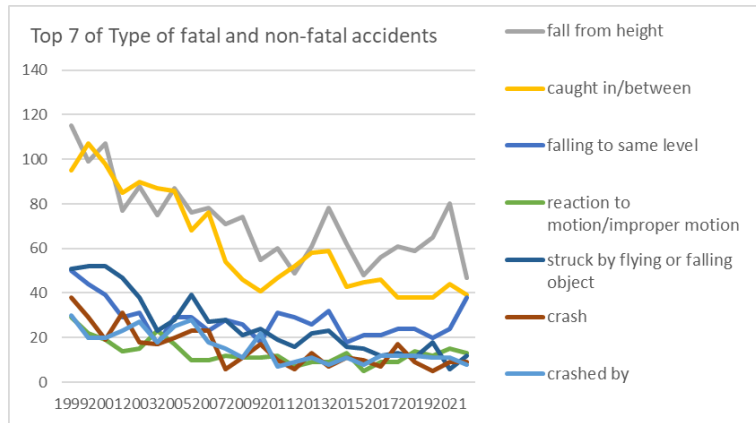
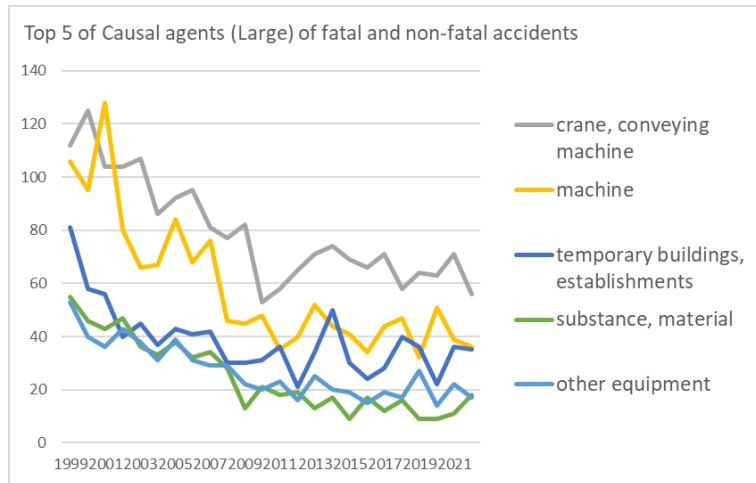


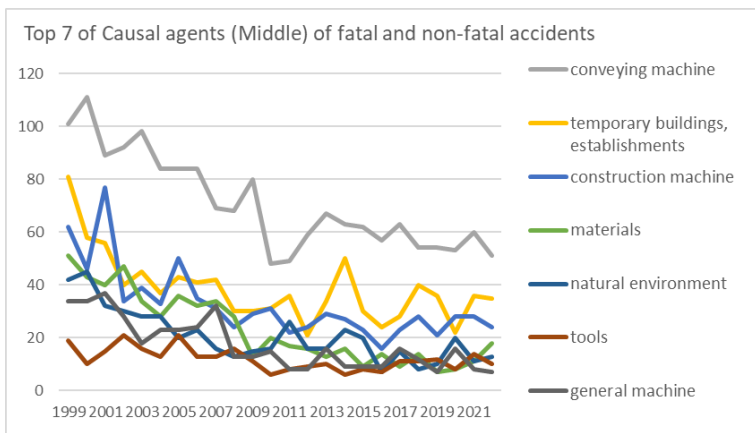
Transition of fatal and non-fatal accidents in 0202 quarrying in Japan (1999-2022)



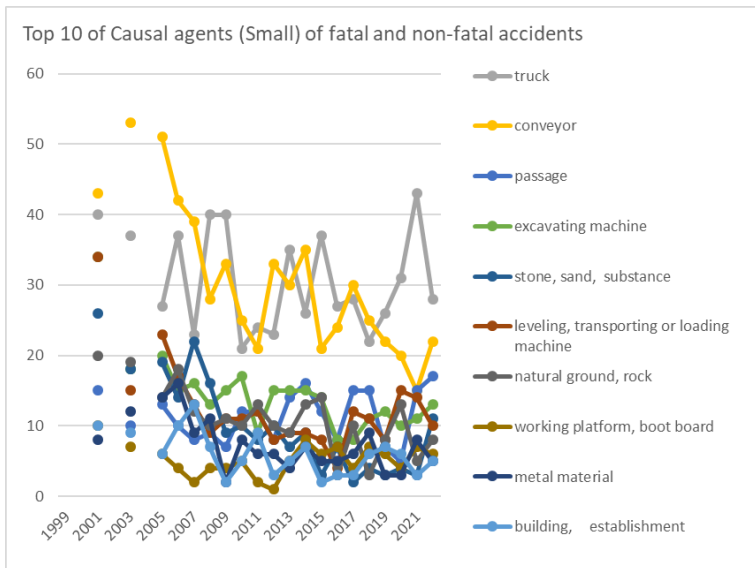
Transition of Top 7 of Type of fatal and non-fatal accidents in 0202 quarrying in Japan (1999-2022)



