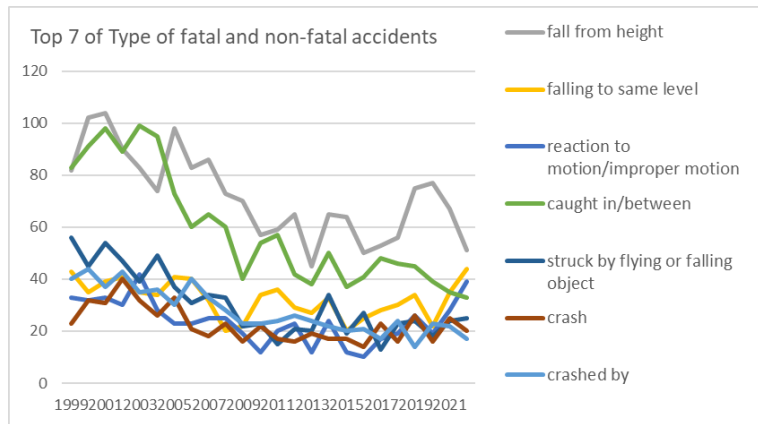
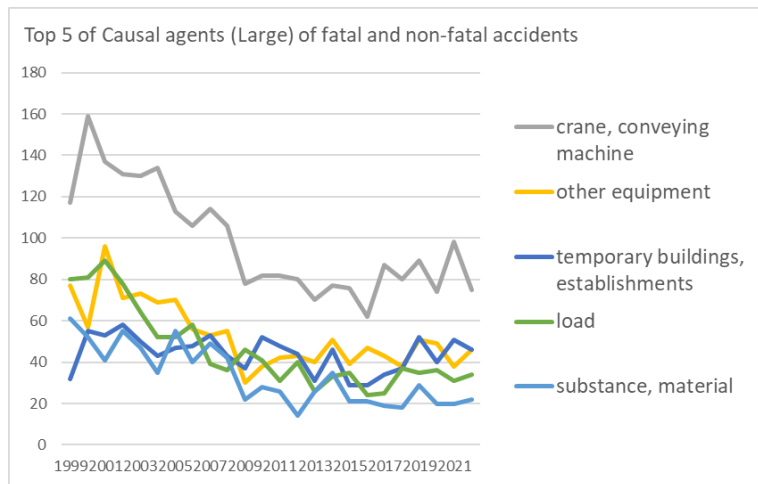


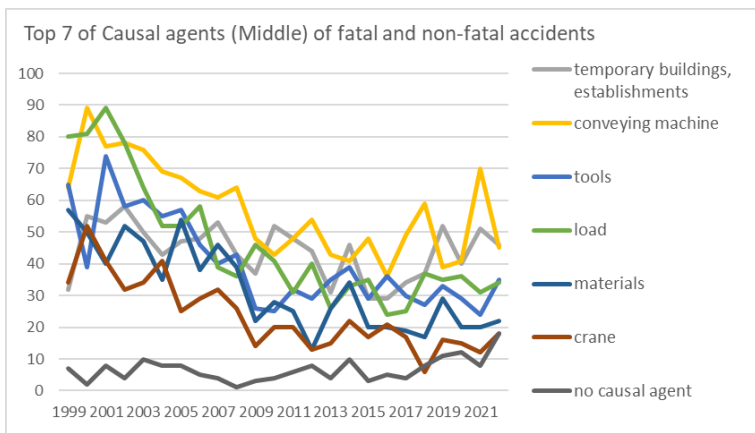
Transition of fatal and non-fatal accidents in 050202 port cargo handling service in Japan (1999-2022)



