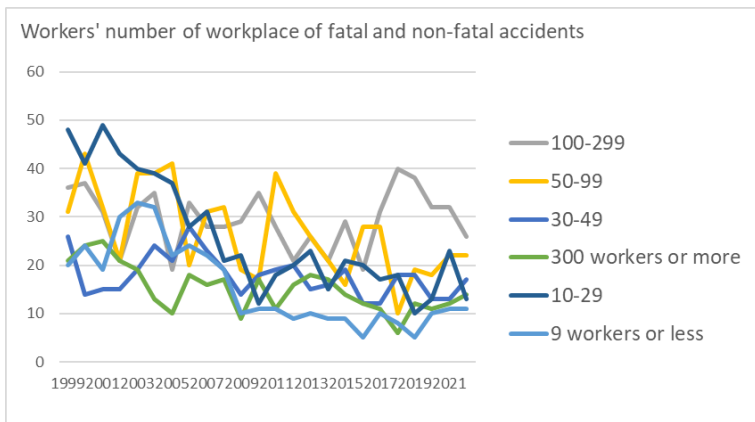
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 010902 glass products in Japan (1999-2022)



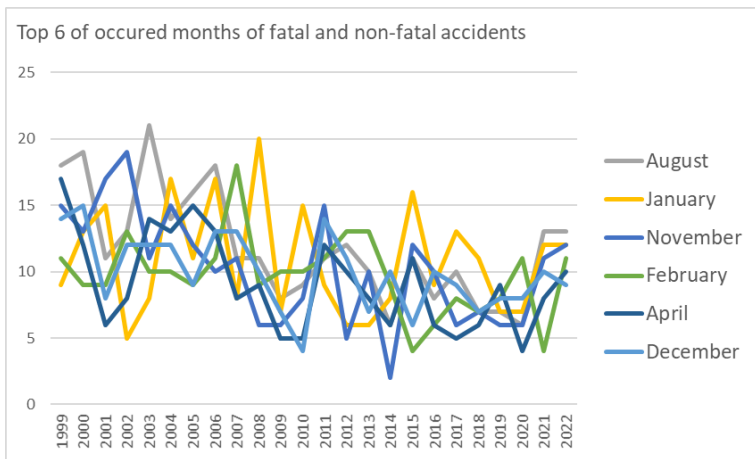
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 010902 glass products in Japan (1999-2022)



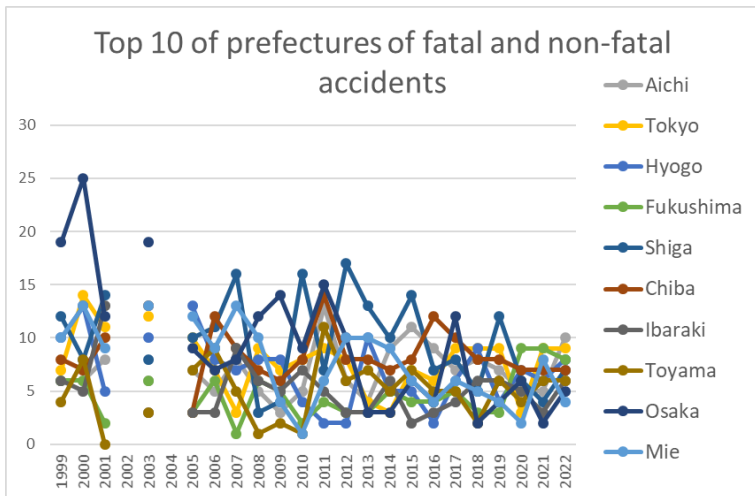
Transition of workers' age groups of fatal and non-fatal accidents in 010902 glass products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 010902 glass products in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 010902 glass products in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 010902 glass products in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 010902 glass 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
reaction to motion/improper motion	15	11	13	18	19	10	15	18	20	11	11	12	14	17	14	13	7	16	13	11	17	17	23	20	355	reaction to motion/improper motion

