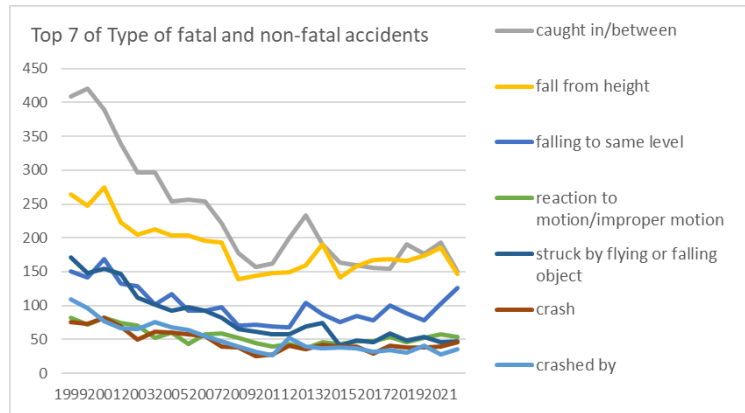
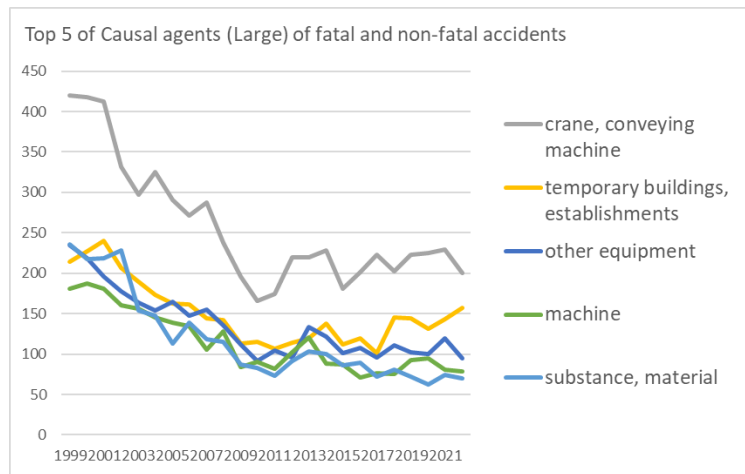


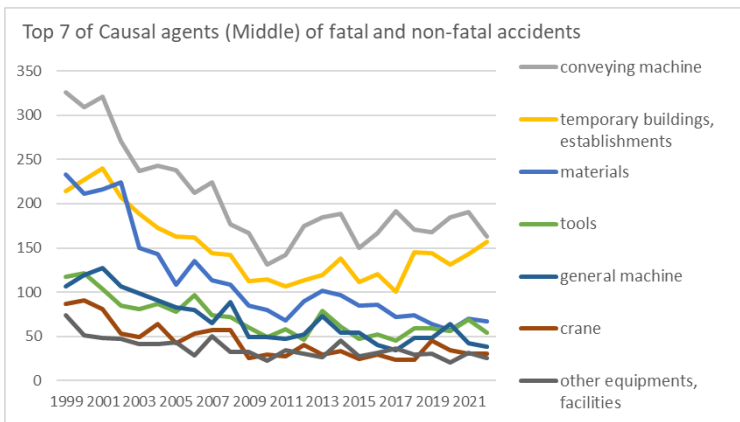
Transition of fatal and non-fatal accidents in 010901 cement products in Japan (1999-2022)



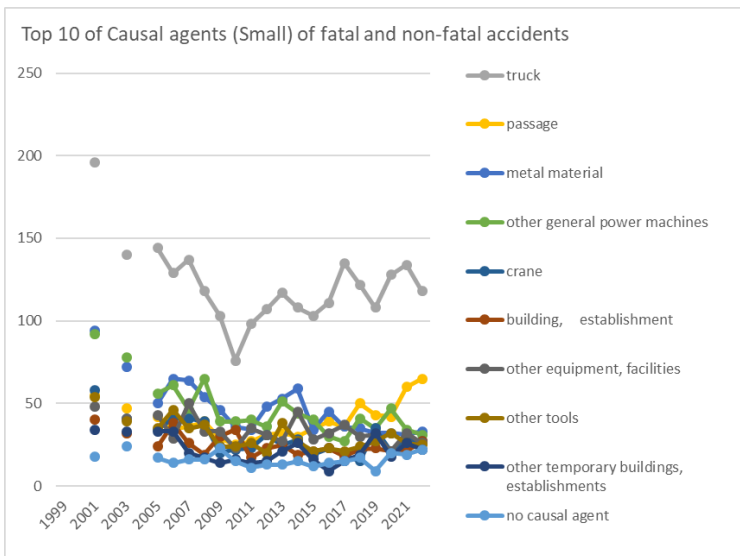
Transition of Top 7 of Type of fatal and non-fatal accidents in 010901 cement products in Japan (1999-2022)