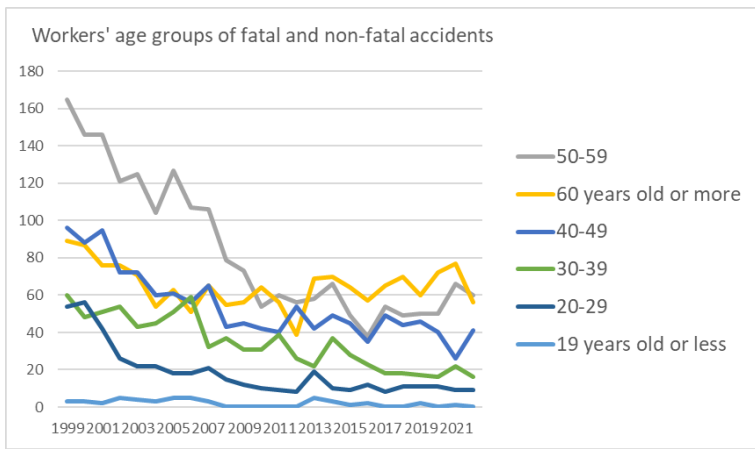
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 0202 quarrying in Japan (1999-2022)



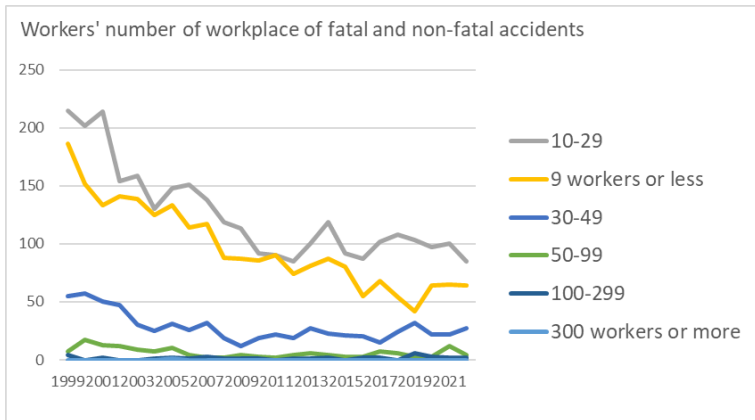
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 0202 quarrying in Japan (1999-2022)



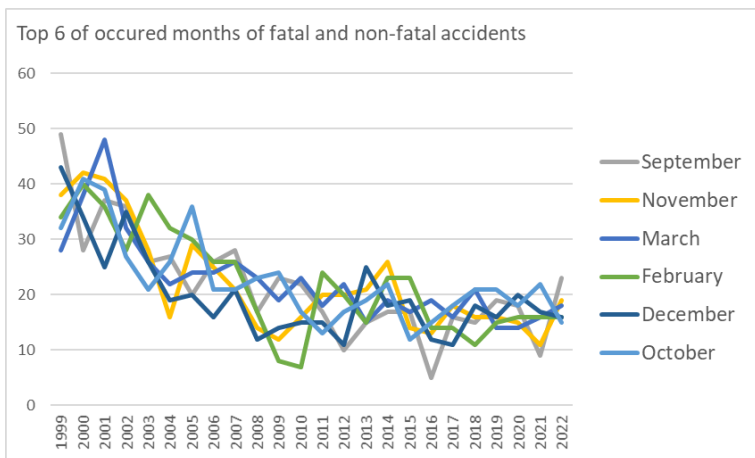
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 0202 quarrying in Japan (1999-2022)