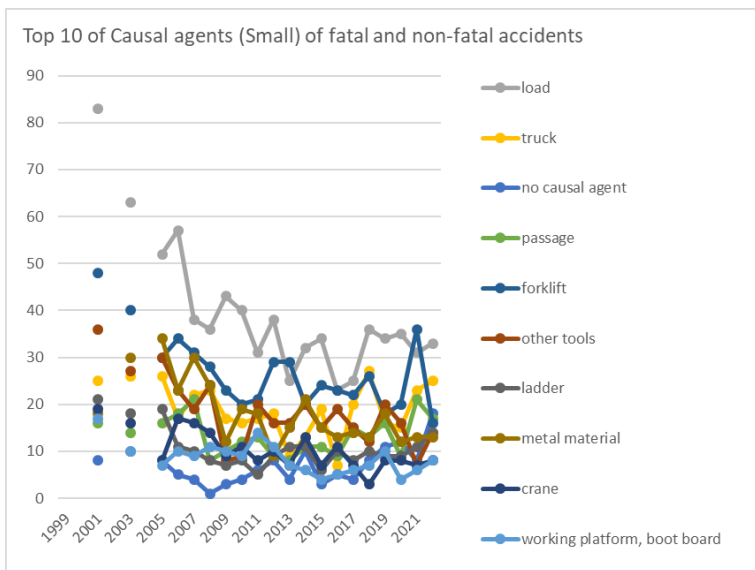
Transition of Top 7 of Type of fatal and non-fatal accidents in 050202 port cargo handling service in Japan (1999-2022)



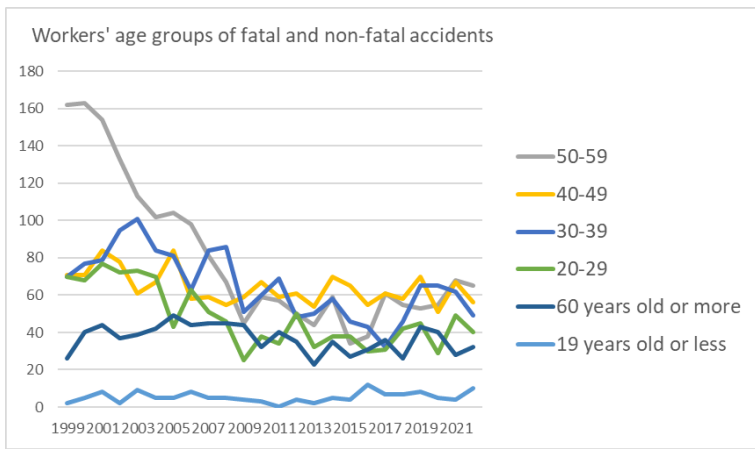
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 050202 port cargo handling service in Japan (1999-2022)



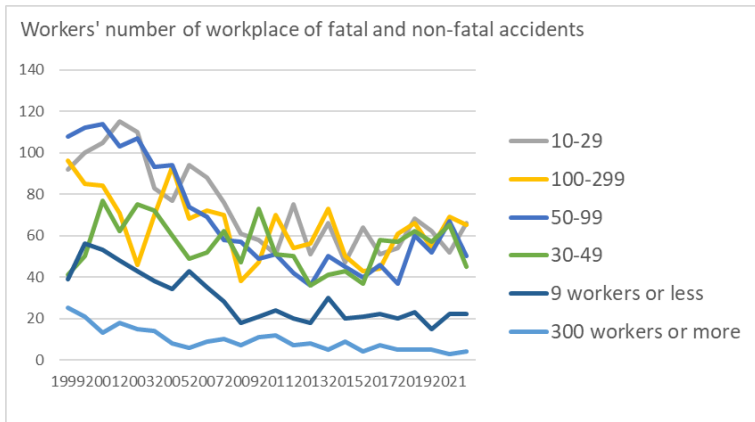
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 050202 port cargo handling service in Japan (1999-2022)