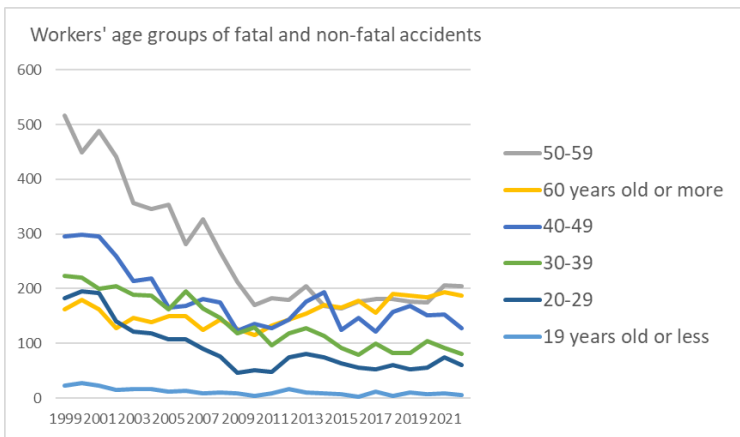
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 010901 cement products in Japan (1999-2022)



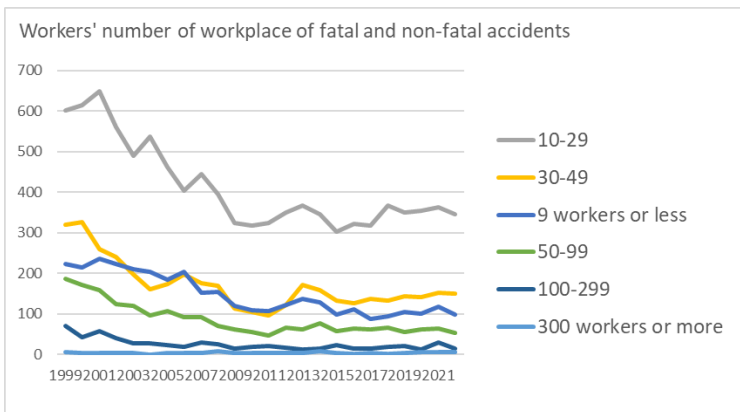
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 010901 cement products in Japan (1999-2022)



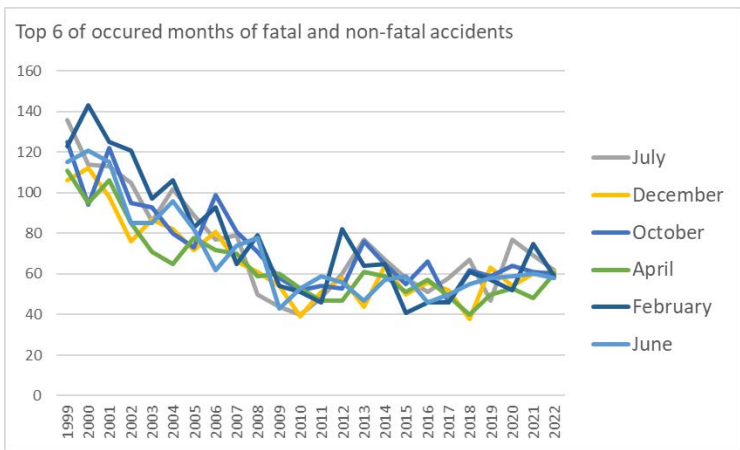
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 010901 cement products in Japan (1999-2022)



