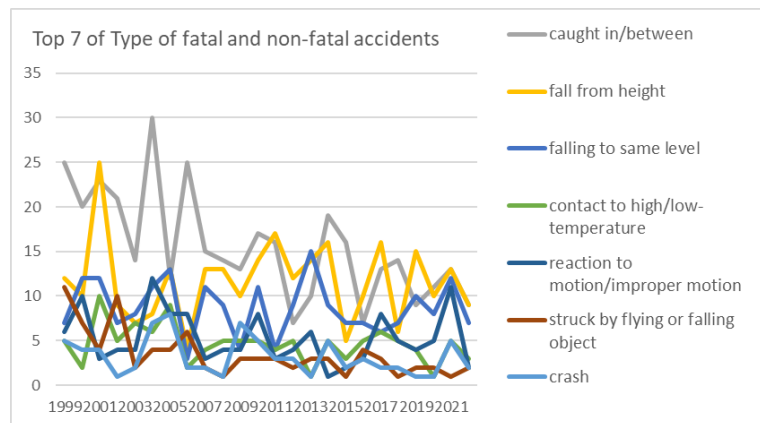
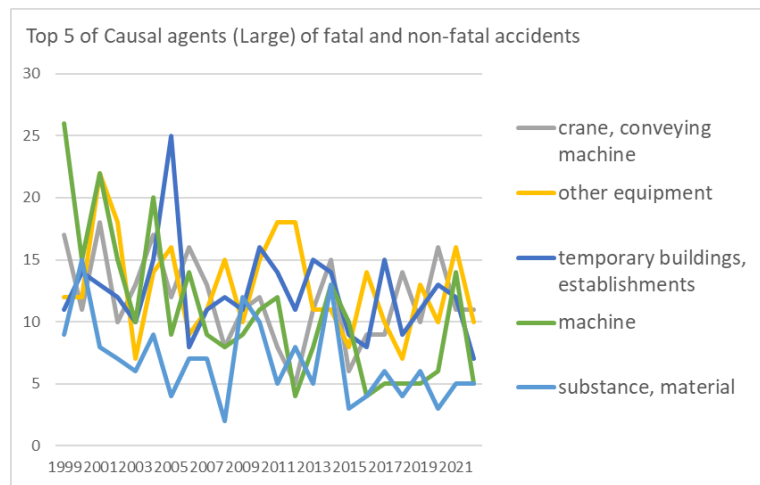


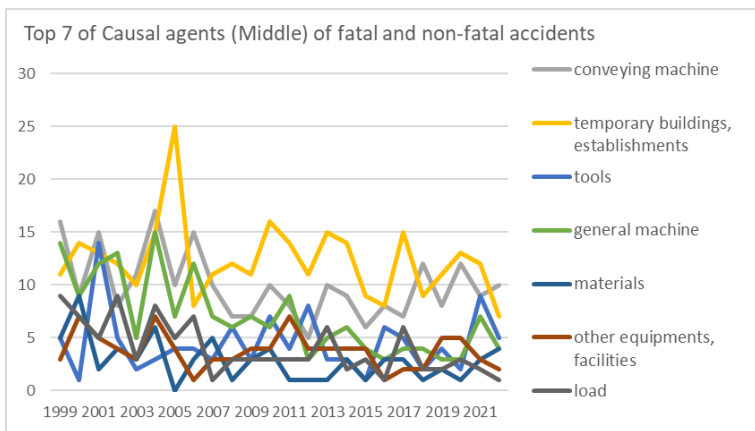
Transition of fatal and non-fatal accidents in 010804 petroleum/coal products in Japan (1999-2022)