explosion						1						1										1		3	explosion	
burst					1									1				1						3	burst	
traffic accident (others)		1																						2	traffic accident (others)	
drown																									drown	
total	182	183	171	151	182	182	150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	103	3,140	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 010902 glass 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
other equipment	9	35	18	18	37	28	29	30	31	17	22	21	29	26	23	23	21	17	25	22	19	30	13	24	567	other equipment
substance, material	43	33	44	35	41	40	37	37	30	33	19	21	32	25	18	18	17	13	16	17	17	16	23	20	645	substance, material
machine	58	45	37	30	39	40	26	30	29	32	18	19	24	25	32	20	26	21	18	15	12	13	16	16	641	machine
temporary buildings, establishments	27	23	30	23	22	28	23	19	20	22	18	19	15	17	12	17	20	14	24	17	13	18	22	14	477	temporary buildings, establishments
crane, conveying machine	29	27	26	23	25	31	18	21	17	17	13	18	18	5	17	12	16	15	12	17	26	7	15	11	436	crane, conveying machine
others	11	9	5	6	5	6	4	4	9	5	8	2	2	8	7	3	5	9	8	5	9	7	13	10	160	others
load	5	11	8	11	11	8	11	10	14	7	4	10	4	6	8	3	2	5	3	3	4	4	10	5	167	load
environment			3	5	2	1	2		1	3	1		2	5	1	3	1	2	3	4	2	2	1	3	47	environment
total	182	183	171	151	182	182	150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	103	3,140	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 010902 glass 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) agents
materials	40	31	37	32	39	38	36	36	27	32	17	19	29	25	18	14	14	11	14	16	16	15	22	20	598	materials
temporary buildings, establishments	27	23	30	23	22	28	23	19	20	22	18	19	15	17	12	17	20	14	24	17	13	18	22	14	477	temporary buildings, establishments
general machine	40	32	27	23	32	30	19	25	22	25	11	14	18	20	25	17	21	18	16	12	9	9	12	13	490	general machine
tools	5	15	8	7	15	14	11	12	12	7	11	7	13	16	9	11	9	4	12	8	11	13	3	12	245	tools
conveying machine	26	23	20	20	21	26	16	16	14	10	12	13	14	3	11	9	13	14	10	15	21	5	14	10	356	conveying machine
human power machine, tools	3	14	3	5	13	9	8	14	11	5	5	8	10	7	11	7	4	10	8	9	5	13	6	9	197	human power machine, tools
no causal agent	4	3	3	5	5	5	4	4	4	3	7	2	2	7	7	2	3	9	5	2	8	7	10	9	120	no causal agent
load	5	11	8	11	11	8	11	10	14	7	4	10	4	6	8	3	2	5	3	3	4	4	10	5	167	load
natural environment			3	5	2	1	2		1	3	1		2	5	1	3	1	2	3	4	2	2	1	3	47	natural environment
metal manufacturing machine	12	5	2	7	5	8	6	4	4	6	4	3	2	2	2		3	2	1	1	2	2	1	2	86	metal manufacturing machine
other equipments,	1	3	5	3	5	2	5	3	5	4	5	3	4	1	1	4	2	2	4	2	1	2	3	1	71	other equipments,

facilities																										facilities
crane	2	4	4	1	3	1	2	2	2	3	1	3	4		4		1	1		1	5	1		1	46	crane
power transmission mechanism	4	3	4		2	2	1	1	2	1	3	1	3	3	4	1	2	1	1	1	1	2	1	1	45	power transmission mechanism
other causal agent	6	6	2	1		1				5	2	1			1		1		2	3	1		3	1	37	other causal agent
kiln, caldron			2	2	3	1	3	1	1	1	1	3	1	1	1		6	1	1	1	1	1		1	33	kiln, caldron
electric equipment					1	2	1						1	1	1					2				1	10	electric equipment
hazards, harmful substances	3	2	7	3	2	2	1	1	3	1	2	2	3			4	3	2	2	1	1	1	1		47	hazards, harmful substances
vehicle	1		2	2	1	4		3	1	4		2		2	2	3	2		2	1		1	1		34	vehicle
woodworking machine	1	4	2									1				2				1			2		13	woodworking machine
welding equipment		2					1									1					1	1	1		7	welding equipment
construction machine	1		1						1				1												4	construction machine
engine		1	1												1										3	engine
pressure vessel		1							2																3	pressure vessel
unclassifiable	1																1		1						3	unclassifiable
chemical facilities				1																					1	chemical facilities

