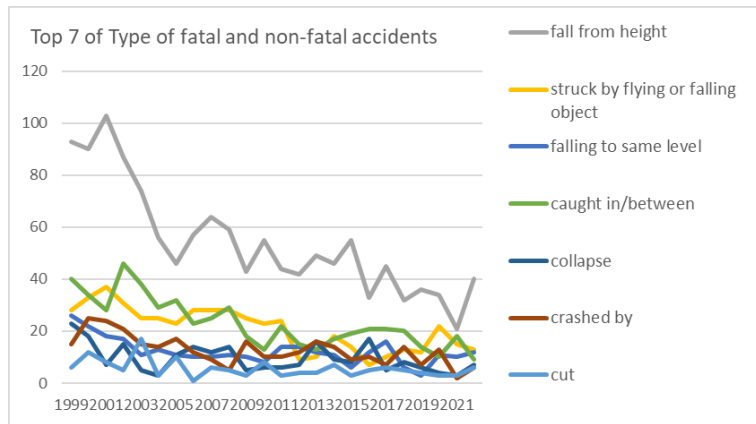
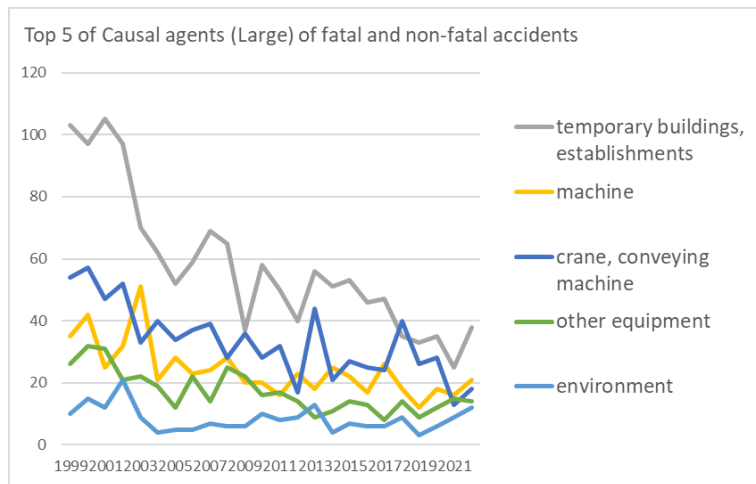


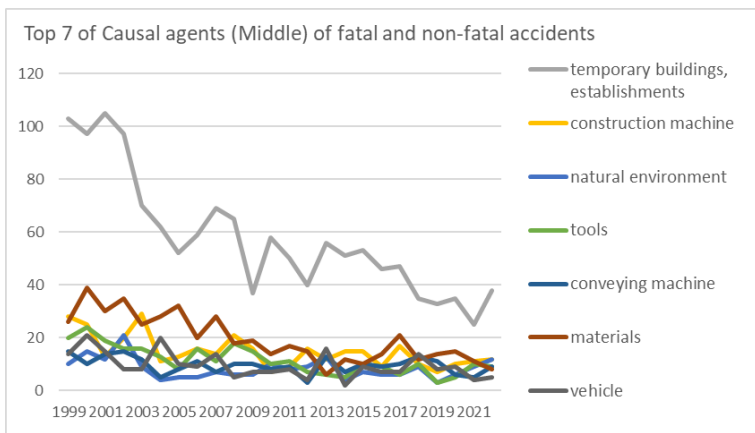
Transition of fatal and non-fatal accidents in 030105 bridge construction work in Japan (1999-2022)