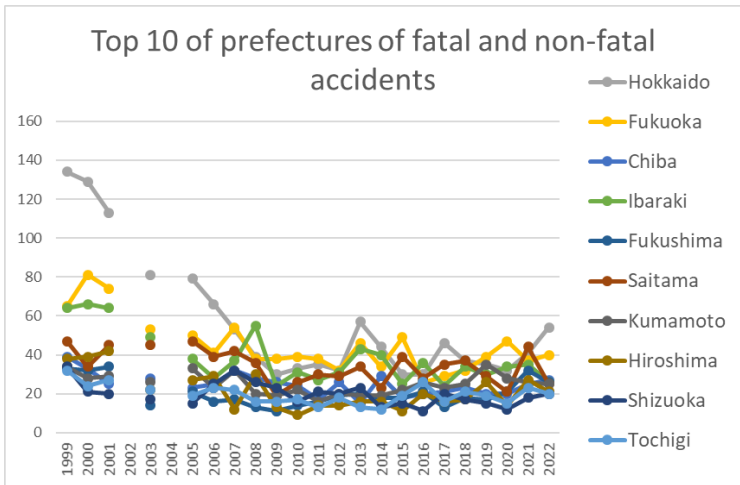
Transition of workers' age groups of fatal and non-fatal accidents in 010901 cement products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 010901 cement products in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 010901 cement products in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 010901 cement products in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 010901 cement 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	409	421	390	339	297	297	254	256	254	221	178	157	162	200	233	190	164	160	156	154	191	177	193	150	5,603	caught in/between
fall from height	264	248	275	223	205	213	204	203	196	193	139	144	148	149	160	191	141	158	167	168	166	174	185	147	4,461	fall from height
																										falling to same

falling to same level	151	141	169	132	129	101	117	92	93	97	71	72	69	68	104	87	76	84	78	100	88	78	103	126	2,426	level
reaction to motion/improper motion	82	72	82	74	70	52	60	43	57	59	52	44	40	43	37	46	43	47	47	54	46	52	57	54	1,313	reaction to motion/improper motion
struck by flying or falling object	171	148	154	147	112	102	93	97	93	82	65	61	58	58	69	74	41	49	46	59	48	53	46	47	1,973	struck by flying or falling object
crash	75	73	82	69	50	61	60	57	55	39	38	25	28	41	35	42	39	40	29	41	38	38	40	46	1,141	crash
crashed by	109	96	77	66	65	75	68	64	55	47	39	32	26	52	40	37	38	37	32	34	30	41	28	35	1,223	crashed by
collapse	61	73	58	51	40	38	32	46	35	36	18	33	21	26	33	20	26	27	25	19	16	21	19	24	798	collapse
cut	35	35	31	37	31	29	24	21	21	26	20	10	13	16	18	15	26	19	16	11	21	18	9	14	516	cut
contact to high/low-temperature	9	15	12	13	9	11	9	6	7	3	5	9	5	6	7	12	7	4	5	9	10	12	7	10	202	contact to high/low-temperature
traffic accident (public road)	25	25	16	17	19	27	18	14	15	4	5	6	10	12	9	11	8	4	9	13	8	5	11	5	296	traffic accident (public road)
others	3	7	2	5	4	7	5	5	6	3		2	5	3	2	1	1	2	4	3	3	3	24	3	103	others
injury to the sole of the foot	2	7	5	8	2	3		4	1	1	1	2	2		1	1		3	1	2	2			3	51	injury to the sole of the foot
contact to harmful substance	3	5	1	1	4	3	4	6	4	5	2	3	5	1	2	1	1	2		6	6	4	3	1	73	contact to harmful substance
unclassifiable	2		1	3	1	2	1	1		2	1	1							2	1	1		1		20	unclassifiable
electric shock	2	1	3		1	2	1	1				3			1		1			1		1	1		19	electric shock
burst	2	1	2				1		2	1			1	1		1	1			1	2		1		17	burst
traffic accident		2	2	1	1								1		1		1	1	1						11	traffic accident

