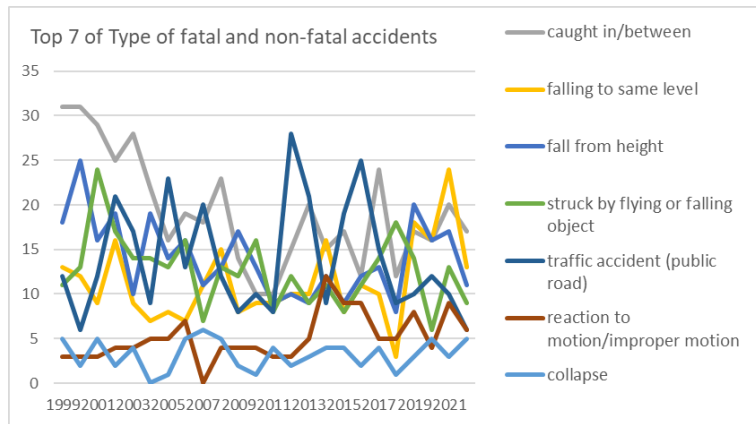
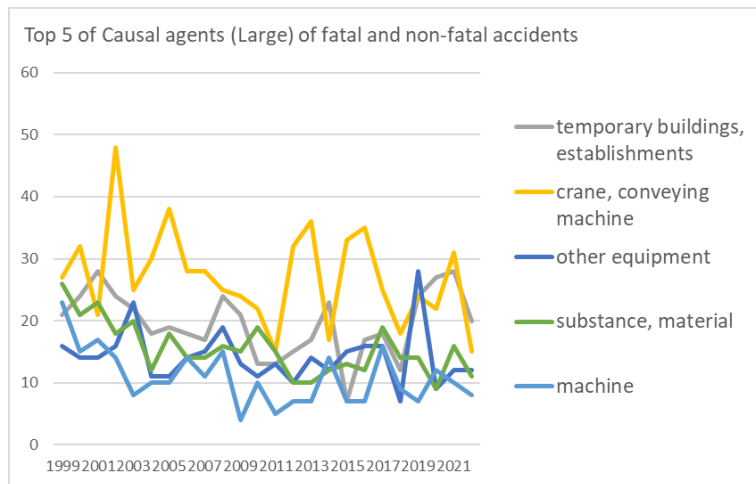


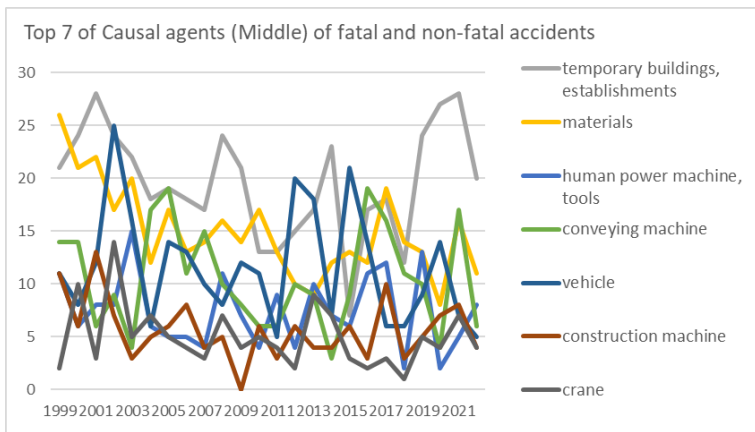
Transition of fatal and non-fatal accidents in 030104 railway construction work in Japan (1999-2022)