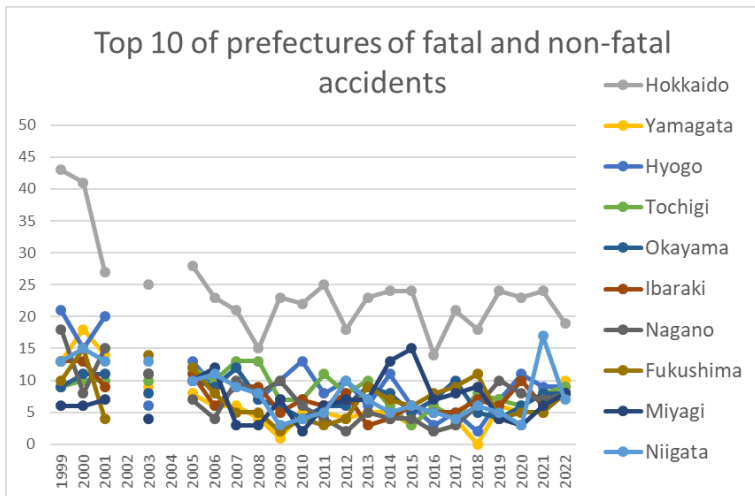
Transition of workers' age groups of fatal and non-fatal accidents in 0202 quarrying in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 0202 quarrying in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 0202 quarrying in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 0202 quarrying in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 0202 quarrying 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
fall from height	115	99	107	77	88	75	87	76	78	71	74	55	60	49	61	78	62	48	56	61	59	65	80	47	1,728	fall from height
caught in/between	95	107	98	85	90	87	86	68	76	54	46	41	47	52	58	59	43	45	46	38	38	38	44	39	1,480	caught in/between

falling to same level	50	44	39	29	31	17	29	29	23	28	26	18	31	29	26	32	18	21	21	24	24	20	24	38	671	falling to same level
reaction to motion/improper motion	29	22	19	14	15	23	17	10	10	12	11	11	12	7	9	9	13	5	9	9	14	12	15	13	320	reaction to motion/improper motion
struck by flying or falling object	51	52	52	47	38	23	28	39	27	28	21	24	19	16	22	23	16	15	12	13	11	18	6	12	613	struck by flying or falling object
crash	38	29	19	31	18	17	20	23	23	6	11	17	10	6	13	7	11	10	7	17	9	5	9	9	365	crash
crashed by	30	20	20	23	27	18	25	28	18	15	11	22	7	9	11	8	11	8	12	12	12	11	11	8	377	crashed by
collapse	20	18	16	18	12	10	14	9	14	6	4	6	6	6	2	5	6	2	8	4	5	4	1	4	200	collapse
cut	6	9	13	16	2	7	3	5	7	5	4	1	1	4	2	5	3	3	8	5	5	6	1	4	125	cut
traffic accident (public road)	8	12	13	7	4	1	4	5	7	3	6		5	2	4	2	5	5	7	3	3	2	5	4	117	traffic accident (public road)
others	2	5		1	2	1	2	1	3	1	2	2	2		1		4	1	2	1			1	2	36	others
contact to harmful substance	2		1		1							1				2			1	1	1	1		1	12	contact to harmful substance
fire		1					1									1	1							1	5	fire
contact to high/low-temperature	16	5	6	3	5	5	7		3		1	2	2		2		1	3	3	1	4	6	2		77	contact to high/low-temperature
explosion	2		4										1	2					1	2					12	explosion
traffic accident (others)	1		1	2		1		1				1		1	1	1	2								12	traffic accident (others)
injury to the sole of	2		1		1		1		2							1			1	1	1				11	injury to the sole

the foot																											of the foot		
burst		2		1	2			1						2											1	2		11	burst
drown		1			1	1		1					1		1	1		1										8	drown
electric shock		2	2			2	1		1																			8	electric shock
unclassifiable			1													1												2	unclassifiable
total	467	428	412	354	337	288	325	296	292	229	217	201	204	183	215	235	196	167	194	192	186	189	201	182	6,190	total			