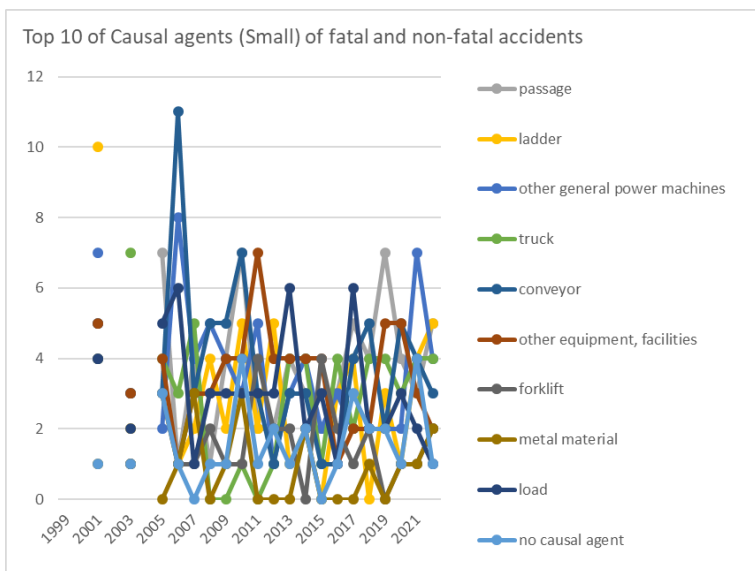
Transition of Top 7 of Type of fatal and non-fatal accidents in 010804 petroleum/coal products in Japan (1999-2022)



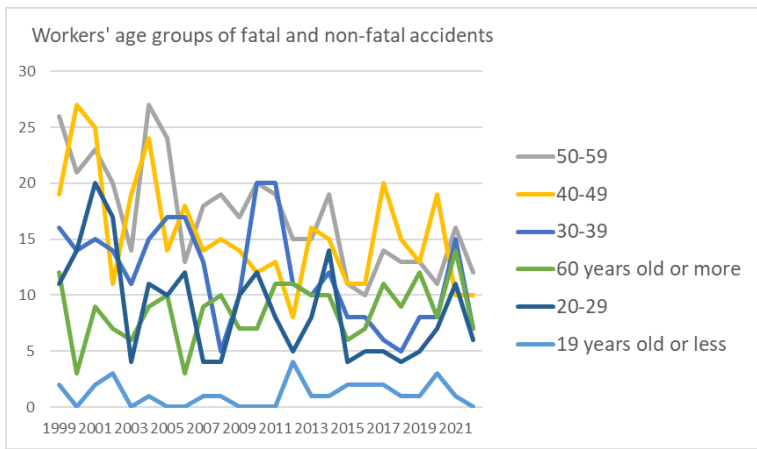
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 010804 petroleum/coal products in Japan (1999-2022)



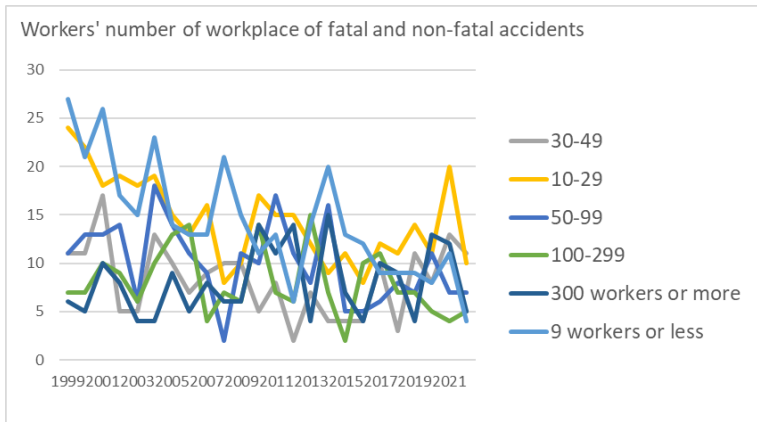
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 010804 petroleum/coal products in Japan (1999-2022)



