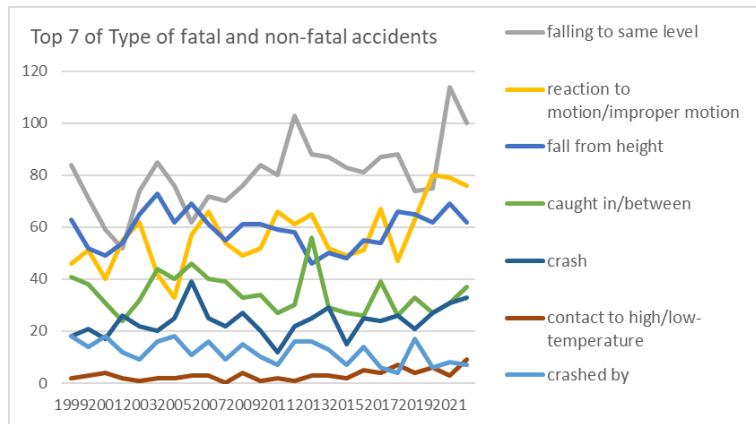
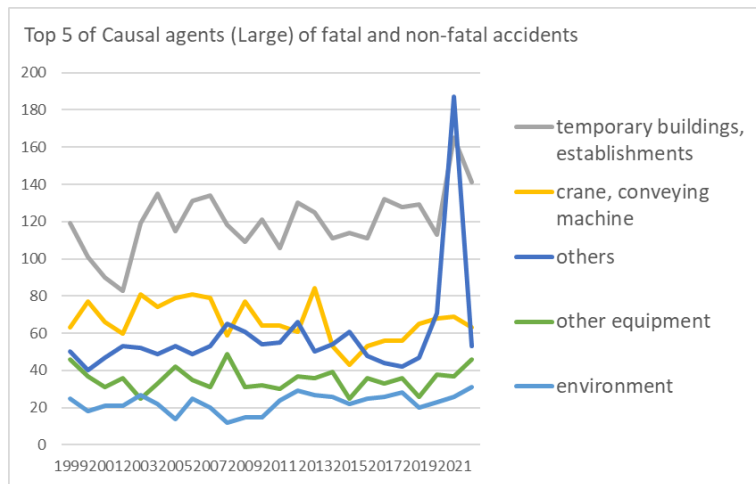


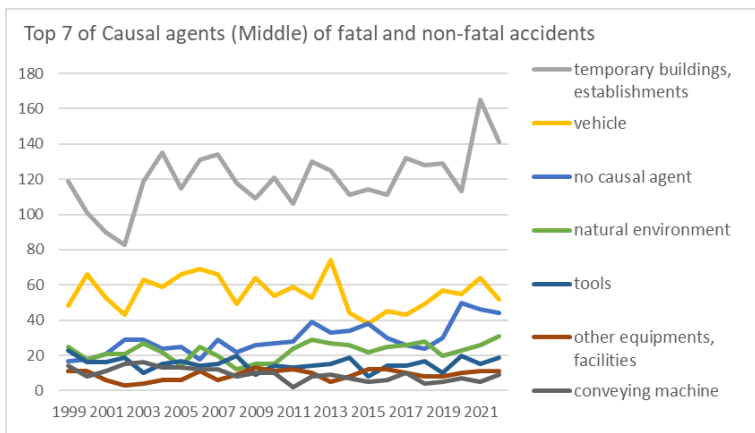
Transition of fatal and non-fatal accidents in 040101 railroad service in Japan (1999-2022)