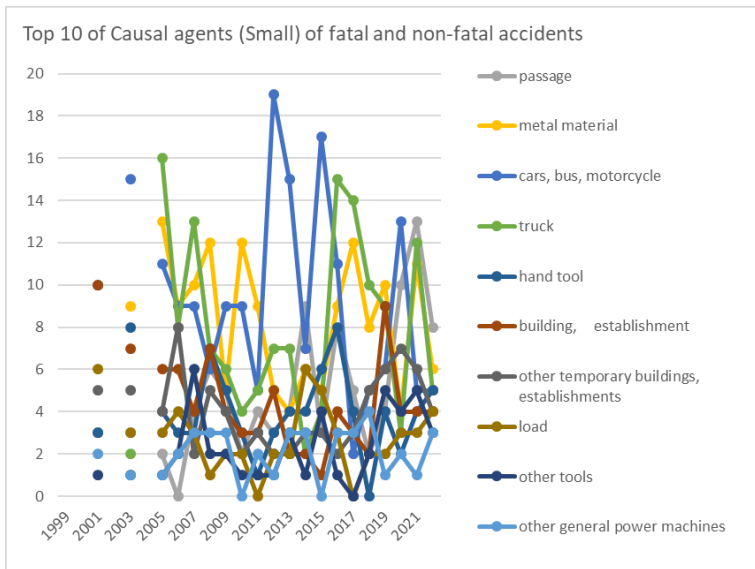
Transition of Top 7 of Type of fatal and non-fatal accidents in 030104 railway construction work in Japan (1999-2022)



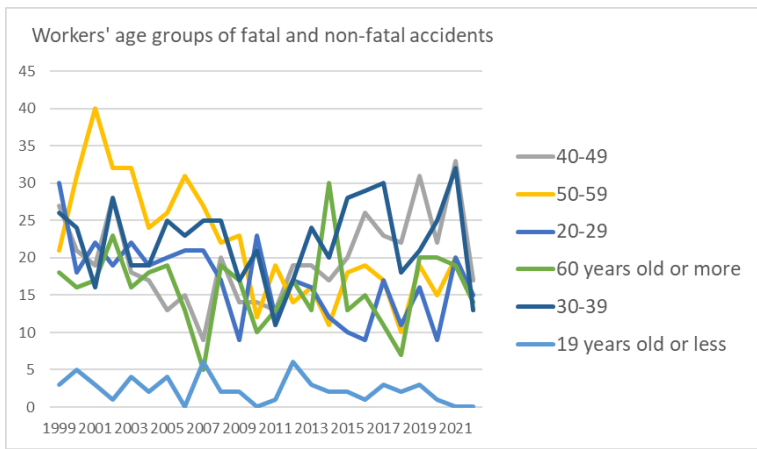
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 030104 railway construction work in Japan (1999-2022)



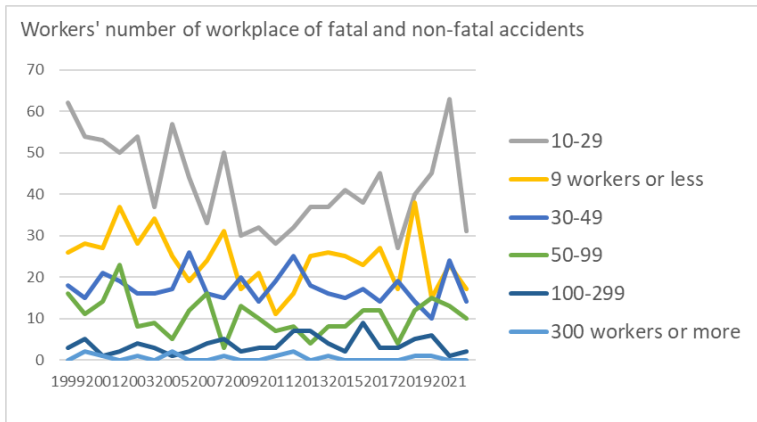
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 030104 railway construction work in Japan (1999-2022)



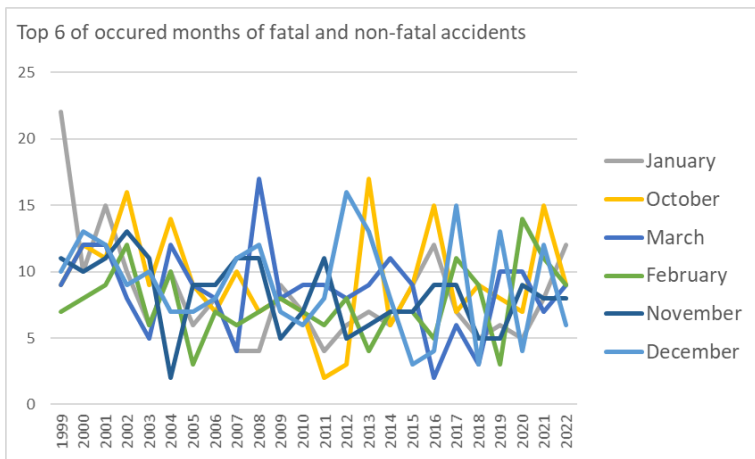
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 030104 railway construction work in Japan (1999-2022)