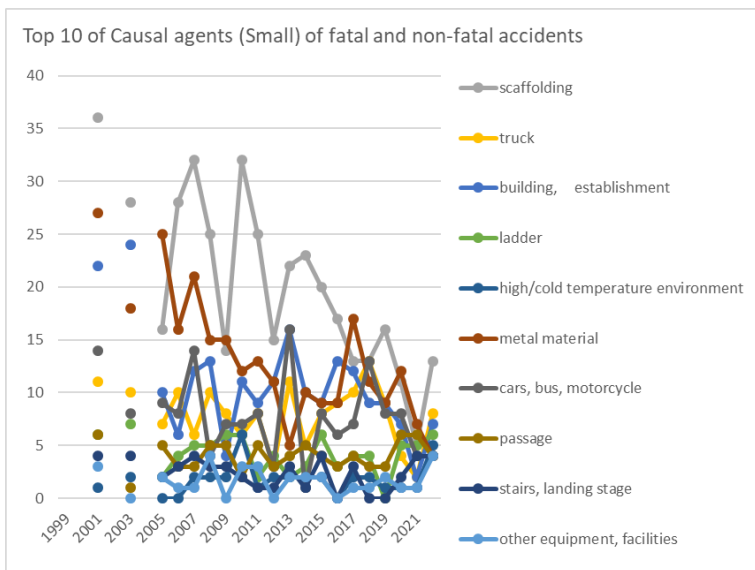
Transition of Top 7 of Type of fatal and non-fatal accidents in 030105 bridge construction work in Japan (1999-2022)



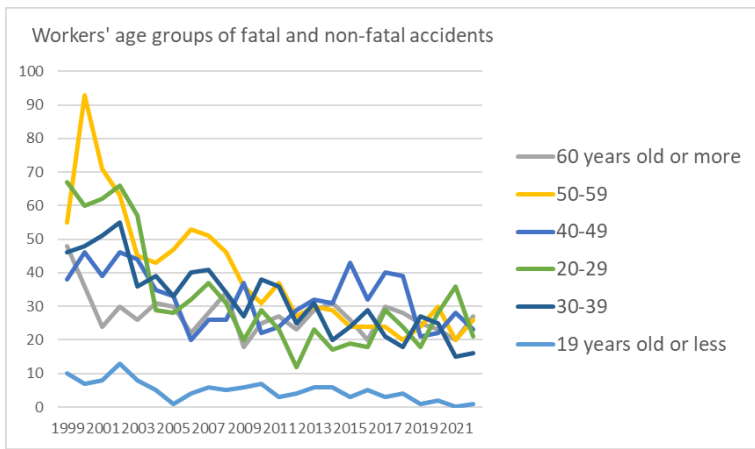
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 030105 bridge construction work in Japan (1999-2022)



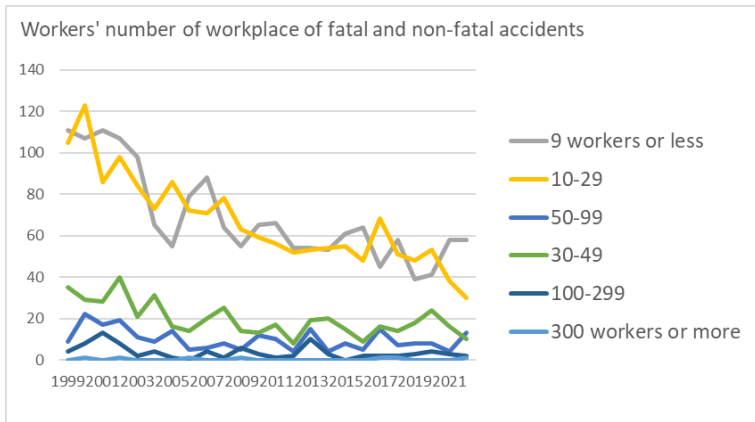
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 030105 bridge construction work in Japan (1999-2022)



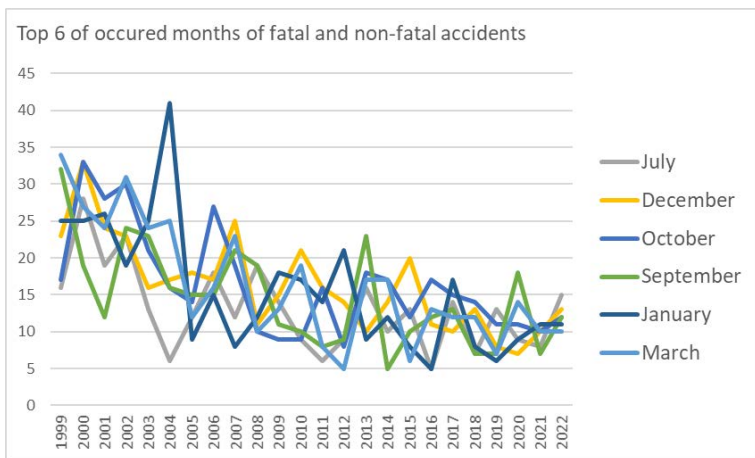
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 030105 bridge construction work in Japan (1999-2022)