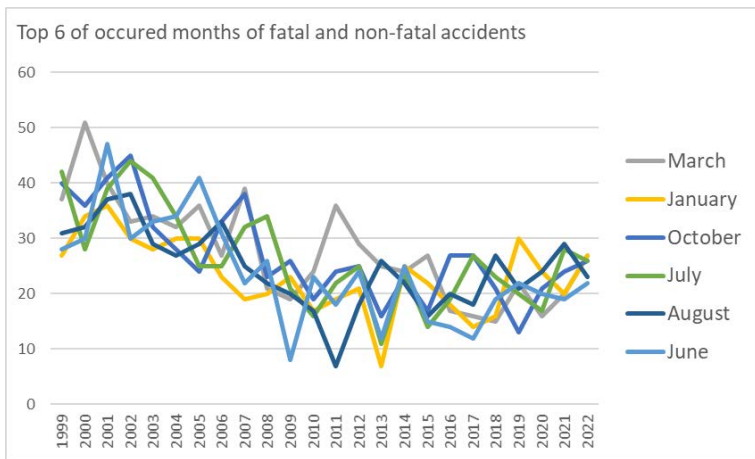
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 050202 port cargo handling service in Japan (1999-2022)



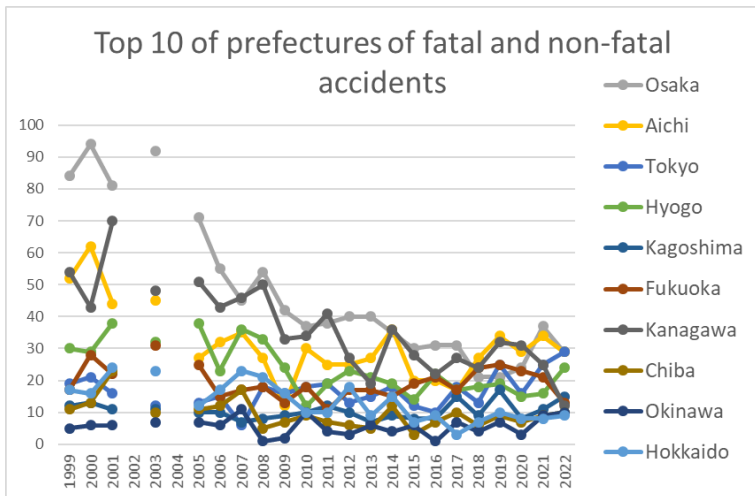
Transition of workers' age groups of fatal and non-fatal accidents in 050202 port cargo handling service in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 050202 port cargo handling service in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 050202 port cargo handling service in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 050202 port cargo handling service in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 050202 port cargo handling service 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	82	102	104	90	83	74	98	83	86	73	70	57	59	65	45	65	64	50	53	56	75	77	67	51	1,729	fall from height
falling to same level	43	35	39	41	35	34	41	40	32	20	22	34	36	29	27	33	20	25	28	30	34	22	35	44	779	falling to same level

reaction to motion/improper motion	33	32	33	30	42	28	23	23	25	25	19	12	20	23	12	24	12	10	17	19	26	19	28	39	574	reaction to motion/improper motion
caught in/between	83	91	98	89	99	95	73	60	65	60	40	54	57	42	38	50	37	41	48	46	45	39	35	33	1,418	caught in/between
struck by flying or falling object	56	45	54	47	39	49	37	31	34	33	22	23	15	21	20	34	19	27	13	23	24	18	24	25	733	struck by flying or falling object
crash	23	32	31	40	32	26	33	21	18	23	16	22	17	16	19	17	17	14	23	16	26	16	25	20	543	crash
crashed by	40	44	37	43	35	36	30	40	33	28	23	23	24	26	24	22	20	21	17	24	14	23	22	17	666	crashed by
collapse	17	18	24	13	12	9	14	18	12	19	6	13	10	9	14	11	10	6	4	5	7	10	7	10	278	collapse
cut	4	10	16	9	12	8	5	10	6	9	8	5	2	4	4	2	5	3	5	4	6	8	7	5	157	cut
traffic accident (public road)	7	5	2	3	2	4	8	3	6	2		7	3	3		2	3	1	14	6	19	5	7	3	115	traffic accident (public road)
injury to the sole of the foot			2	1	2			1	1					1			3	2				1	2	2	18	injury to the sole of the foot
contact to high/low-temperature	6	5	2	3	1	3		2	3	7		5	3	4	1	5	2	5	4	2	3	2	2	1	71	contact to high/low-temperature
others	3	2	3	1		2		1		1		1	3	2				1		2	3	5	14	1	45	others
traffic accident (others)		1	1			1	1		1		1		1	1	1								1	1	11	traffic accident (others)
contact to harmful substance	3	2		3			2	1	3	2			1	2			2			1					22	contact to harmful substance
drown				3	1	1				1			8					1	1				1		17	drown