printingroll machine)				4		1	3	5	5	1	3	2	1	4	2	1	3	1						36	printingroll machine)
other temporary buildings, establishments			2	2		4	2	2	1	2	1	1	2	2	3	1	2	1	2			1		31	other temporary buildings, establishments
crane			3	3		1	1	2	2		2	4				1	1			4	1			25	crane
cars, bus, motorcycle			2	1			3	1	4		1		1	2	3	2		2	1		1	1		25	cars, bus, motorcycle
harmful substance			1	2			1	3	1	1	1	2				2	1	2	1					18	harmful substance
other powered conveying machines			1			1					2	2						1	2	3		3		15	other powered conveying machines
mixer, grinder			2	1		2	1				1		1	1	1		1	1			1	1		14	mixer, grinder
other hazards, harmful substances			5								1					3	1	1			1	1		13	other hazards, harmful substances
grinding machine, buffing machine			1	4		2	1				1			1							1			12	grinding machine, buffing machine
power press			1	1		1		2	1							3								9	power press
scaffolding			1	4				1	1							1						1		9	scaffolding
lathe									1		1	1	1				1	1	1	1				8	lathe
stone, sand, substance															1	1						1		8	stone, sand, substance
machine/equipment as load			1				1	1	2						2		1							8	machine/equipment as load
circular sawing machine			1									1				2							2	6	circular sawing machine

printing machine					1							1		1			1				1		1			6	printing machine	
inflammable substance			1					1					1	1			1								1		6	inflammable substance
injection molding machine								1								1			1	1					1		5	injection molding machine
elevator, lift			1					1							2												5	elevator, lift
other powered crane										1					2							1	1				5	other powered crane
drill press, milling machine									1	1			1												1		4	drill press, milling machine
shearing machine								1	1			1	1														4	shearing machine
gas welding equipment								1								1								1		1	4	gas welding equipment
slinging tool									1				1											1			4	slinging tool
roof, beam, haze, crossbeam, principal rafter															1										1	1	4	roof, beam, haze, crossbeam, principal rafter
lumber, bamboo									1	1					1										1		4	lumber, bamboo
industrial robot			1												1	1											3	industrial robot
other electrical equipment																									1		3	other electrical equipment
engine			1												1												2	engine
other vehicles													1		1												2	other vehicles
electric power facilities					1																						2	electric power facilities

water				1						1												2	water	
unclassifiable														1	1								2	unclassifiable
wood planer machine			1																				1	wood planer machine
other woodworking machines																							1	other woodworking machines
leveling, transporting or loading machine											1												1	leveling, transporting or loading machine
excavating machine																							1	excavating machine
other construction machines			1																				1	other construction machines
centrifugal machine				1																			1	centrifugal machine
boiler																							1	boiler
pressure vessel																							1	pressure vessel
arc welding equipment																							1	arc welding equipment
industrial dryer																							1	industrial dryer
other kiln, caldron																							1	other kiln, caldron
natural ground, rock																							1	natural ground, rock
standing tree																							1	standing tree
band sawing machine																								band sawing machine

derrick crane																									derrick crane	
cargo lifting appliance																									cargo lifting appliance	
gondola																									gondola	
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway	
simple skyline yarding equipment																									simple skyline yarding equipment	
railway equipment																									railway equipment	
straddle carrier																									straddle carrier	
rough terrain hauler																									rough terrain hauler	
railway vehicle																									railway vehicle	
other pressure vessels																									other pressure vessels	
chemical facilities																									chemical facilities	
other welding equipment																									other welding equipment	
human power machine																									human power machine	
timbering																									timbering	
explosive substance																									explosive substance	
inflammable gas																									inflammable gas	
radiation																									radiation	
total	182	183	171	151	182	182	150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	103	3,140	total