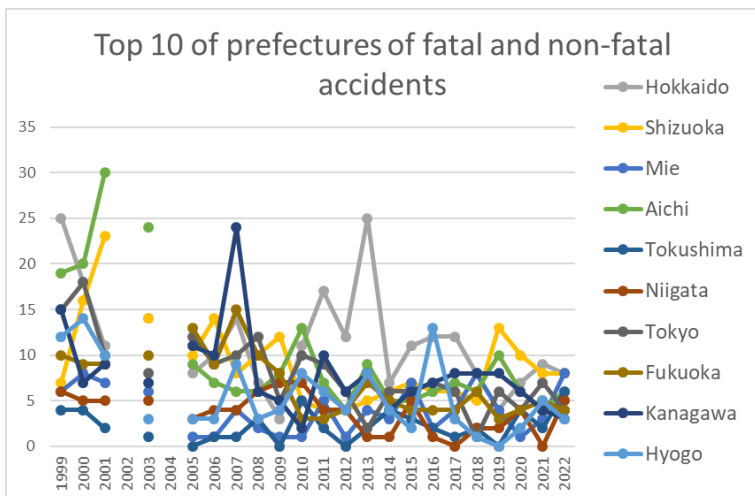
Transition of workers' age groups of fatal and non-fatal accidents in 030105 bridge construction work in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 030105 bridge construction work in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 030105 bridge construction work in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 030105 bridge construction work in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 030105 bridge construction work 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	93	90	103	87	74	56	46	57	64	59	43	55	44	42	49	46	55	33	45	32	36	34	21	40	1,304	fall from height
struck by flying or falling object	28	33	37	31	25	25	23	28	28	28	25	23	24	9	10	18	14	7	10	13	12	22	15	13	501	struck by flying or falling object





total	264	290	255	273	216	182	172	171	189	176	144	152	150	120	151	134	139	128	147	133	116	130	119	114	4,065	total
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Transition of Causal agents (Middle) of fatal and non-fatal accidents in 030105 bridge construction work 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
temporary buildings, establishments	103	97	105	97	70	62	52	59	69	65	37	58	50	40	56	51	53	46	47	35	33	35	25	38	1,383	temporary buildings, establishments
construction machine	28	25	13	20	29	11	13	16	14	21	16	7	9	16	12	15	15	9	17	10	7	10	11	12	356	construction machine
natural environment	10	15	12	21	9	4	5	5	7	6	6	10	8	9	13	4	7	6	6	9	3	6	9	12	202	natural environment
tools	20	24	19	16	16	13	8	16	11	18	15	10	11	7	6	5	10	9	6	10	3	5	10	9	277	tools
conveying machine	15	10	14	15	12	5	8	11	7	10	10	8	9	3	13	7	10	9	10	13	11	6	5	9	230	conveying machine
materials	26	39	30	35	25	28	32	20	28	18	19	14	17	15	6	12	10	14	21	12	14	15	11	8	469	materials
vehicle	14	21	15	8	8	20	10	9	14	5	7	7	8	4	16	2	9	7	7	14	8	9	4	5	231	vehicle
crane	25	26	18	29	13	15	16	17	18	13	19	13	15	10	15	12	8	9	7	13	7	13	4	4	339	crane
other equipments, facilities	2	2	3	1		2	2	1	1	4		3	3		2	2	2		1	1	2	1	1	4	40	other equipments, facilities
general machine	1	9	4	3	8	3	5	5	3		1	3	1	2	1	2	3	4	5	1	3	5	3	3	78	general machine
metal manufacturing machine	3	2	4	1	7	6	2	2	4	4	2	3	4	2	5	3	3	2	3	3	1	2	1	3	72	metal manufacturing machine