unclassifiable				1	1			1	1	1									2				7	unclassifiable		
electric shock										1							1	1						3	electric shock	
explosion										1												1		2	explosion	
fire	1																1							2	fire	
burst			1																					1	burst	
total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245	278	252	7,191	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 050202 port cargo handling service 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	117	159	137	131	130	134	113	106	114	106	78	82	82	80	70	77	76	62	87	80	89	74	98	75	2,357	crane, conveying machine
other equipment	77	57	96	71	73	69	70	56	53	55	30	38	42	43	40	51	39	47	43	38	51	49	38	46	1,272	other equipment
temporary buildings, establishments	32	55	53	58	50	43	47	48	53	43	37	52	48	44	31	46	29	29	34	37	52	40	51	46	1,058	temporary buildings, establishments
load	80	81	89	78	64	52	52	58	39	36	46	41	31	40	26	33	35	24	25	37	35	36	31	34	1,103	load
substance, material	61	52	41	55	47	35	55	40	49	42	22	28	26	14	26	35	21	21	19	18	29	20	20	22	798	substance, material
others	25	9	10	8	17	13	11	10	6	4	5	6	8	12	4	14	5	6	5	12	15	14	21	19	259	others
machine	3	8	16	10	11	17	11	14	7	13	8	7	8	8	6	5	5	12	9	8	8	8	13	6	221	machine
environment	6	3	4	6	4	7	7	2	4	5	2	5	14	7	2	4	4	8	6	4	5	4	6	4	123	environment
total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245	278	252	7,191	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 050202 port cargo handling 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	32	55	53	58	50	43	47	48	53	43	37	52	48	44	31	46	29	29	34	37	52	40	51	46	1,058	temporary buildings, establishments
conveying machine	64	89	77	78	76	69	67	63	61	64	48	43	48	54	43	41	48	36	49	59	39	41	70	45	1,372	conveying machine
tools	65	39	74	58	60	55	57	46	40	43	26	25	32	29	35	39	29	36	30	27	33	29	24	35	966	tools
load	80	81	89	78	64	52	52	58	39	36	46	41	31	40	26	33	35	24	25	37	35	36	31	34	1,103	load
materials	57	50	40	52	47	35	54	38	46	39	22	28	25	13	26	34	20	20	19	17	29	20	20	22	773	materials
crane	34	52	41	32	34	41	25	29	32	26	14	20	20	13	15	22	17	21	17	6	16	15	12	18	572	crane
no causal agent	7	2	8	4	10	8	8	5	4	1	3	4	6	8	4	10	3	5	4	8	11	12	8	18	161	no causal agent
vehicle	19	18	19	21	20	24	21	14	21	16	16	19	14	13	12	14	11	5	21	15	34	18	16	12	413	vehicle
human power machine, tools	10	12	12	5	9	12	5	6	8	5	4	9	5	6	2	5	2	2	3	4	11	12	12	7	168	human power machine, tools
other equipments, facilities	2	6	10	7	4	2	7	4	5	6		3	4	7	3	7	8	9	9	6	5	8	1	4	127	other equipments, facilities
natural environment	6	3	4	6	4	7	7	2	4	5	2	5	14	7	2	4	4	8	6	4	5	4	6	4	123	natural environment
construction machine	1	1	6	5	3	8	2	5	3	5	2	5	1	2	4	4	3	5	3	4	2	5	8	3	90	construction machine