Transition of workers' age groups of fatal and non-fatal accidents in 010902 glass 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
40-49	40	31	31	27	33	34	26	28	31	32	24	27	31	31	33	27	32	26	23	34	25	22	28	34	710	40-49
50-59	46	46	39	35	40	38	39	29	40	26	22	20	24	26	22	20	25	23	22	19	25	26	29	26	707	50-59
60 years old or more	12	11	19	13	7	16	19	12	15	13	10	16	17	10	10	10	17	14	13	14	18	9	18	15	328	60 years old or more
30-39	34	45	36	38	46	53	35	39	38	37	33	24	27	26	27	37	17	18	29	23	18	27	24	12	743	30-39
20-29	44	46	41	32	52	35	27	39	23	26	12	22	26	20	23	5	14	14	21	10	13	13	13	12	583	20-29
19 years old or less	6	4	5	6	4	6	4	4	4	2	2	1	1	4	3		3	1	1		3		1	4	69	19 years old or less
total	182	183	171	151	182	182	150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	103	3,140	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 010902 glass 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
100-299	36	37	31	21	32	35	19	33	28	28	29	35	28	21	26	21	29	19	31	40	38	32	32	26	707	100-299
50-99	31	43	32	21	39	39	41	20	31	32	19	17	39	31	26	21	16	28	28	10	19	18	22	22	645	50-99
30-49	26	14	15	15	19	24	21	28	23	19	14	18	19	20	15	16	19	12	12	18	18	13	13	17	428	30-49
300 workers or more	21	24	25	21	19	13	10	18	16	17	9	17	11	16	18	17	14	12	11	6	12	11	12	14	364	300 workers or more
10-29	48	41	49	43	40	39	37	28	31	21	22	12	18	20	23	15	21	20	17	18	10	13	23	13	622	10-29
9 workers or less	20	24	19	30	33	32	22	24	22	19	10	11	11	9	10	9	9	5	10	8	5	10	11	11	374	9 workers or less
total	182	183	171	151	182	182	150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	103	3,140	total

Transition of occurred months of fatal and non-fatal accidents in 010902 glass 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
August	18	19	11	13	21	14	16	18	11	11	8	9	11	12	10	6	11	8	10	7	7	6	13	13	283	August
January	9	13	15	5	8	17	11	17	8	20	7	15	9	6	6	8	16	9	13	11	7	7	12	12	261	January
November	15	13	17	19	11	15	12	10	11	6	6	8	15	5	10	2	12	10	6	7	6	6	11	12	245	November
February	11	9	9	13	10	10	9	11	18	9	10	10	11	13	13	9	4	6	8	7	8	11	4	11	234	February
April	17	12	6	8	14	13	15	13	8	9	5	5	12	10	8	6	11	6	5	6	9	4	8	10	220	April
December	14	15	8	12	12	12	9	13	13	10	7	4	14	11	7	10	6	10	9	7	8	8	10	9	238	December
June	14	20	14	13	19	30	7	9	20	10	9	11	14	11	12	11	7	7	9	7	10	7	6	7	284	June
March	18	19	22	9	15	12	20	12	7	3	11	6	10	10	11	8	6	4	15	16	9	9	14	7	273	March
September	17	17	22	18	20	19	14	10	8	12	8	8	6	11	9	16	7	8	7	6	14	10	5	6	278	September
October	14	13	13	9	15	13	14	14	15	11	8	11	5	12	10	7	9	13	7	11	7	5	11	6	253	October
July	17	17	24	19	22	15	14	15	19	17	13	12	11	10	8	9	11	7	9	8	10	13	9	5	314	July
May	18	16	10	13	15	12	9	9	13	18	11	11	8	6	14	7	8	8	11	7	7	11	10	5	257	May
total	182	183	171	151	182	182	150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	103	3,140	total

Transition of prefectures of fatal and non-fatal accidents in 010902 glass 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
Aichi	6	6	8		6		7	5	8	5	3	5	13	6	4	9	11	9	7	8	7	5	5	10	153	Aichi
Tokyo	7	14	11		12		10	7	3	9	7	8	9	8	4	3	7	6	9	9	9	3	9	9	173	Tokyo
Hyogo	10	13	5		10		13	8	7	8	8	4	2	2	10	5	5	2	6	9	4	7	6	8	152	Hyogo
Fukushima	6	6	2		6		3	6	1	6	5	2	4	3	3	5	4	4	5	3	3	9	9	8	103	Fukushima
Shiga	12	8	14		8		10	11	16	3	4	16	7	17	13	10	14	7	8	5	12	6	4	7	212	Shiga
Chiba	8	7	10		13		3	12	9	7	6	8	14	8	8	7	8	12	10	8	8	7	7	7	187	Chiba
Ibaraki	6	5	13		3		3	3	9	6	5	7	5	3	3	6	2	3	4	6	6	5	3	6	112	Ibaraki