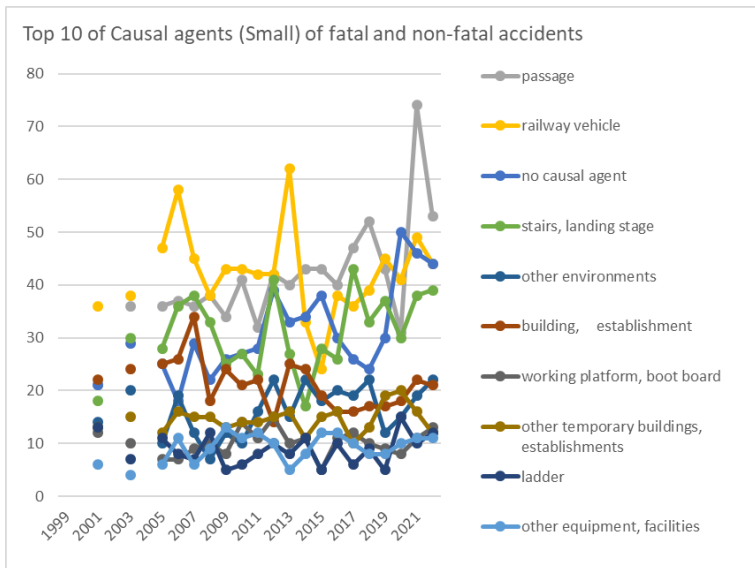
Transition of Top 7 of Type of fatal and non-fatal accidents in 040101 railroad service in Japan (1999-2022)



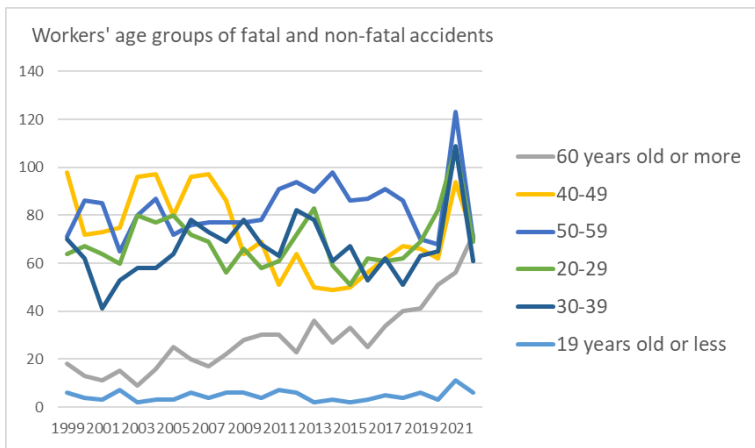
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 040101 railroad service in Japan (1999-2022)



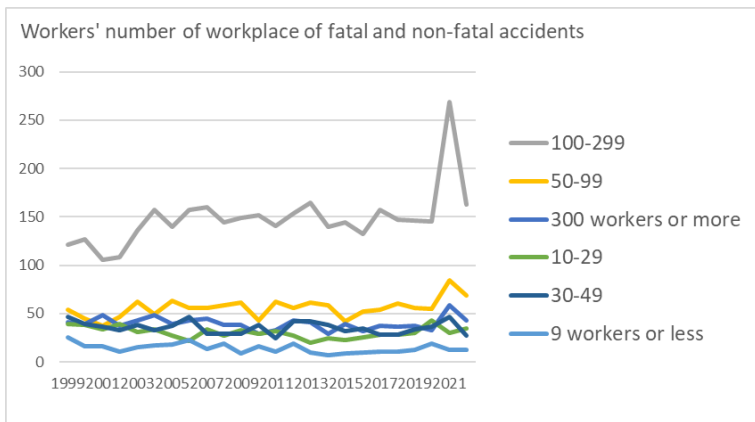
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 040101 railroad service in Japan (1999-2022)



Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 040101 railroad service in Japan (1999-2022)