temperature environment					1					1	2		4	2	3			2	2	4	2	2	2	2	2	1	32	temperature environment
other general power machines			1		3		1	2	1		1	1	1	4	1				5	1	1	2	2	3	1	31	other general power machines	
excavating machine			3		1			2	1	1		2	1		1	4		2		2	1	1	4	1	27	excavating machine		
machine/equipment as load			6		1			1	1		3	1		2	1	1	1	1		1	1	1		1	23	machine/equipment as load		
scaffolding			2		1		1		1	1		1				1				1	1	1	1	1	13	scaffolding		
power transmission mechanism							2												1	1	1				1	9	power transmission mechanism	
elevator, lift									1		1	1					1		1		1	1		1	8	elevator, lift		
grinding machine, buffing machine			1		1			1							1									1	6	grinding machine, buffing machine		
demolition machine																			1					1	2	demolition machine		
circular sawing machine			3		3		2	2		2	1		2			1		1	1		2		2		22	circular sawing machine		
chain saw			3		1		3	2	1	4	1	1	1				2			1	1				21	chain saw		
loader					1		2	2	1	2	1		1	1			1	1				4	2		19	loader		
other powered crane			2		1		2	1		1		1	1		2	3							1		15	other powered crane		
stone, sand, substance			2					3		1	1					1				1	1		1		11	stone, sand, substance		
water													8						1	1			1		11	water		
other woodworking machines			2							1	2	1		1						1			1		9	other woodworking machines		

unclassifiable					2		1		1			1		1					2				9	unclassifiable	
harmful substance									3	2			1	1					1					8	harmful substance
derrick crane			3						1	1			1	1										7	derrick crane
human power machine					1		2	1											1		1			6	human power machine
roof, beam, haze, crossbeam, principal rafter																								6	roof, beam, haze, crossbeam, principal rafter
other construction machines					1				1													1		5	other construction machines
other metal manufacturing machines								1	1	1													1	4	other metal manufacturing machines
gas welding equipment								1						1									1	4	gas welding equipment
other hazards, harmful substances								1														1	1	4	other hazards, harmful substances
human power cranes			1										1											3	human power cranes
natural ground, rock								1																3	natural ground, rock
abnormal environment								1	1													1		3	abnormal environment
engine																								2	engine
vehicle for high lift																									vehicle for high lift

total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245	278	252	7,191	total
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Transition of workers' age groups of fatal and non-fatal accidents in 050202 port cargo handling 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
50-59	162	163	154	133	113	102	104	98	81	67	45	59	57	50	44	59	34	38	61	55	53	55	68	65	1,920	50-59
40-49	71	71	84	78	61	67	84	58	59	55	59	67	59	61	54	70	65	55	61	58	70	51	67	56	1,541	40-49
30-39	70	77	79	95	101	84	81	63	84	86	51	60	69	48	50	58	46	43	32	46	65	65	62	49	1,564	30-39
20-29	70	68	77	72	73	70	43	63	51	46	25	38	34	50	32	38	38	30	31	42	45	29	49	40	1,154	20-29
60 years old or more	26	40	44	37	39	42	49	44	45	45	44	32	40	35	23	35	27	31	36	26	43	40	28	32	883	60 years old or more
19 years old or less	2	5	8	2	9	5	5	8	5	5	4	3		4	2	5	4	12	7	7	8	5	4	10	129	19 years old or less
total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245	278	252	7,191	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 050202 port cargo handling 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
10-29	92	100	105	115	110	83	77	94	88	76	61	58	51	75	51	66	47	64	51	54	68	62	52	66	1,766	10-29
100-299	96	85	84	71	46	70	93	68	72	70	38	47	70	54	56	73	50	43	44	61	66	54	69	65	1,545	100-299
50-99	108	112	114	103	107	93	94	74	69	58	57	49	51	42	36	50	45	40	46	37	60	52	67	50	1,614	50-99
30-49	41	50	77	62	75	72	60	49	52	62	47	73	51	50	36	41	43	37	58	57	62	57	65	45	1,322	30-49
9 workers or less	39	56	53	48	43	38	34	43	35	28	18	21	24	20	18	30	20	21	22	20	23	15	22	22	713	9 workers or less
300 workers or more	25	21	13	18	15	14	8	6	9	10	7	11	12	7	8	5	9	4	7	5	5	5	3	4	231	300 workers or more
total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245	278	252	7,191	total