																									machine	
woodworking machine	3	6	4	7	7	1	6		3	3	1	6	1	3		5		2	1	4	1	1	1	3	69	woodworking machine
hazards, harmful substances	3	4	1	8		3	1	1	4	1	1	1	2	2	1	2		2	5	2	12	9	1	2	68	hazards, harmful substances
human power machine, tools	2	6	8	4	4	2	2	5	1	1	6	3	3	6		4	2	3	1	2	4	6	4	1	80	human power machine, tools
no causal agent		1		1	2	1	3	1	1	1		2			2	2	1	4	2	1	5	2	2	1	35	no causal agent
load	6	1	4	5	2	4	3	2	3	3		2	5		2	4	5	1	7	2	1	3	3		68	load
other causal agent		1		1	1		2	1		1	2	1	3			2					1	2	24		42	other causal agent
electric equipment	1		1		2	1			1	1					1	1			1						10	electric equipment
welding equipment	1					1				1	1									1					5	welding equipment
unclassifiable	1	1			1						1								1						5	unclassifiable
engine							2						1												3	engine
power transmission mechanism				1								1					1								3	power transmission mechanism
mobile silviculture machine																										mobile silviculture machine





working platform, boot board			20		5		6	2	5	4	4	2	4	4	4	4	3	2	8	2		5	3	3	90	working platform, boot board
timbering			8		3		8	8	6	2	1	6		4	2	1	3	4	5	3	2		3	3	72	timbering
natural ground, rock			6		6		3	4	2	1	4	2	1	2	9	2	4	2	2	2	2		4	3	61	natural ground, rock
foundation work machine			1		4		1	2	2	2	1		1	2	1	2	4	1	5	1		3	3	3	39	foundation work machine
grinding machine, buffing machine			2		5				2	2	1	1	1	2	4	1	2	1	2	2	1	2	1	3	35	grinding machine, buffing machine
other materials			1		5		2	2	1	2	1	1		1	1		1	1	3		1	1		3	27	other materials
excavating machine			6		11		4	5	3	7	3	4	4	7	1	4	2	6	7	5	4	3	4	2	92	excavating machine
other temporary buildings, establishments			3		4		3	4	4	10	5	3	5	1	2	4	8	5	1	2	3	4	1	2	74	other temporary buildings, establishments
slinging tool			9		6		1	7	1	7	4	1	7	3	1	2	4	3	1	4	2		2	2	67	slinging tool
other general power machines			4		8		5	5	2		1	3	1	2	1	2	3	2	5	1	3	5	2	2	57	other general power machines
circular sawing machine			3		7		6		2	2	1	5	1	3		5		1		3	1	1	1	2	44	circular sawing machine
vehicle for high lift work			1		6		1	1		6	1	1	1	1	1	1	2			2	2	1		2	30	vehicle for high lift work
demolition machine					1		2	1	3	3	4	1	1	2	3	2	2						2	2	29	demolition machine
other tools			4		3		5	5	5	6	5	3	2		3			3	1	2	1		3	1	52	other tools
other construction			3		4		3	5	3	2	4		1	3	3	5	1		1	1	1	2	2	1	45	other construction

machines																										machines			
crane			2		5		4	1	6		3	1	1	1	5	1		2		4		5		1	42	crane			
hand tool			5		3		1	3		1	4	1	1	5		3	2	3		2	2	3	2	1	42	hand tool			
no causal agent					2		3	1	1	1		2			2	2	1	4	2	1	5	2	2	1	32	no causal agent			
leveling, transporting or loading machine					2					1	3	1	3	1	1	1	3	1	4	1	3			1		1	29	leveling, transporting or loading machine	
other hazards, harmful substances					1					1		3		1	1					1	2	1	11	2	1	1	26	other hazards, harmful substances	
lumber, bamboo							2	2	5	1	2		1	3					2	1	1		2	2	1	25	lumber, bamboo		
opening					4					2	3	3	1													1	24	opening	
roof, beam, haze, crossbeam, principal rafter					2					1																	16	roof, beam, haze, crossbeam, principal rafter	
forklift							1	1	1				1										1	1	1	10	forklift		
hardening machine					1		2	1																		1	8	hardening machine	
mixer, grinder										1																1	5	mixer, grinder	
chain saw																										1	4	chain saw	
inflammable substance												1														1	4	inflammable substance	
railway vehicle							1																			1	2	railway vehicle	
load					3		2		1	2	2	3		2	3	4				6	2		2	3		40	load		
other causal agent							1		2	1		1	2	1	3							1	2	24		40	other causal agent		
stone, sand, substance					2					2			1	1	1	3											2	23	stone, sand, substance