Transition of workers' age groups of fatal and non-fatal accidents in 040101 railroad service in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 040101 railroad service in Japan (1999-2022)

motion/improper motion	46	51	40	55	62	42	33	57	66	54	49	52	66	61	65	52	49	51	67	47	63	80	79	76	1,363	motion/improper motion	
fall from height	63	52	49	54	65	73	62	69	61	55	61	61	59	58	46	50	48	55	54	66	65	62	69	62	1,419	fall from height	
caught in/between	41	38	31	24	32	44	40	46	40	39	33	34	27	30	56	29	27	26	39	26	33	27	31	37	830	caught in/between	
crash	18	21	17	26	22	20	25	39	25	22	27	20	12	22	25	29	15	25	24	26	21	27	31	33	572	crash	
contact to high/low-temperature	2	3	4	2	1	2	2	3	3		4	1	2	1	3	3	2	5	4	7	4	6	3	9	76	contact to high/low-temperature	
crashed by	18	14	18	12	9	16	18	11	16	9	15	10	7	16	16	13	7	14	6	4	17	6	8	7	287	crashed by	
others	13	14	15	14	7	8	19	12	11	27	14	14	16	17	8	10	18	13	8	14	14	21	143	6	456	others	
struck by flying or falling object	13	12	10	10	10	13	11	9	9	8	7	8	12	10	2	4	6	6	7	9	5	12	5	5	203	struck by flying or falling object	
electric shock	2	5	2	4	2		4	2	5	3	1	2	1	1	3	2	2	2		3		2	1	5	54	electric shock	
traffic accident (public road)	12	9	14	10	15	10	13	11	12	7	14	3	8	4	11	5	11	2	2	11	5	6	9	3	207	traffic accident (public road)	
cut	5	4	6	1	7	8	6	4	5	8	9	7	4	5	9	6	6	1	6	6	5	2	4	2	126	cut	
traffic accident (others)	3	6	3	3	6	3	8	11	4	2	2	4	1	2	3	3	2		4		5	1	2	2	80	traffic accident (others)	
unclassifiable	6	2	5	8	11	10	3	7	6	8	7	5		6	2	2	5	3	3	2	1	1	1	1	105	unclassifiable	
injury to the sole of the foot			1			2	1	1		1		1	3				1		2			2		1	16	injury to the sole of the foot	
collapse	1	1	3			1	1	4	1	2			1	5	1	1	4	1	1	1	3				32	collapse	
contact to harmful		1				2	1			1			1	2			1	3	1				1	1		15	contact to harmful

total	327	304	277	275	325	338	324	348	337	316	319	307	303	341	339	297	289	286	315	310	315	331	501	349	7,773	total
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Transition of Causal agents (Middle) of fatal and non-fatal accidents in 040101 railroad service 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	119	101	90	83	119	135	115	131	134	118	109	121	106	130	125	111	114	111	132	128	129	113	165	141	2,880	temporary buildings, establishments
vehicle	48	66	53	43	63	59	66	69	66	49	64	54	59	53	74	44	38	45	43	49	57	55	64	52	1,333	vehicle
no causal agent	17	18	21	29	29	24	25	18	29	22	26	27	28	39	33	34	38	30	26	24	30	50	46	44	707	no causal agent
natural environment	25	18	21	21	27	22	14	25	20	12	15	15	24	29	27	26	22	25	26	28	20	23	26	31	542	natural environment
tools	23	16	16	19	10	15	17	14	15	20	9	14	13	14	15	19	8	14	14	17	10	20	15	19	366	tools
other equipments, facilities	11	11	6	3	4	6	6	11	6	9	13	11	12	10	5	8	12	12	10	8	8	10	11	11	214	other equipments, facilities
conveying machine	14	8	11	15	16	13	13	12	12	8	10	10	2	8	9	7	5	6	10	4	5	7	5	9	219	conveying machine
human power machine, tools	9	7	6	8	9	11	11	8	5	16	8	4	5	12	13	7	3	7	7	7	7	7	9	9	195	human power machine, tools
other causal agent	26	20	23	16	13	18	26	26	19	29	30	22	25	18	14	20	20	16	15	18	15	20	140	8	597	other causal agent
load	6	9	7	9	8	4	5	10	7	2	5	3	2	3	7	2	3	6	9	3	9	6	6	7	138	load
electric equipment	3	3	2	5	2	1	7	2	5	4	1	3		1	3	4	2	3	2	4	1	1	2	6	67	electric equipment

machine																											silviculture machine
chemical facilities																											chemical facilities
total	327	304	277	275	325	338	324	348	337	316	319	307	303	341	339	297	289	286	315	310	315	331	501	349	7,773	total	