Toyama	4	8			3		7	9	5	1	2	1	11	6	7	5	7	5	5	2	6	4	6	6	110	Toyama	
Osaka	19	25	12		19		9	7	8	12	14	9	15	10	3	3	6	4	12	2	4	6	2	5	206	Osaka	
Mie	10	13	9		13		12	9	13	10	4	1	6	10	10	9	6	4	6	5	4	2	8	4	168	Mie	
Saitama	12	10	11		12		5	5	8	3	3	9	6	3	1	5	5	5	8	7	11	4	14	4	151	Saitama	
Fukuoka	9	14	8		3		7	9	4	6	3		2	5	3	1	4	3	2	4	1	3	3	4	98	Fukuoka	
Kanagawa	12	17	14		18		20	17	14	14	8	12	7	9	7	14	8	5	7	2	3	5	5	3	221	Kanagawa	
Gunma	5	1	4		4		4	4	4	2	1	3	2	1	6	1	1	1			4	1		3	52	Gunma	
Yamagata	4	2	7		1			2	2	2			2	3	5		1	2	2	4	1	2	3	3	48	Yamagata	
Saga	1	3	1		2		1	2				3		3	2	1	1	2	2	2	1	1	2	3	33	Saga	
Shizuoka	6	6	10		7		3	5	3	9	1	4	1	5	4	3	1	1	2	1	6	2	4	2	86	Shizuoka	
Hokkaido	3		7		3		2	2	3	1	2		1	2	1	1		1		3		2		2	36	Hokkaido	
Okayama			1		1		1	1		3		2		1		1				3	2	4		2	22	Okayama	
Miyazaki	3	1								2	1	1				1		1	1		1	3	5	2	22	Miyazaki	
Hiroshima		1					2		1	2									1	1	2		1	2	13	Hiroshima	
Iwate	3	1	1		2		4	2		1				1	1	1	2							1	1	21	Iwate
Yamanashi			2		1			1		3			1	1	2		1					1		1	14	Yamanashi	
Kagoshima	2	1			2					1	2	1	2											1	12	Kagoshima	
Gifu	6	4	2		8		6	5	8	5	3	4	3	3	3	1	3	5	2	4	2	5	1		83	Gifu	
Kyoto	5	7	3		6		2	2	3	2	4		1	2	4	1	1	2	2		2	2	1		52	Kyoto	
Miyagi	6		4		4		3	8	5	3	4		1	1	2	2		3	1	1			1		49	Miyagi	
Fukui	2	1	5		4		3	3	4	4	2	2			1		1				1				33	Fukui	
Niigata	2	2	1				1	2	3		2		1	2		1	1	2	1	3		1	1		26	Niigata	
Tochigi	5	2	1		1		1	1	2		1		3		1			1	2	1		1	2		25	Tochigi	

Nagano	3	1	1					1	1	4		3	2		1	1	2		1	2		1	1		25	Nagano
Akita										1	1	1	2		2	1	1	2	2	3	1	2	2		21	Akita
Yamaguchi	1	2	1		2		3		3		1					1		1			1			16	Yamaguchi	
Tokushima	2		1		2				1		2		1		1			1		1		3		15	Tokushima	
Kumamoto	1	1			1		1		1		3		1				2		1			2		14	Kumamoto	
Nara					1		1	1	1			1		1	2									8	Nara	
Wakayama								1	1	1		1			1		1						1	7	Wakayama	
Shimane		1	2										1				2						1	7	Shimane	
Okinawa					2		1				1			1	2									7	Okinawa	
Nagasaki	1				1							1			1			1						5	Nagasaki	
Ishikawa							1					1					1					1		4	Ishikawa	
Kagawa					1											1				1				3	Kagawa	
Aomori							1															1		2	Aomori	
Tottori																										Tottori
Ehime																										Ehime
Kochi																										Kochi
Oita																										Oita
total	182	183	171	151	182	182	150	151	151	136	103	110	126	117	118	99	108	96	109	100	102	97	113	103	3,140	total

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

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