Transition of Causal agents (Large) of fatal and non-fatal accidents in 0202 quarrying 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	112	125	104	104	107	86	92	95	81	77	82	53	58	65	71	74	69	66	71	58	64	63	71	56	1,904	crane, conveying machine
machine	106	95	128	80	66	67	84	68	76	46	45	48	35	40	52	44	41	34	44	47	32	51	39	36	1,404	machine
temporary buildings, establishments	81	58	56	40	45	37	43	41	42	30	30	31	36	21	34	50	30	24	28	40	36	22	36	35	926	temporary buildings, establishments
substance, material	55	46	43	47	36	33	38	32	34	28	13	21	18	19	13	17	9	17	12	16	9	9	11	18	594	substance, material
other equipment	53	40	36	43	38	31	39	31	29	29	22	20	23	16	25	20	19	15	19	17	27	14	22	17	645	other equipment
environment	42	45	32	30	28	28	20	23	16	13	15	16	26	16	16	23	20	7	15	8	10	20	11	13	493	environment
others	14	12	8	9	12	4	6	5	8	4	7	7	6	6	3	6	7	4	4	5	5	7	8	5	162	others
load	4	7	5	1	5	2	3	1	6	2	3	5	2		1	1	1		1	1	3	3	3	2	62	load
total	467	428	412	354	337	288	325	296	292	229	217	201	204	183	215	235	196	167	194	192	186	189	201	182	6,190	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 0202 quarrying 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
conveying machine	101	111	89	92	98	84	84	84	69	68	80	48	49	59	67	63	62	57	63	54	54	53	60	51	1,700	conveying machine
temporary buildings, establishments	81	58	56	40	45	37	43	41	42	30	30	31	36	21	34	50	30	24	28	40	36	22	36	35	926	temporary buildings, establishments
construction machine	62	46	77	34	39	33	50	35	31	24	29	31	22	24	29	27	23	16	23	28	21	28	28	24	784	construction machine
materials	51	43	40	47	34	28	36	32	34	28	13	20	17	16	13	16	9	14	9	14	7	8	11	18	558	materials
natural environment	42	45	32	30	28	28	20	23	16	13	15	16	26	16	16	23	20	7	15	8	10	20	11	13	493	natural environment
tools	19	10	15	21	16	13	21	13	13	16	11	6	8	9	10	6	8	7	11	11	12	8	14	10	288	tools
general machine	34	34	37	28	18	23	23	24	32	13	13	15	8	8	16	9	9	9	16	12	7	16	8	7	419	general machine
no causal agent	8	10	6	6	12	3	3	4	5	4	7	6	4	5	2	5	5	4	3	5	5	5	7	5	129	no causal agent
power transmission mechanism	9	8	9	7	6	5	8	6	7	6	1	1	3	3	4	4	7	7	3	4	3	6	3	4	124	power transmission mechanism
other equipments, facilities	8	13	6	7	13	8	6	6	7	7	6	7	8	3	8	4	3	2	2	1	8	2	3	3	141	other equipments, facilities

crane	6	6	9	11	3	2	2	6	8	5	2	3	6	3	2	8	4	5	5	1	6	8	4	3	118	crane
human power machine, tools	19	13	13	14	8	7	7	11	7	6	4	5	6	3	6	8	6	6	5	4	7	2	3	2	172	human power machine, tools
vehicle	5	8	6	1	6		6	5	4	4		2	3	3	2	3	3	4	3	3	4	2	7	2	86	vehicle
load	4	7	5	1	5	2	3	1	6	2	3	5	2		1	1	1		1	1	3	3	3	2	62	load
welding equipment	6	1	1	1	1		2	1			1		1		1	1						2	1	2	22	welding equipment
metal manufacturing machine	1	2	2	5	2	4		2	2	3	1		1	2	3	1	1	1	1	1				1	36	metal manufacturing machine
hazards, harmful substances	4	3	3		2	5	2					1	1	3		1		3	3	2	2	1			36	hazards, harmful substances
woodworking machine		5	3	5	1	2	2		2		1	1	1	1		3	1	1		1	1	1			32	woodworking machine
other causal agent	5	2	1	2		1	3	1	3				2	1	1		2		1			2	1		28	other causal agent
electric equipment		3	1			3	1		1			1		1		1			1				1		14	electric equipment
engine				1			1	1	2					2						1					8	engine
unclassifiable	1		1	1								1				1									5	unclassifiable
pressure vessel							1					1					1			1					4	pressure vessel
kiln, caldron	1								1								1								3	kiln, caldron
mobile silviculture machine																			1						1	mobile silviculture machine