Transition of occurred months of fatal and non-fatal accidents in 050202 port cargo handling 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
March	37	51	40	33	34	32	36	27	39	21	19	24	36	29	25	24	27	17	16	15	22	16	20	27	667	March
January	27	34	36	30	28	30	30	23	19	20	23	17	19	21	7	25	22	18	14	16	30	24	20	27	560	January
October	40	36	41	45	32	28	24	33	38	23	26	19	24	25	16	23	17	27	27	21	13	21	24	26	649	October
July	42	28	39	44	41	34	25	25	32	34	21	16	22	25	11	24	14	19	27	23	20	17	28	26	637	July
August	31	32	37	38	29	27	29	33	25	22	20	17	7	18	26	22	16	20	18	27	21	24	29	23	591	August
June	28	30	47	30	33	34	41	31	22	26	8	23	18	24	12	25	15	14	12	19	22	20	19	22	575	June
May	32	43	35	35	43	28	39	31	29	28	18	26	24	22	23	15	27	13	21	23	24	21	27	19	646	May
December	35	37	31	30	45	27	39	24	21	26	19	26	24	20	22	22	16	14	18	22	16	16	22	19	591	December
September	35	30	34	32	30	25	20	32	32	23	17	23	27	19	15	20	14	18	16	19	33	21	26	19	580	September
November	36	26	31	31	25	31	31	25	20	31	20	24	17	10	10	25	16	19	16	15	25	18	22	16	540	November
April	24	48	42	43	35	37	24	25	24	25	22	20	18	19	21	22	17	11	15	15	25	21	23	14	590	April
February	34	29	33	26	21	37	28	25	24	25	15	24	23	16	17	18	13	19	28	19	33	26	18	14	565	February
total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245	278	252	7,191	total

Transition of prefectures of fatal and non-fatal accidents in 050202 port cargo handling 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
Osaka	84	94	81		92		71	55	45	54	42	37	38	40	40	35	30	31	31	21	21	24	37	29	1,032	Osaka
Aichi	52	62	44		45		27	32	35	27	12	30	25	25	27	36	20	20	17	27	34	29	34	29	689	Aichi
Tokyo	19	21	16		12		13	15	6	18	16	18	19	13	15	18	12	10	18	13	25	16	25	29	367	Tokyo
Hyogo	30	29	38		32		38	23	36	33	24	12	19	23	21	19	14	22	17	18	19	15	16	24	522	Hyogo
Kagoshima	12	13	11		11		10	10	7	8	9	10	12	10	7	9	8	8	15	9	17	8	11	15	230	Kagoshima
Fukuoka	17	28	22		31		25	15	17	18	13	18	11	17	17	15	19	21	17	24	25	23	21	13	427	Fukuoka