lathe									1						1	1									3	lathe		
unclassifiable				1							1							1								3	unclassifiable	
power transmission mechanism												1					1									2	power transmission mechanism	
wood planer machine			1									1														2	wood planer machine	
other woodworking machines									1	1																2	other woodworking machines	
drill press, milling machine												1	1													2	drill press, milling machine	
gas welding equipment										1	1															2	gas welding equipment	
human power machine			1									1														2	human power machine	
power press			1																							1	power press	
gondola											1															1	gondola	
lumberyard equipment, logging cableway												1														1	lumberyard equipment, logging cableway	
conveyor														1												1	conveyor	
arc welding equipment																			1								1	arc welding equipment
explosive substance																		1									1	explosive substance
band sawing machine																											band sawing machine	





radiation																											radiation
total	264	290	255	273	216	182	172	171	189	176	144	152	150	120	151	134	139	128	147	133	116	130	119	114	4,065	total	

Transition of workers' age groups of fatal and non-fatal accidents in 030105 bridge construction work 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 more	48	36	24	30	26	31	30	22	28	34	18	25	27	23	29	31	26	20	30	28	25	23	20	27	661	60 years old or more
50-59	55	93	71	63	45	43	47	53	51	46	36	31	37	27	30	29	24	24	24	20	24	30	20	26	949	50-59
40-49	38	46	39	46	44	35	33	20	26	26	37	22	24	29	32	31	43	32	40	39	21	22	28	23	776	40-49
20-29	67	60	62	66	57	29	28	32	37	31	20	29	23	12	23	17	19	18	29	24	18	28	36	21	786	20-29
30-39	46	48	51	55	36	39	33	40	41	34	27	38	36	25	31	20	24	29	21	18	27	25	15	16	775	30-39
19 years old or less	10	7	8	13	8	5	1	4	6	5	6	7	3	4	6	6	3	5	3	4	1	2		1	118	19 years old or less
total	264	290	255	273	216	182	172	171	189	176	144	152	150	120	151	134	139	128	147	133	116	130	119	114	4,065	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 030105 bridge construction work 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
9 workers or less	111	107	111	107	98	65	55	79	88	64	55	65	66	54	54	53	61	64	45	58	39	41	58	58	1,656	9 workers or less
10-29	105	123	86	98	84	73	86	72	71	78	63	59	56	52	53	54	55	48	68	51	48	53	38	30	1,604	10-29
50-99	9	22	17	19	11	9	14	5	6	8	5	12	10	4	15	4	8	5	15	7	8	8	4	13	238	50-99
30-49	35	29	28	40	21	31	16	14	20	25	14	13	17	8	19	20	15	9	16	14	18	24	16	10	472	30-49
100-299	4	8	13	8	2	4	1		4	1	6	3	1	2	10	3		2	2	2	3	4	3	2	88	100-299
300 workers or more		1		1				1			1								1	1				1	7	300 workers or more
total	264	290	255	273	216	182	172	171	189	176	144	152	150	120	151	134	139	128	147	133	116	130	119	114	4,065	total



Transition of occurred months of fatal and non-fatal accidents in 030105 bridge construction work 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	16	28	19	23	13	6	12	18	12	19	14	9	6	9	16	10	13	5	14	7	13	9	8	15	314	July
December	23	33	24	23	16	17	18	17	25	11	15	21	16	14	10	14	20	11	10	13	8	7	10	13	389	December
October	17	33	28	30	21	16	14	27	19	10	9	9	16	8	18	17	12	17	15	14	11	11	10	12	394	October
September	32	19	12	24	23	16	15	15	21	19	11	10	8	9	23	5	10	12	13	7	7	18	7	12	348	September
January	25	25	26	19	25	41	9	15	8	12	18	17	14	21	9	12	8	5	17	8	6	9	11	11	371	January
March	34	27	24	31	24	25	12	16	23	10	13	19	8	5	17	17	6	13	12	12	7	14	10	10	389	March
November	30	22	21	33	15	10	18	14	15	14	5	20	24	9	15	14	20	4	21	7	20	13	9	10	383	November
August	18	14	21	20	19	9	13	12	13	26	11	8	11	11	10	6	6	9	8	11	14	7	18	10	305	August
June	14	17	18	11	15	16	17	7	16	11	9	8	9	7	13	9	11	7	8	23	6	9	5	7	273	June
February	24	34	24	27	16	10	21	10	13	21	14	9	14	9	7	13	10	14	14	11	5	10	17	6	353	February
April	21	19	17	17	17	10	8	12	15	9	10	10	13	9	7	9	10	20	9	5	11	11	4	5	278	April
May	10	19	21	15	12	6	15	8	9	14	15	12	11	9	6	8	13	11	6	15	8	12	10	3	268	May
total	264	290	255	273	216	182	172	171	189	176	144	152	150	120	151	134	139	128	147	133	116	130	119	114	4,065	total