Transition of Causal agents (Small) of fatal and non-fatal accidents in 040101 railroad service in Japan (1999-2022)

Causal (S) 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 (S) agents
passage			21		36		36	37	36	38	34	41	32	42	40	43	43	40	47	52	43	31	74	53	819	passage
railway vehicle			36		38		47	58	45	38	43	43	42	42	62	33	24	38	36	39	45	41	49	44	843	railway vehicle
no causal agent			21		29		25	18	29	22	26	27	28	39	33	34	38	30	26	24	30	50	46	44	619	no causal agent
stairs, landing stage			18		30		28	36	38	33	25	27	23	41	27	17	28	26	43	33	37	30	38	39	617	stairs, landing stage
other environments			14		20		10	19	12	7	12	10	16	22	15	22	18	20	19	22	12	15	19	22	326	other environments
building, establishment			22		24		25	26	34	18	24	21	22	14	25	24	19	16	16	17	17	18	22	21	425	building, establishment
working platform, boot board			12		10		7	7	9	10	8	14	11	15	10	11	5	11	12	10	9	8	11	13	203	working platform, boot board
other temporary buildings, establishments			13		15		12	16	15	15	13	14	14	15	16	11	15	16	10	13	19	20	16	12	290	other temporary buildings, establishments
ladder			13		7		11	8	7	12	5	6	8	10	8	11	5	10	6	9	5	15	10	12	178	ladder
other equipment, facilities			6		4		6	11	6	9	13	11	12	10	5	8	12	12	10	8	8	10	11	11	183	other equipment, facilities
other causal agent			23		13		26	26	19	29	30	22	25	18	14	20	20	16	15	18	15	20	140	8	517	other causal agent
other tools			2		3		6	6	6	8	4	8	5	3	7	8	3	4	8	8	5	5	5	7	111	other tools

unclassifiable			3		10		2	5	5	14	5	5	2	9	3		3	2	3		2	1	1	1	76	unclassifiable	
metal material			4		5		5	3	2	2	1	3	5	2	1	2	4	2	2	3	1	6	4	1	58	metal material	
stone, sand, substance			1				2	2	4	3	4	4	2	1	1		1	1	2	3	4	1	1	1	38	stone, sand, substance	
roof, beam, haze, crossbeam, principal rafter					2		3	4			1	1	1	1	2	1	2		1	1	1		1	1	23	roof, beam, haze, crossbeam, principal rafter	
other materials					1			1	1		1	1	1	2		2	3			1	1	1		1	17	other materials	
machine/equipment as load			4		2			1					1		1		1		1	1		1	2	1	16	machine/equipment as load	
human power cranes								1		3			1									1		1	7	human power cranes	
other metal manufacturing machines			1					1					1											1	4	other metal manufacturing machines	
human power machine																						1	1		1	3	human power machine
gas welding equipment							1																	1	2	gas welding equipment	
natural ground, rock			3		2		2	4	4	4	2	2	7	4	8	2	2	2	4		4	1	5		62	natural ground, rock	
other powered conveying machines			4		3		1	2	4	1	2	4		3	5	2	2	3	3		3	1			43	other powered conveying machines	
lumber, bamboo					1		1	3		1	1	3	2	3	1	1	3				2	2	2		26	lumber, bamboo	
transmission			1		1		2	2	5	2		2			1	1		1	1	1					20	transmission	