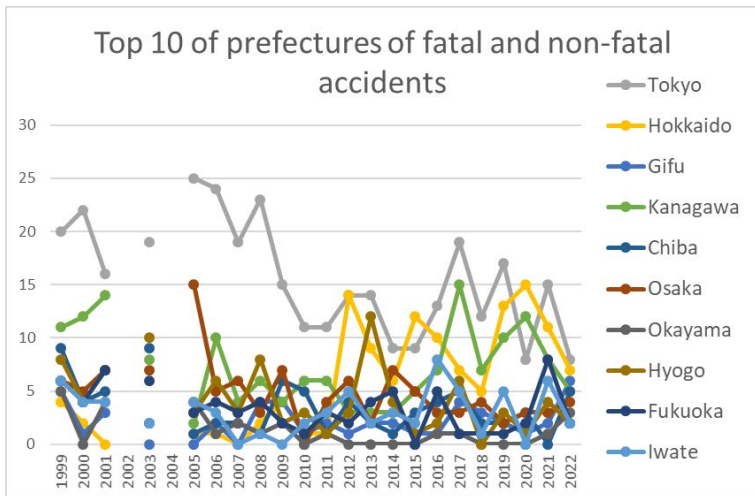
Transition of workers' age groups of fatal and non-fatal accidents in 030104 railway construction work in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 030104 railway construction work in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 030104 railway construction work in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 030104 railway construction work in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 030104 railway 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
caught in/between	31	31	29	25	28	22	16	19	18	23	14	10	10	15	20	15	17	12	24	12	17	16	20	17	461	caught in/between
falling to same level	13	12	9	16	9	7	8	7	11	15	8	9	9	10	10	16	8	11	10	3	18	16	24	13	272	falling to same level

unclassifiable				2			1						1							1				5	unclassifiable	
fire											1				1					1	1			4	fire	
burst					1						1									1				3	burst	
drown													1											1	drown	
explosion																									explosion	
total	125	115	117	131	111	99	107	103	93	105	82	80	69	90	91	92	91	99	101	70	110	92	124	74	2,371	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 030104 railway construction work 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
temporary buildings, establishments	21	24	28	24	22	18	19	18	17	24	21	13	13	15	17	23	7	17	18	12	24	27	28	20	470	temporary buildings, establishments
crane, conveying machine	27	32	21	48	25	30	38	28	28	25	24	22	15	32	36	17	33	35	25	18	24	22	31	15	651	crane, conveying machine
other equipment	16	14	14	16	23	11	11	14	15	19	13	11	13	10	14	12	15	16	16	7	28	9	12	12	341	other equipment
substance, material	26	21	23	18	20	12	18	14	14	16	15	19	15	10	10	12	13	12	19	14	14	9	16	11	371	substance, material
machine	23	15	17	14	8	10	10	14	11	15	4	10	5	7	7	14	7	7	16	9	7	12	10	8	260	machine
load	1	5	8	2	7	6	4	6	3	3	2	2		3	2	6	8	5		5	6	3	3	4	94	load
environment	8	3	3	4	4	9	1	4	5	2	3	3	5	10	2	4	4	5	4	2	4	6	2	3	100	environment
others	3	1	3	5	2	3	6	5		1			3	3	3	4	4	2	3	3	3	4	22	1	84	others
total	125	115	117	131	111	99	107	103	93	105	82	80	69	90	91	92	91	99	101	70	110	92	124	74	2,371	total