(others)																										(others)
drown		1		1	1	1						1	2		1										10	drown
explosion	1			2	2						1														6	explosion
fire					1	1			1					1		1									6	fire
total	1,406	1,371	1,362	1,189	1,044	1,025	951	916	895	819	635	605	596	676	754	729	615	637	620	677	676	677	728	665	20,268	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 010901 cement 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	420	418	413	332	297	325	291	271	288	238	196	166	174	220	220	228	181	201	223	202	223	225	229	200	6,181	crane, conveying machine
temporary buildings, establishments	214	227	240	207	189	173	163	162	144	142	113	115	107	114	119	138	112	120	101	145	144	131	143	157	3,620	temporary buildings, establishments
other equipment	235	219	196	178	164	154	165	148	155	136	112	92	104	96	133	122	101	108	96	111	102	100	120	95	3,242	other equipment
machine	181	187	181	160	156	145	139	135	105	128	84	90	82	102	121	88	87	71	76	75	93	95	81	79	2,741	machine
substance, material	236	218	219	228	154	148	113	139	118	115	87	83	73	92	103	100	86	89	72	81	72	62	74	70	2,832	substance, material
others	49	36	29	35	33	25	27	17	22	21	26	18	15	15	16	16	17	16	20	20	13	27	44	26	583	others
environment	24	17	21	22	16	19	18	11	16	7	7	24	19	16	22	15	10	13	13	19	12	15	10	25	391	environment
load	47	49	63	27	35	36	35	33	47	32	10	17	22	21	20	22	21	19	19	24	17	22	27	13	678	load
total	1,406	1,371	1,362	1,189	1,044	1,025	951	916	895	819	635	605	596	676	754	729	615	637	620	677	676	677	728	665	20,268	total

metal manufacturing machine	30	18	13	19	20	17	14	14	14	11	10	6	15	16	19	7	8	11	14	6	11	11	13	10	327	manufacturing machine	
vehicle	7	18	11	8	11	18	11	6	7	4	3	5	4	5	5	5	6	4	7	7	10	5	7	6	180	vehicle	
power transmission mechanism	11	3	8	10	10	9	10	11	7	3	6	10	4	7	8	7	8	3	4	7	11	4	6	6	173	power transmission mechanism	
other causal agent	14	14	9	6	7	12	8	3	6	3	3	3	4	2	2	1	5	2	4	2	4	6	24	4	148	other causal agent	
woodworking machine	11	7	7	10	13	9	4	5	4	9	7	2	3	6	1	7	5	5	8	4	5	5	4	4	145	woodworking machine	
hazards, harmful substances	3	7	3	4	4	5	4	4	4	6	2	3	5	2	1	3	1	3		7	8	5	4	3	91	hazards, harmful substances	
electric equipment	3	1	3	2	1	1	3	3			1	3			2	1	1	1				1	1	1	29	electric equipment	
engine																				1	2		1	1	5	engine	
welding equipment	1	1	2	4	2		2	1	1	2	1	1		1		1	1	1		3	2	2	1		30	welding equipment	
unclassifiable	1	3	2	4	2	3	2			2					1				1	1		1	1		24	unclassifiable	
pressure vessel		2	2	2	2	2	3	1	2		1			1		1	1			1					21	pressure vessel	
kiln, caldron	3		2		1		1	1	1						1	1		1		1		1			14	kiln, caldron	
chemical facilities							5			1															6	chemical facilities	
mobile silviculture machine																											mobile silviculture machine