power transmission mechanism			1				1	1		1			3	1	1	1			2	2	2				16	power transmission mechanism
scaffolding			2		1			1	1	1		1	1		1	1						1	2		13	scaffolding
other hazards, harmful substances							1	1			2		2			1	2	1	2						12	other hazards, harmful substances
crane								1	2			1			1		1	1	2			1			10	crane
grinding machine, buffing machine			1						1		1		2			1		1			1				9	grinding machine, buffing machine
other powered crane					1					1		2		1				1		1	1				8	other powered crane
lathe			1		2		1			1	1	1													7	lathe
circular sawing machine			1		1						1					1	1					1			6	circular sawing machine
leveling, transporting or loading machine										1		1							1			1	1		5	leveling, transporting or loading machine
mobile crane					1					1					1		1		1						5	mobile crane
chain saw					1				1			1			1										4	chain saw
vehicle for high lift work												2					1						1		4	vehicle for high lift work
conveyor						2	1									1									4	conveyor
slinging tool			1					2					1												4	slinging tool
harmful substance					1			1								2									4	harmful substance
drill press, milling machine			1						1									1							3	drill press, milling machine

total	327	304	277	275	325	338	324	348	337	316	319	307	303	341	339	297	289	286	315	310	315	331	501	349	7,773	total
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Transition of workers' age groups of fatal and non-fatal accidents in 040101 railroad service 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	18	13	11	15	9	16	25	20	17	22	28	30	30	23	36	27	33	25	34	40	41	51	56	72	692	60 years old or more
40-49	98	72	73	75	96	97	80	96	97	86	64	69	51	64	50	49	50	56	62	67	66	62	94	71	1,745	40-49
50-59	71	86	85	65	80	87	72	76	77	77	77	78	91	94	90	98	86	87	91	86	70	68	123	70	1,985	50-59
20-29	64	67	64	60	80	77	80	72	69	56	66	58	61	72	83	59	51	62	61	62	69	82	108	69	1,652	20-29
30-39	70	62	41	53	58	58	64	78	73	69	78	68	63	82	78	61	67	53	62	51	63	65	109	61	1,587	30-39
19 years old or less	6	4	3	7	2	3	3	6	4	6	6	4	7	6	2	3	2	3	5	4	6	3	11	6	112	19 years old or less
total	327	304	277	275	325	338	324	348	337	316	319	307	303	341	339	297	289	286	315	310	315	331	501	349	7,773	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 040101 railroad service 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	121	127	106	108	136	157	140	157	160	144	149	152	141	154	165	140	144	132	157	147	146	145	269	163	3,560	100-299
50-99	54	45	37	47	62	49	63	56	56	59	61	43	62	56	61	59	42	52	54	60	56	55	84	69	1,342	50-99
300 workers or more	41	39	48	37	43	48	39	43	45	38	38	29	33	43	41	29	39	32	37	36	37	33	59	43	950	300 workers or more
10-29	39	38	34	39	31	34	27	22	34	27	33	29	32	27	20	24	23	25	28	28	30	43	30	35	732	10-29
30-49	47	39	36	33	38	33	37	47	29	29	29	38	24	42	42	38	32	35	28	28	34	36	47	27	848	30-49
9 workers or less	25	16	16	11	15	17	18	23	13	19	9	16	11	19	10	7	9	10	11	11	12	19	12	12	341	9 workers or less
total	327	304	277	275	325	338	324	348	337	316	319	307	303	341	339	297	289	286	315	310	315	331	501	349	7,773	total