Transition of prefectures of fatal and non-fatal accidents in 030105 bridge construction work 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	25	18	11		14		8	10	14	7	3	11	17	12	25	7	11	12	12	8	4	7	9	8	253	Hokkaido
Shizuoka	7	16	23		14		10	14	8	10	12	5	4	4	5	6	7	6	6	5	13	10	8	8	201	Shizuoka
Mie	6	8	7		6		1	1	4	2	1	1	5	1	4	3	7	2	4	8	4	1	3	8	87	Mie
Aichi	19	20	30		24		9	7	6	6	8	13	7	4	9	5	5	6	7	6	10	6	4	6	217	Aichi
Tokushima	4	4	2		1			1	1	3		5	2		2	4	3	2	1	2		4	2	6	49	Tokushima



Okayama	3	3	4					1	2	1	1	2		4	2	2			1	2	1	2	4	2	37	Okayama
Tochigi	4	2	6		1		2	1	2	1	1	1				1	3	1	2			1	4	2	35	Tochigi
Shimane	3	6	6		1			1	3	3	2				1		1	1		1		2	1	2	34	Shimane
Iwate	4	7	3		4		4	4	2	1	2	5	1	1	9	1	3	5	9	9	1	6	4	1	86	Iwate
Miyagi	2	7	3		2		4	4	1	8	2	2	4	1	5	6	6	5	6	4	2	1	6	1	82	Miyagi
Kagoshima	8	12	10		3		1	3	4	1	3	2	3	4	5	3		4	2	2			1	1	72	Kagoshima
Saitama	6	3	5		2		2	3	3	8	6	2		2	2	6	3	2	4	3	2		2	1	67	Saitama
Toyama	3		4		5		2	1	1	1	4	9	9	1	3	3	4	1	1	1	2	8	3	1	67	Toyama
Ishikawa	5	4	3		3			1		1			2	1		1	1	2	3	7	12	5	1	1	53	Ishikawa
Miyazaki	2	5	7		2		3	1	1	5	2	4	3	2	2	1		2	4		2			1	49	Miyazaki
Fukui	2	1	3		5		4	1	1	2	1	3	1	2	1	1	1	1		3	5	6	3	1	48	Fukui
Nagasaki	3	5	2		5		2	2	3	3	2	1	1		1	1	2	2	1	4	4	3		1	48	Nagasaki
Kochi	3	3	3		1		6	5	5	2	1	1	1	1	1	1	3		1			1		1	40	Kochi
Oita	8	6	4		4		2	3	4	3	3	1	3	3	4	1	1		6	9	6		1		72	Oita
Kyoto	3	5	3		3		3	7	2	4	5	1		2	3	1	4		2	3		2	3		56	Kyoto
Ibaraki		6	3		6		4	2		1		3		4	3	5	4	3	2		1	3	1		51	Ibaraki
Akita	1	2	1		2		3	1	1	2	1	2	2	2	7	3		2	1	7	2	1	2		45	Akita
Tottori	7	2	2		3		5	1	1	2	1			1	1	1	1	1	4		1				34	Tottori
Kagawa	2	4	1				2	4	2	1				3	1	1		2				1			24	Kagawa
total	264	290	255	273	216	182	172	171	189	176	144	152	150	120	151	134	139	128	147	133	116	130	119	114	4,065	total

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