other construction machines			8	6	8	11	4	9	6	6	7	8	6	7	2	5	2	3	2	5	6	4	115	other construction machines
other causal agent			9	7	8	3	6	3	3	3	4	2	2	1	5	2	4	2	4	6	24	4	102	other causal agent
leveling, transporting or loading machine			9	5	7	4	2	5	2	10	5	7	8	3	6	4	6	1	6	1	5	4	100	leveling, transporting or loading machine
circular sawing machine			6	9	2	4	4	5	6	1	2	4	1	7	5	2	5	3	5	3	2	4	80	circular sawing machine
timbering			12	10	10	4	6	9	5	4	7	9	5	8	6	4	2	4	6	7	5	2	125	timbering
scaffolding			14	10	6	7	9	8	6	3	2	4	4	8	3	5	1	8	2	6	2	2	110	scaffolding
mobile crane			12	4	6	6	12	10	3	4	4	4	2	1	6	5	5	7	5	7	2	2	107	mobile crane
other powered crane			11	4	2	6	3	7	2	3		4	3	4		2		1	3	5		2	62	other powered crane
roof, beam, haze, crossbeam, principal rafter			6	4	2	2	2	4	4	3	4	3	2	3	1	3	3	3	2	2	2	2	57	roof, beam, haze, crossbeam, principal rafter
opening			9	2	4	5	2	3	1	5	2	4	2	2		2		3	1	2	5	2	56	opening
human power machine			1	2		1				1	2		1	1	1	1		1	1	2	1	2	18	human power machine
natural ground, rock			2	4	5	1	8	3	1	3	1	2	2	1	3	3		2	1	1		1	44	natural ground, rock
other hazards, harmful substances			1	2	1	2	1	5		2	4	1		1		1		4	3	3	4	1	36	other hazards, harmful substances
loader				2	1	2	3	1	2	3	1	1	1	1	1	2	5		2	2	4	1	35	loader
roll machine (except printingroll)			4			2	4	1	2		1	1		2		1	1	1	3	1	1	1	27	roll machine (except printingroll)

machine)																										machine)	
harmful substance			1		1		2	1	2	1	2	1	1		1	1	1	2		2	3	1		1	24	harmful substance	
centrifugal machine			1		4		2	2		1		1	1	2		2		1		1	1		1	20	centrifugal machine		
other vehicles					3					1		1		1	2	1	1	2	1	4	2		1	20	other vehicles		
injection molding machine			1		1		2		1	1		1	1		4	1					2		2	1	18	injection molding machine	
demolition machine							2							1				1	3	1		1	2	1	12	demolition machine	
transmission			2					3				1			1			1				1	1	10	transmission		
inflammable substance			1		1		1	1	1					1						1	2			1	10	inflammable substance	
engine																				1	2		1	1	5	engine	
hardening machine			1					1																1	3	hardening machine	
vehicle for high lift work											1	1												1	3	vehicle for high lift work	
human power hauling equipment			7		7		6	2	2	6	3	2	3	3	6	4	6	4	2	2		8	2		75	human power hauling equipment	
machine/equipment as load			2		5		4	5	6	2	1	1	1	2	1	4	4	3	1	1		4	1		48	machine/equipment as load	
railway equipment			5		3		5	5	3	2	1	2		2	2	1	1	1	1	2	5	1	1		43	railway equipment	
power press			2		3		2	1	1				1	2	4		1			1	1				19	power press	
other woodworking machines					2			1		1	1			2					3	2	1		2	1		16	other woodworking machines
human power cranes					1		2		2	1		1	1		2						1		2		13	human power cranes	
unclassifiable			2		2		2			2					1					1	1		1	1		13	unclassifiable

elevator, lift									1	1	1	1	1		1			1	2	2	1		12	elevator, lift
arc welding equipment						2	1		1	1	1		1		1		1		2	1			12	arc welding equipment
other welding equipment			2		1				1						1			1	1	1	1		9	other welding equipment
standing tree					1			1		1	1		1		1					2	1		9	standing tree
other electrical equipment					1		3				2			1	1								8	other electrical equipment
water			1		1		1	1				1		1		1			1				8	water
pressure vessel			1		1		2		1		1				1								7	pressure vessel
other pressure vessels					1		1	1	1				1		1				1				7	other pressure vessels
drill press, milling machine												2							1			3	6	drill press, milling machine
chemical facilities						5			1														6	chemical facilities
abnormal environment			1						1				1	1	1						1		6	abnormal environment
shearing machine					2		1	1	1														5	shearing machine
industrial robot						1		3							1								5	industrial robot
rough terrain hauler							1	1		2					1								5	rough terrain hauler
kiln, caldron			1											1	1		1				1		5	kiln, caldron
wood planer machine					1				1			1										1	4	wood planer machine
chain saw						2			1								1						4	chain saw
industrial dryer			1		1		1										1						4	industrial dryer