woodworking machine	5	1	1	1	1	2	1	3	2	5		2			2		1	1			1		1	30	machine		
other causal agent	1					2	1	3		1		1		1	3	1		2	1	2	19			38	other causal agent		
other equipments, facilities		2	1	3	1	1	2	2	2			2	3	2		2		1	2	4	2	1			33	other equipments, facilities	
metal manufacturing machine	1	3	1	1	2	1	2	1	2	1	1	2			5	1		2	2	1	2	1			32	metal manufacturing machine	
electric equipment	1		1		2			1		2	1	1		1		1	1		1						14	electric equipment	
hazards, harmful substances			1	1			1	1			1	2	2		1						1	1				12	hazards, harmful substances
unclassifiable				2			2					1		1											6	unclassifiable	
welding equipment					1					1										1						3	welding equipment
power transmission mechanism	1									1															2	power transmission mechanism	
pressure vessel	1														1										2	pressure vessel	
engine																											engine
mobile silviculture machine																											mobile silviculture machine

boot board			1		2		2	2	1	3	5	2	1		3	5			2	2	2	3	3		39	boot board	
other causal agent							1	3		1			1		1		3	1		2	1	2	19		35	other causal agent	
railway vehicle			2				3	1	1	2	3	1		1	2		3	3	4	1	3	1	1		32	railway vehicle	
other equipment, facilities			1		1		2	2	2				2	3	2		2			1	2	4	2	1		27	other equipment, facilities
machine/equipment as load			2		4		1	2		2				1			3	2		3	4				24	machine/equipment as load	
railway equipment			3		1			1	1	2	1	1		2	2		4	1		1	1		2		23	railway equipment	
high/cold temperature environment			1		3				3		1	1			5	1	1			2	2		2		22	high/cold temperature environment	
slinging tool			2		3		1	1	2		1	2		1				2		1		1	1		18	slinging tool	
grinding machine, buffing machine					1		1		1	1	1	1				5	1			2	1				15	grinding machine, buffing machine	
opening							1		1	1		1		1				2	3		2				12	opening	
other metal manufacturing machines			1		1		1	1	1			1							2			2	1		11	other metal manufacturing machines	
human power machine			2		2		1	1	1								1				2				10	human power machine	
leveling, transporting or loading machine							1			1		1	1	1	1					1	1		1		9	leveling, transporting or loading machine	
other powered crane								2				1	1		1	1	1		1				1		9	other powered crane	

other vehicles					1			3				1			1						1			8	other vehicles
foundation work machine								1		2				1						1	1			7	foundation work machine
forklift								1		1	1				1	1		1						6	forklift
transmission					1			1		1				1										6	transmission
vehicle for high lift work			1							1								2					1	5	vehicle for high lift work
other electrical equipment			1		1					1	1													5	other electrical equipment
timbering					1			1		1				1										5	timbering
other woodworking machines					1			1		1													1	4	other woodworking machines
harmful substance								1				1	1									1		4	harmful substance
other hazards, harmful substances							1						1	1										4	other hazards, harmful substances
water								1					3											4	water
unclassifiable							2						1		1									4	unclassifiable
chain saw								1	1													1		3	chain saw
hardening machine			1																				1	3	hardening machine
roof, beam, haze, crossbeam, principal rafter																								3	roof, beam, haze, crossbeam, principal rafter
gas welding equipment					1																			2	gas welding equipment