Transition of occurred months of fatal and non-fatal accidents in 040101 railroad service 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	25	22	30	33	36	27	36	35	27	37	32	40	53	33	45	33	34	27	35	35	44	30	39	52	840	January
February	40	30	26	25	31	37	37	37	31	32	31	32	29	37	39	35	33	29	31	37	32	31	52	35	809	February
December	22	27	20	19	21	34	33	29	27	33	24	18	32	24	27	32	19	22	35	29	25	45	39	33	669	December
September	23	28	17	18	24	41	32	26	39	22	27	20	26	32	26	26	27	22	25	31	23	26	33	32	646	September
April	27	21	16	16	28	28	25	30	24	22	39	31	20	23	27	29	18	24	29	26	31	24	31	28	617	April
July	23	27	25	29	23	27	16	29	24	27	22	22	22	27	25	16	30	31	28	21	22	18	53	28	615	July
March	38	29	29	34	31	34	27	30	39	31	31	32	27	42	29	32	30	33	29	22	27	32	26	27	741	March
May	25	17	21	19	25	21	25	20	24	16	19	24	19	30	18	19	16	23	11	21	21	23	57	26	540	May
October	28	22	17	16	29	22	16	26	29	26	25	17	19	26	31	15	18	18	20	17	28	27	36	24	552	October
June	24	26	24	22	32	22	25	37	22	21	21	24	16	33	24	19	25	19	28	22	19	28	33	22	588	June
November	28	27	25	24	18	28	30	29	27	28	22	22	23	19	22	16	23	18	23	19	23	20	23	22	559	November
August	24	28	27	20	27	17	22	20	24	21	26	25	17	15	26	25	16	20	21	30	20	27	79	20	597	August
total	327	304	277	275	325	338	324	348	337	316	319	307	303	341	339	297	289	286	315	310	315	331	501	349	7,773	total

Transition of prefectures of fatal and non-fatal accidents in 040101 railroad service 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	48	25	41		45		36	53	47	55	42	59	42	51	31	38	46	46	43	43	47	37	45	48	968	Tokyo
Osaka	28	36	28		33		27	32	31	37	40	30	26	33	33	23	27	28	31	39	33	28	110	42	775	Osaka
Hokkaido	11	15	12		15		16	8	14	10	12	14	16	16	19	10	13	23	20	18	25	29	45	33	394	Hokkaido
Chiba	22	16	15		24		22	14	15	8	14	11	12	15	11	16	11	15	16	13	14	13	18	24	339	Chiba
Kanagawa	18	24	21		20		19	38	32	29	22	21	23	33	28	20	15	16	24	23	25	31	30	21	533	Kanagawa
Nagano	30	18	15		25		29	21	25	24	26	17	23	24	30	33	25	20	24	27	32	37	28	20	553	Nagano