June	115	121	115	85	85	96	82	62	74	78	43	53	59	56	47	57	59	46	50	55	58	59	60	58	1,673	June
August	103	109	113	83	91	83	89	65	70	67	49	56	59	61	50	56	52	65	61	47	53	69	61	57	1,669	August
January	109	117	131	111	91	92	63	75	87	81	58	66	68	65	60	76	51	56	63	84	61	54	73	54	1,846	January
September	135	119	113	101	107	80	77	68	64	71	55	45	47	49	67	63	52	61	53	59	58	38	39	52	1,673	September
November	125	121	96	112	81	85	95	81	86	66	41	55	42	52	72	50	43	47	48	55	56	52	51	52	1,664	November
March	111	125	125	114	77	84	77	76	82	77	66	41	47	45	70	52	51	47	43	50	69	52	73	49	1,703	March
May	107	101	105	101	78	70	73	67	71	59	53	54	28	48	66	55	52	39	51	59	45	53	58	41	1,534	May
total	1,406	1,371	1,362	1,189	1,044	1,025	951	916	895	819	635	605	596	676	754	729	615	637	620	677	676	677	728	665	20,268	total

Transition of prefectures of fatal and non-fatal accidents in 010901 cement 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
Hokkaido	134	129	113		81		79	66	53	39	30	33	35	32	57	44	30	30	46	37	35	32	41	54	1,230	Hokkaido
Fukuoka	65	81	74		53		50	41	54	38	38	39	38	32	46	34	49	26	29	32	39	47	37	40	982	Fukuoka
Chiba	39	33	25		28		23	25	32	28	26	24	17	26	15	29	18	20	21	23	20	20	25	27	544	Chiba
Ibaraki	64	66	64		49		38	28	37	55	24	31	27	31	43	40	25	36	24	34	30	34	35	26	841	Ibaraki
Fukushima	33	32	34		14		21	16	17	13	11	14	16	19	20	18	18	21	13	18	17	21	32	26	444	Fukushima
Saitama	47	34	45		45		47	39	42	36	19	26	30	29	34	23	39	28	35	37	29	21	44	25	754	Saitama
Kumamoto	34	28	29		26		33	23	32	20	19	22	16	20	19	19	22	26	23	25	35	28	26	25	550	Kumamoto
Hiroshima	38	39	42		22		27	29	12	30	13	9	14	14	16	16	11	20	16	17	26	14	27	21	473	Hiroshima
Shizuoka	34	21	20		17		15	25	32	26	23	16	21	20	23	13	15	11	20	17	15	12	18	20	434	Shizuoka
Tochigi	32	24	27		22		19	23	22	16	16	17	13	18	13	12	19	26	16	21	19	15	23	20	433	Tochigi
Okayama	33	31	26		25		21	27	25	15	11	12	12	20	22	18	10	11	21	14	19	18	16	20	427	Okayama
Mie	43	42	58		40		35	41	40	23	22	20	20	20	13	27	22	16	14	11	14	15	24	19	579	Mie
Hyogo	47	55	53		42		28	27	35	26	17	12	19	17	21	20	16	23	16	16	17	24	20	19	570	Hyogo