total	125	115	117	131	111	99	107	103	93	105	82	80	69	90	91	92	91	99	101	70	110	92	124	74	2,371	total
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Transition of workers' age groups of fatal and non-fatal accidents in 030104 railway 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
40-49	27	21	19	28	18	17	13	15	9	20	14	14	13	19	19	17	20	26	23	22	31	22	33	17	477	40-49
50-59	21	31	40	32	32	24	26	31	27	22	23	12	19	14	16	11	18	19	17	10	19	15	20	15	514	50-59
20-29	30	18	22	19	22	19	20	21	21	17	9	23	12	17	16	12	10	9	17	11	16	9	20	15	405	20-29
60 years old or more	18	16	17	23	16	18	19	13	5	19	17	10	13	17	13	30	13	15	11	7	20	20	19	14	383	60 years old or more
30-39	26	24	16	28	19	19	25	23	25	25	17	21	11	17	24	20	28	29	30	18	21	25	32	13	536	30-39
19 years old or less	3	5	3	1	4	2	4		6	2	2		1	6	3	2	2	1	3	2	3	1			56	19 years old or less
total	125	115	117	131	111	99	107	103	93	105	82	80	69	90	91	92	91	99	101	70	110	92	124	74	2,371	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 030104 railway 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
10-29	62	54	53	50	54	37	57	44	33	50	30	32	28	32	37	37	41	38	45	27	40	45	63	31	1,020	10-29
9 workers or less	26	28	27	37	28	34	25	19	24	31	17	21	11	16	25	26	25	23	27	17	38	15	23	17	580	9 workers or less
30-49	18	15	21	19	16	16	17	26	16	15	20	14	19	25	18	16	15	17	14	19	14	10	24	14	418	30-49
50-99	16	11	14	23	8	9	5	12	16	3	13	10	7	8	4	8	8	12	12	4	12	15	13	10	253	50-99
100-299	3	5	1	2	4	3	1	2	4	5	2	3	3	7	7	4	2	9	3	3	5	6	1	2	87	100-299
300 workers or more		2	1		1		2			1			1	2		1					1	1			13	300 workers or more
total	125	115	117	131	111	99	107	103	93	105	82	80	69	90	91	92	91	99	101	70	110	92	124	74	2,371	total

Transition of occurred months of fatal and non-fatal accidents in 030104 railway 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
January	22	10	15	10	6	10	6	8	4	4	9	7	4	6	7	6	9	12	7	5	6	5	8	12	198	January
October	9	12	11	16	9	14	9	7	10	7	8	7	2	3	17	6	9	15	7	9	8	7	15	9	226	October
March	9	12	12	8	5	12	9	8	4	17	8	9	9	8	9	11	9	2	6	3	10	10	7	9	206	March
February	7	8	9	12	6	10	3	7	6	7	8	7	6	8	4	7	7	5	11	9	3	14	11	9	184	February
November	11	10	11	13	11	2	9	9	11	11	5	7	11	5	6	7	7	9	9	5	5	9	8	8	199	November
December	10	13	12	9	10	7	7	8	11	12	7	6	8	16	13	8	3	4	15	3	13	4	12	6	217	December
May	3	6	6	5	8	6	16	3	6	6	7	5	2	1	2	14	7	4	7	3	6	4	12	5	144	May
July	9	14	8	12	11	7	7	13	6	6	12	7	8	10	10	11	7	16	11	6	13	6	14	4	228	July
September	14	8	11	9	13	8	4	6	9	10	5	10	11	16	7	9	8	10	6	8	12	8	11	4	217	September
August	10	10	6	11	15	9	10	9	12	10	3	5	3	8	4	6	6	5	6	9	6	9	12	3	187	August
April	8	5	4	8	4	5	11	15	3	6	6	7	1	3	4	2	7	11	3	3	16	10	4	3	149	April
June	13	7	12	18	13	9	16	10	11	9	4	3	4	6	8	5	12	6	13	7	12	6	10	2	216	June
total	125	115	117	131	111	99	107	103	93	105	82	80	69	90	91	92	91	99	101	70	110	92	124	74	2,371	total

Transition of prefectures of fatal and non-fatal accidents in 030104 railway 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
Tokyo	20	22	16		19		25	24	19	23	15	11	11	14	14	9	9	13	19	12	17	8	15	8	343	Tokyo
Hokkaido	4	2			2		1	1		2	4	1	1	14	9	6	12	10	7	5	13	15	11	7	127	Hokkaido
Gifu	5	1	3					2		4	4	1	2	1	2	2	1	1	4	3	2	1	2	6	47	Gifu
Kanagawa	11	12	14		8		2	10	4	6	4	6	6	3	3	3	5	7	15	7	10	12	8	5	161	Kanagawa
Chiba	9	4	5		9		1	2	2	1	6	5	1	4	2	1	3	4	5	2	2	3		5	76	Chiba
Osaka	6	5	7		7		15	5	6	3	7		4	6	2	7	5	3	3	4	2	3	3	4	107	Osaka