temperature environment			2		3		1					1	1		1	1			1		3	1		15	temperature environment	
other vehicles			2				1			2		1		1	1		2			1		1	1		13	other vehicles
circular sawing machine			1		1		1									1	1	1		1	1			9	circular sawing machine	
explosive substance					1		2						1	1					2	1				8	explosive substance	
other hazards, harmful substances			1													1		3	1	1	1			8	other hazards, harmful substances	
engine							1	1	2						2					1				7	engine	
chain saw			2				1		1					1		1						1		7	chain saw	
water								1					2		1			1		1			1	7	water	
foundation work machine					1		2								1								1	5	foundation work machine	
electric power facilities			1				1		1				1						1					5	electric power facilities	
other woodworking machines										1			1	1								1		4	other woodworking machines	
drill press, milling machine										1	1											1	1	4	drill press, milling machine	
other metal manufacturing machines										1	1					1	1							4	other metal manufacturing machines	
human power machine			1												1							1		4	human power machine	
pressure vessel							1									1				1				3	pressure vessel	

human power hauling equipment						1														2				3	human power hauling equipment
inflammable substance			1																	1	1			3	inflammable substance
harmful substance			1		1						1													3	harmful substance
unclassifiable			1								1				1									3	unclassifiable
lathe					1																			2	lathe
rough terrain hauler																				1	1			2	rough terrain hauler
kiln, caldron																								2	kiln, caldron
transmission																								2	transmission
inflammable gas																								2	inflammable gas
abnormal environment																								2	abnormal environment
hardening machine					1																			1	hardening machine
forging pressure hammer																								1	forging pressure hammer
centrifugal machine																								1	centrifugal machine
roll machine (except printingroll machine)																								1	roll machine (except printingroll machine)
food manufacturing machine																								1	food manufacturing machine
industrial robot																								1	industrial robot
felling machine																								1	felling machine

total	467	428	412	354	337	288	325	296	292	229	217	201	204	183	215	235	196	167	194	192	186	189	201	182	6,190	total
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Transition of workers' age groups of fatal and non-fatal accidents in 0202 quarrying 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	165	146	146	121	125	104	127	107	106	79	73	54	60	56	58	66	49	38	54	49	50	50	66	60	2,009	50-59
60 years old or more	89	87	76	76	71	54	63	51	65	55	56	64	56	39	69	70	64	57	65	70	60	72	77	56	1,562	60 years old or more
40-49	96	88	95	72	72	60	61	56	65	43	45	42	40	54	42	49	45	35	49	44	46	40	26	41	1,306	40-49
30-39	60	48	51	54	43	45	51	59	32	37	31	31	39	26	22	37	28	23	18	18	17	16	22	16	824	30-39
20-29	54	56	42	26	22	22	18	18	21	15	12	10	9	8	19	10	9	12	8	11	11	11	9	9	442	20-29
19 years old or less	3	3	2	5	4	3	5	5	3						5	3	1	2			2		1		47	19 years old or less
total	467	428	412	354	337	288	325	296	292	229	217	201	204	183	215	235	196	167	194	192	186	189	201	182	6,190	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 0202 quarrying 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	215	202	214	154	159	130	148	151	138	119	113	92	90	85	100	119	92	87	102	108	103	97	100	85	3,003	10-29
9 workers or less	186	152	133	141	139	125	133	114	117	88	87	86	90	74	81	87	80	55	68	54	42	64	65	64	2,325	9 workers or less
30-49	55	57	50	47	30	25	31	26	32	19	12	19	22	19	27	23	21	20	15	24	32	22	22	27	677	30-49
50-99	7	17	13	12	9	7	10	4	2	2	4	3	2	4	6	4	3	3	7	6	3	3	12	4	147	50-99
100-299	4		2			1	2	1	3	1	1	1		1	1	2		2	2		6	3	2	2	37	100-299
300 workers or more							1																		1	300 workers or more
total	467	428	412	354	337	288	325	296	292	229	217	201	204	183	215	235	196	167	194	192	186	189	201	182	6,190	total