Okinawa	10	12	9		8		4	11	16	7	11	5	7	4	7	11	5	4	9	11	12	13	4	19	199	Okinawa
Aichi	42	51	54		29		28	30	33	41	24	29	12	27	28	30	33	25	25	23	34	28	32	18	676	Aichi
Kanagawa	35	42	30		25		26	25	31	23	20	13	15	12	23	18	10	10	13	13	21	18	17	18	458	Kanagawa
Kagoshima	29	25	47		29		26	32	22	15	18	12	19	22	17	11	17	13	16	17	14	18	18	16	453	Kagoshima
Oita	31	33	26		16		16	14	10	16	14	13	13	12	15	16	9	12	9	16	11	13	15	16	346	Oita
Niigata	22	27	23		18		27	26	27	16	12	24	9	12	27	26	21	15	15	13	21	21	25	15	442	Niigata
Nagano	29	29	23		23		13	18	19	14	8	17	11	19	14	14	11	12	15	11	11	10	12	15	348	Nagano
Miyagi	16	23	21		17		16	9	11	10	3	8	10	16	24	19	11	16	10	17	16	16	9	15	313	Miyagi
Gunma	45	51	36		16		36	24	28	17	24	15	14	21	19	27	17	22	15	20	15	19	21	14	516	Gunma
Nagasaki	24	23	22		16		13	9	11	6	9	5	6	11	15	16	9	13	13	13	12	12	6	13	277	Nagasaki
Ehime	19	31	29		26		14	25	17	17	10	9	8	15	12	10	7	11	11	17	15	15	10	12	340	Ehime
Kagawa	18	17	26		13		13	19	6	12	11	6	13	15	14	11	6	12	10	9	6	15	9	11	272	Kagawa
Miyazaki	30	26	31		14		20	10	15	12	17	10	8	8	9	9	11	7	5	11	10	13	12	10	298	Miyazaki
Fukui	23	16	15		17		15	13	7	12	10	4	16	10	6	13	7	9	9	18	11	10	3	10	254	Fukui
Yamaguchi	19	11	19		21		9	14	17	14	6	11	11	10	7	10	7	13	6	7	11	7	10	10	250	Yamaguchi
Shiga	21	27	22		37		23	23	15	34	9	12	11	8	16	12	15	11	12	12	14	8	9	9	360	Shiga
Kochi	11	34	28		21		12	5	3	14	12	8	8	4	7	5	10	7	6	10	6	12	9	9	241	Kochi
Osaka	26	28	48		26		23	30	32	17	18	14	15	11	16	14	8	18	8	13	8	14	16	8	411	Osaka
Saga	19	18	9		11		12	10	17	11	10	5	10	9	13	6	10	6	2	10	5	7	8	8	216	Saga
Yamanashi	16	16	13		10		8	12	12	7	3	5	8	13	13	14	8	8	9	8	6	4	7	8	208	Yamanashi
Tokyo	23	20	18		11		17	13	12	16	9	6	12	13	10	12	5	9	16	13	10	7	10	7	269	Tokyo
Toyama	18	6	14		11		9	9	8	8	13	9	4	5	4	10	1	6	6	7	7	8	6	7	176	Toyama
Aomori	17	11	7		17		4	12	7	6	6	5	7	8	3	3	6	6	3	10	6	9	5	7	165	Aomori
Gifu	43	29	30		40		28	22	16	21	15	13	9	12	17	21	14	12	14	11	12	16	8	6	409	Gifu

Tokushima	18	19	16		8		6	5	6	6	6	4	3	5	4	6	11	5	13	7	8	5	6	6	173	Tokushima
Iwate	32	16	20		18		17	19	7	14	10	9	4	7	9	15	6	17	10	10	7	3	15	5	270	Iwate
Kyoto	22	21	16		15		17	7	11	6	18	10	12	12	10	8	7	9	6	9	4	6	11	5	242	Kyoto
Ishikawa	15	11	12		7		10	9	7	8	4	3	6	5	5	3	5	5	6	2	4	3	4	5	139	Ishikawa
Wakayama	22	8	22		13		16	9	17	14	7	8	10	19	11	14	10	7	6	12	10	12	13	4	264	Wakayama
Yamagata	18	21	22		11		9	10	1	9	6	8	7	10	10	5	9	11	11	7	10	14	14	4	227	Yamagata
Shimane	15	10	11		12		3	9	9	8	5	10	6	5	5	10	5	2	6	3	5	6	3	4	152	Shimane
Tottori	6	2	6		6		6	5	1	1	3	8	4	4	1	5	3	2	1	5	2	4	6	4	85	Tottori
Akita	14	20	12		6		8	6	5	11	9	8	7	5	14	5	4	3	7	3	10	6	4	3	170	Akita
Nara	15	22	15		12		11	12	6	11	6	4	3	9	7	7	3	5	3	7	7	4	3	2	174	Nara
total	1,406	1,371	1,362	1,189	1,044	1,025	951	916	895	819	635	605	596	676	754	729	615	637	620	677	676	677	728	665	20,268	total

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

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