Okayama	5		4		2		4	1	2	1	2		1				1	1				1	3	28	Okayama		
Hyogo	8	4	7		10		3	6	3	8	2	3	1	3	12	4	1	2	6		3	1	4	2	93	Hyogo	
Fukuoka	6	4	7		6		3	4	3	4	2	1	3	2	4	5		5	1	1	1	2	8	2	74	Fukuoka	
Iwate	6	4	4		2		4	3		1		2	3	5	2	3	2	8	5	1	5		6	2	68	Iwate	
Yamaguchi	2	1	1		2		2	5	1	3	3	1	4	3	2		2	4	2		3	4		2	47	Yamaguchi	
Kyoto	4	3	1		2		3	1	3	3	1	1	1	1		3	1		3	2	2	2	2	2	41	Kyoto	
Tochigi	1	2	2		6		1	1		1	1	1	2		2	2	1	2	1	2	2		4	2	36	Tochigi	
Niigata		2							1	4	2	1	1	1	4	2	3	2	1		1	5	1	2	33	Niigata	
Nagano	1	3	1					1	2		1	1	3	2		4	2	2	1		2	3	1	2	32	Nagano	
Wakayama								3		1								1		2				2	9	Wakayama	
Saitama	2	6	6		8		6	1	1	6	4	8		4	3	4	5	2	5	5	3	2	6	1	88	Saitama	
Miyagi	4	2	3		3		1	2	9	5	4	5	3	3	3	7	7	2		2	5	1	5	1	77	Miyagi	
Shizuoka	3	5	5		3			6	2	3	3	2	3		6	6	6	7		1	3	4	3	1	72	Shizuoka	
Aichi	3	4	2		7		4	1	10	7	1	3	2	2	4	2	4	3	2	3	2	1	1	1	69	Aichi	
Fukushima		3	2		1		9	4	5	1	3		2		4	5	4	2	4		5	2	11	1	68	Fukushima	
Hiroshima	1	3	2				6	1						1	1		2	2	3	3	1	3	9	1	39	Hiroshima	
Toyama	1		2						1	1	5	3	3	4	2	2	1	1		1	2	4	1	1	35	Toyama	
Fukui		1	1					1		1					1	1			1	2	4	7	7	1	28	Fukui	
Aomori	1	2	1					1	1		1	2	2	5	1	2		1	3	1	1	1		1	27	Aomori	
Nagasaki		1	2		1		1	2		1	1	2			3				1	3	4	1	1	1	25	Nagasaki	
Gunma	3	1	2				1			1	2	2	2		1	2		2	1	1	1			1	23	Gunma	
Shiga		1						1	1	1	1	1	1	1	1	3	3	1	1				1	1	19	Shiga	
Ishikawa	1	3												2					1		3	1	2	4	1	18	Ishikawa

Saga	1	1			2			1	1		1		1	1							3	1		1	14	Saga	
Nara	1	1					2	1							1	2					1		1	1	11	Nara	
Shimane	1	1	2				1	1				1			1									1	9	Shimane	
Tokushima		2	1				2			1							1	1						1	9	Tokushima	
Oita									2			4		1										1	8	Oita	
Ibaraki	3	1	1		2		1		2	1		2	1	1			3	6		2	1		4		31	Ibaraki	
Yamagata	4		3		1		1			3		5	2			1	2			1					23	Yamagata	
Kagawa	1		2		3		1	2	1	1		1			1						3				17	Kagawa	
Kochi	2	4	1					1	2	1									1	1	1	1	1		16	Kochi	
Kagoshima			3		2				1			1		1	1	1	1		2		1		2		16	Kagoshima	
Mie	2				1		1							3		1	1	1	1		4				15	Mie	
Kumamoto		1						4	3	2	1	1			1									1	14	Kumamoto	
Akita	1		1		1		2	2	1	2		1									2				13	Akita	
Yamanashi	1	2					1				1		1			2	2								10	Yamanashi	
Ehime	1		1		1		2			1		1					1	1	1						10	Ehime	
Tottori		1	2					1	2	1			2												9	Tottori	
Miyazaki							1	1	2					2											6	Miyazaki	
Okinawa																											Okinawa
total	125	115	117	131	111	99	107	103	93	105	82	80	69	90	91	92	91	99	101	70	110	92	124	74	2,371	total	

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