Kanagawa	54	43	70		48		51	43	46	50	33	34	41	27	19	36	28	22	27	24	32	31	25	12	796	Kanagawa
Chiba	11	13	23		10		11	12	17	5	7	9	7	6	5	12	3	7	10	6	9	7	9	10	209	Chiba
Okinawa	5	6	6		7		7	6	11	1	2	10	4	3	6	4	6	1	7	4	7	3	9	10	125	Okinawa
Hokkaido	17	16	24		23		12	17	23	21	16	10	10	18	9	15	7	9	3	7	10	8	8	9	292	Hokkaido
Hiroshima	22	17	19		11		15	14	20	10	12	9	8	7	8	11	10	16	6	13	12	18	7	7	272	Hiroshima
Miyagi	5	5	9		8		8	7	4	8	3	12	16	11		5	1		1	6	4	4	8	7	132	Miyagi
Shizuoka	11	12	12		9		13	17	13	9	4	11	9	10	5	6	5	5	9	6	7	9	4	6	192	Shizuoka
Fukushima	2		1		1		4	2	2	2	1	4	1	5			1	1	1	3	3	2	2	6	44	Fukushima
Saga								1										1	2	4	1	2	1	6	18	Saga
Nagasaki	2	2	3		2		7	4	1	4	3	5	2	3	4	4	3	4	5	9	11	7	8	5	98	Nagasaki
Ibaraki	2	2	5		7		2	6	2	1	2	3	2	4	1	3	2	2	2	4	1	2	4	5	64	Ibaraki
Niigata	3	6	2		1		3	4	5	2	1	3	1	2	4	8	4	1	2	6	7	4	4	4	77	Niigata
Ehime	4	7	10		6		4	4	4	2	4	1	5	4	3	4	9	3	7	3	8	4	7	3	106	Ehime
Tokushima	2	2			4		2	5	3	1	4	1	2	1	1	2	1		1	1		2	5	3	43	Tokushima
Oita	1	4	1		3		3	1	1				1			2		2	2		2	1	2	3	29	Oita
Kagawa	6	7	5		6		7	9	5	9	3	5	5	2	2	5	10	7	3	7	7	2	6	2	120	Kagawa
Aomori	5	1	1		1		5	3	2	4	2			4	1		3	2	1	1	3	4	2	2	47	Aomori
Fukui	2	1	4		2		2	2	1		2		1	1	1	1		3	4	2	1	1	3	2	36	Fukui
Wakayama	2	3	3				1	1	3		2		2	1	1		2		1		2	3	1	2	30	Wakayama
Yamaguchi	7	5	8		4		7	9	3	6	1	2	4	1		2	2	2	4	2	4	4	4	1	82	Yamaguchi
Okayama	7	3	4		4		6	7	3	1	2	4	4	2	1	3	1	2	1	4	2	1	3	1	66	Okayama
Mie	3	6	3		3		2		3		3			3			4		4	2	2	4	1	1	44	Mie
Kumamoto	3	1	3		2			1	1	2			2		1		1	3	3	2		3	3	1	32	Kumamoto

Ishikawa		2	4		1			2	1	2		2		1	2	4			1	1	2	2	1	1	29	Ishikawa	
Toyama		2	2		3		2		1	1		1	2	3		1	1	1	2	2			1	1	26	Toyama	
Kochi	6	2	2		2		1			2		2				1	2			1	1	1		1	24	Kochi	
Akita	1	2	2		1		2			2	1	2	1			1	3	1	1		1		1	1	23	Akita	
Miyazaki	1	3	4					1	1										1	1			2	1	15	Miyazaki	
Tottori	2				1			4	1		1	2	3	1		2			1	1	2		2		23	Tottori	
Kyoto	1	3	2				2	2			1		1		2	1	1	1	1		2	1			21	Kyoto	
Iwate		1	2		2		2		1		1	1	1		1		1						1		14	Iwate	
Shimane					1		1		1	1	1	1			1			1							8	Shimane	
Yamagata																											Yamagata
Tochigi																											Tochigi
Gunma																											Gunma
Saitama																											Saitama
Yamanashi																											Yamanashi
Nagano																											Nagano
Gifu																											Gifu
Shiga																											Shiga
Nara																											Nara
total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245	278	252	7,191	total	

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