Transition of occurred months of fatal and non-fatal accidents in 0202 quarrying 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
September	49	28	37	36	26	27	20	26	28	17	23	22	17	10	15	17	17	5	16	15	19	18	9	23	520	September
November	38	42	41	37	28	16	29	25	21	14	12	16	20	20	21	26	14	13	18	16	16	15	11	19	528	November
March	28	38	48	32	26	22	24	24	26	23	19	23	18	22	15	19	17	19	16	21	14	14	16	18	542	March
February	34	40	36	28	38	32	30	26	26	17	8	7	24	20	15	23	23	14	14	11	15	16	16	16	529	February
December	43	34	25	35	26	19	20	16	21	12	14	15	15	11	25	18	19	12	11	18	16	20	17	16	478	December
October	32	41	39	27	21	26	36	21	21	23	24	17	13	17	19	22	12	15	18	21	21	18	22	15	541	October
May	42	34	30	24	35	20	23	26	23	21	15	19	8	13	23	14	19	11	19	15	11	11	15	14	485	May
July	48	36	33	19	26	24	31	23	26	22	23	20	13	14	15	15	15	21	18	14	18	14	19	13	520	July
January	34	29	38	23	26	29	21	20	26	17	23	15	17	14	16	15	13	14	12	16	19	14	18	13	482	January
June	45	35	29	34	24	26	30	29	18	21	24	13	32	14	17	24	18	17	18	21	16	14	24	12	555	June
April	38	35	31	28	27	22	29	23	30	25	14	15	17	14	17	26	10	14	19	11	11	21	18	12	507	April
August	36	36	25	31	34	25	32	37	26	17	18	19	10	14	17	16	19	12	15	13	10	14	16	11	503	August
total	467	428	412	354	337	288	325	296	292	229	217	201	204	183	215	235	196	167	194	192	186	189	201	182	6,190	total

Transition of prefectures of fatal and non-fatal accidents in 0202 quarrying 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	43	41	27		25		28	23	21	15	23	22	25	18	23	24	24	14	21	18	24	23	24	19	525	Hokkaido
Yamagata	13	18	14		9		8	6	6	4	1	5	5	4	5	5	3	6	4		6	5	5	10	142	Yamagata
Hyogo	21	15	20		6		13	9	12	7	10	13	8	10	6	11	6	3	5	2	7	11	9	9	213	Hyogo
Tochigi	9	10	10		10		12	10	13	13	7	7	11	8	10	6	3	6	4	8	7	6	8	9	187	Tochigi
Okayama	9	11	11		8		10	9	12	7	6	4	6	6	9	8	5	7	10	5	4	6	8	8	169	Okayama
Ibaraki	13	13	9		11		11	6	9	9	5	7	6	8	3	4	6	5	5	7	6	10	6	8	167	Ibaraki

Yamaguchi	5	7	7		6		3	8	4	1	4	5	1	3	3	5	5	3	1	2	1	3	3	2	82	Yamaguchi
Miyazaki	6	3	11		1		3	6	4	3	4	6	2	1	3	3	4		4	1	2	2	5	2	76	Miyazaki
Saitama	6	9	1		2		3	1	5	1	1	4	2	1	1	1		1	3	3	1		1	2	49	Saitama
Kochi	7	1	6		1		3	2	4	2	2	2	1	1		1		1	1	1	3	2		2	43	Kochi
Wakayama	4	4	4		2		2	2	2	1	1		2	1	2	1	2	3	1	1	1	2	2	2	42	Wakayama
Shiga	2	3	5		5		2	3	2	1	2	2	3		2		2	1	1		1	2		2	41	Shiga
Nara	1	1			2		2	4	3	1	1		2	2	2	1	4	3			4	1		2	36	Nara
Aomori	8	5	10		10		5	3	3	4	5	5	4	3	2	3	1	3	2	1	4	2	4	1	88	Aomori
Osaka	5	3	7		2		3		4	4	1	3	3	3	1		5	3	6	2	2	3	1	1	62	Osaka
Tokushima	1	7	3		3		1	4	2	1	4	1	1	2	1	3	1	1	5	2	3	3	2	1	52	Tokushima
Tottori	3	4	2		5		4	1	2	1	1	2	1		1	1		2	1	2		1		1	35	Tottori
Kagawa	18	7	9		8		11	7	7	7	5	3		1	2	4	2	6	4	3	4	3	1		112	Kagawa
Akita	9	11	6		7		6	8	4		2	3	3	3	5	6	3	2	2	5	6	2	3		96	Akita
Oita	9	6	4		5		8	8	5	6	2	3	3	1	3	6	4	5	1	2	2	2	2		87	Oita
Gunma	9	8	10		7		3	3	4	6	4	2	3	2	4	1		2	3	2	1	1	1		76	Gunma
Tokyo	8	8	4		2		3	4	5	1	3	1	3	4	2	2	2	1	2	3		2	2		62	Tokyo
Ishikawa	5	2	6		7		6	1	1	1	3	1	4	1	4	2	3	1	3		1	2	2		56	Ishikawa
Okinawa			1				2								1	1			1	1			1		8	Okinawa
total	467	428	412	354	337	288	325	296	292	229	217	201	204	183	215	235	196	167	194	192	186	189	201	182	6,190	total

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