Fukuoka	4	11	3		8		9	9	13	9	9	11	11	8	14	11	14	6	8	14	14	6	18	17	227	Fukuoka	
Aichi	11	11	10		3		18	18	17	10	18	11	12	15	13	12	14	6	9	12	11	7	11	15	264	Aichi	
Hyogo	15	14	11		5		12	12	10	10	5	13	12	14	12	9	16	12	13	11	11	19	15	14	265	Hyogo	
Kyoto	6	1	2		1		9	8	8	3	8	4	9	8	16	17	7	11	11	12	10	11	13	11	186	Kyoto	
Shizuoka	2	3	4		11		4	3	7	8	5	3	6	8	4	6	5	4	3	6	3	1	3	10	109	Shizuoka	
Yamagata	2	5	3		2			3	4	2	2	6	6	1	6	1		2	7	1	1	4	4	9	71	Yamagata	
Hiroshima	5	9	6		18		6	9	8	4	10	6	9	7	8	3	6	7	9	7	12	7	10	8	174	Hiroshima	
Saitama	15	9	12		15		15	21	9	17	8	14	12	16	16	10	9	10	6	7	6	14	17	7	265	Saitama	
Gunma	11	16	8		12		14	5	6	10	15	4	11	15	12	12	18	6	11	7	8	5	6	6	218	Gunma	
Niigata	24	10	9		6		7	10	12	9	9	6	8	11	6	10	2	8	8	4	5	11	15	6	196	Niigata	
Miyagi	5	7	7		9		5	3	10	6	5	13	8	6	6	3	6	3	7	4	4	4	6	5	132	Miyagi	
Akita	2	2	3		2		3	2	4	3	2	3	3	5	5	2	1	6	4	4	4	2	4	5	71	Akita	
Ibaraki	7	7	11		11		2	7	5	1	3	3	2	7	8	4	1	1	3			3	5	4	95	Ibaraki	
Yamaguchi		1			2		1	2		3	4	1	4	3	4	1	3	3	3	3	5	2	2	4	51	Yamaguchi	
Nara	1	1	2		1		1	1	3	3	1	1	1	1	3	2	4	4	4	1	1	4	3	4	47	Nara	
Tokushima	1				2		4		2	3	5	1			1	1	5	4	3	2		1		4	39	Tokushima	
Ishikawa	1		1		2		2	3	4	2		1	1	1	2	1	3	4	2	8	5	2	21	3	69	Ishikawa	
Okayama	1	8	2		1		5	4	3	6	2	2	1	3	2	4	2	3	4	2	2	4	3	3	67	Okayama	
Mie	5		4		2		4	4	3	3	4	2	2	1	4		3	5	2	2	4	2	2	3	61	Mie	
Kagawa	7	3	6		7		6	8	10	2	7	5		4	4	2	2	4	3	5	5	3	13	2	108	Kagawa	
Shiga	2	7	4		3		1	5	2	1	1	4	6	4	6	3	1	5	1	1	1	4	10	2	74	Shiga	
Ehime	4	5	2		3		3	3	3	5	5	2	5	2	5	6	2	2	2	2	2	6	1	2	72	Ehime	
Aomori	2	4	2		4		8	1	3	1	3	3	5	7	2	3					1	3	3	3	2	60	Aomori

Kagoshima	6	1	2		1		2			1			1	1	1	4	4	2	3	2	3	2	6	2	44	Kagoshima
Wakayama	2		1		1		3	2		2			2	1	1		1	3	2		1	1	4	2	29	Wakayama
Tottori	2				2		1	6			2						2				1	3		2	21	Tottori
Fukushima	8	5	3		4		9	9	5	6	5	9	3	5	6	4	1	2	4	3	2	2	3	1	99	Fukushima
Toyama	1	4	2		6		2	2	2		1	3	4	1	1	1	6	2	3	4	5	4	5	1	60	Toyama
Gifu		4	2		2		6	4	4	3	2	5	3	2	3	2	2		4	5	3	1	2	1	60	Gifu
Kumamoto	2	5	2						1	1	4	7	1	2	2	3	1	2	3	2	2	2	5	1	48	Kumamoto
Iwate	2		3		2		3	1	1	1	1	1		1	3	4	3	1	1	2	2	1	4	1	38	Iwate
Fukui	1	8	2		1		1	1		4	3	2	1	2		2		1	1			3	3	1	37	Fukui
Yamanashi	1		3		4		2	3	1	1	2		1		2		1	2	2	1		2	1	1	30	Yamanashi
Saga	1	1	1					1	1	2		2		2	1		1			1				1	15	Saga
Miyazaki	1				1							1	2						1	1		1	1	1	10	Miyazaki
Nagasaki	4		5		3		1	4	5	7	9	3	4	3	3	5	3	2	2	1	1	7	3		75	Nagasaki
Tochigi	2	2	2		2			4	3		1	1	2	2	1	3	1	1	2	4	1				34	Tochigi
Kochi	1	4	1		1		6	2	1	1	1	2	1		2	1		3	2	2	1	1	1		34	Kochi
Oita	3		3		2				2				1		1	2	2	1	1	3			1		22	Oita
Shimane		2	1		1			2	1	3	1					1			3			1	1		17	Shimane
Okinawa													1		1	2									4	Okinawa
total	327	304	277	275	325	338	324	348	337	316	319	307	303	341	339	297	289	286	315	310	315	331	501	349	7,773	total

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