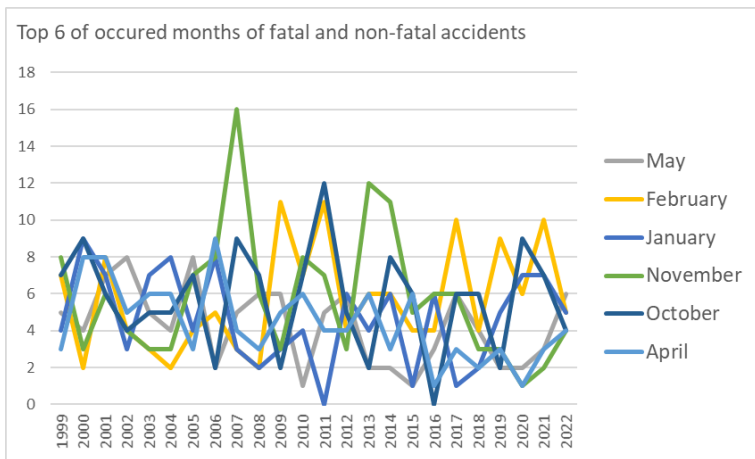
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 010804 petroleum/coal products in Japan (1999-2022)



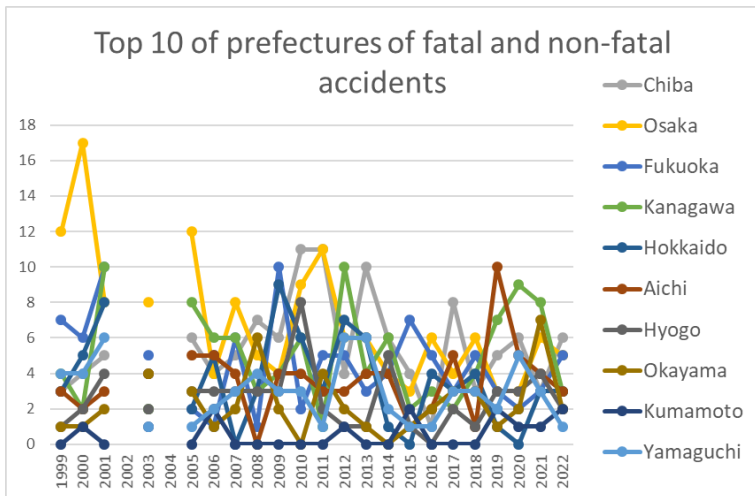
Transition of workers' age groups of fatal and non-fatal accidents in 010804 petroleum/coal products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 010804 petroleum/coal products in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 010804 petroleum/coal products in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 010804 petroleum/coal products in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 010804 petroleum/coal products 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	25	20	23	21	14	30	12	25	15	14	13	17	16	7	10	19	16	7	13	14	9	11	13	9	373	caught in/between
fall from height	12	10	25	9	7	8	13	4	13	13	10	14	17	12	14	16	5	10	16	6	15	10	13	9	281	fall from height

falling to same level	7	12	12	7	8	11	13	3	11	9	4	11	4	9	15	9	7	7	6	7	10	8	12	7	209	falling to same level
contact to high/low-temperature	5	2	10	5	7	6	9	2	4	5	5	5	4	5	1	5	3	5	6	5	4	1	5	3	112	contact to high/low-temperature
reaction to motion/improper motion	6	10	3	4	4	12	8	8	3	4	4	8	3	4	6	1	2	3	8	5	4	5	11	2	128	reaction to motion/improper motion
struck by flying or falling object	11	7	4	10	2	4	4	6	2	1	3	3	3	2	3	3	1	4	3	1	2	2	1	2	84	struck by flying or falling object
crash	5	4	4	1	2	7	8	2	2	1	7	5	3	3	1	5	2	3	2	2	1	1	5	2	78	crash
cut	9	4	4	3	2	5	4	4	2	5	1	2	3	2	2				1			2	3	2	60	cut
crashed by	1	3	5	5	3	1	1	2	1	1	1		5	3	2	3	2	2		2	1	5	2	2	53	crashed by
contact to harmful substance	2	4	2	2	1	2		1	1		1	3		6		9	1	1	1	2	1	1	1	2	44	contact to harmful substance
collapse		1	1	1	2	1		3	2		1				1		2			1		2		1	19	collapse
traffic accident (public road)	1				1			1	1		2	1						1		1		3	1	1	14	traffic accident (public road)
explosion	1			4	1						2		3		4					2					17	explosion
fire			1				1	2			4	2	1				1		1						13	fire
others		1					1								1	1					3	4			11	others
drown		1											8							1					10	drown
injury to the sole of the foot	1								2	1									1						5	injury to the sole of the foot

electric shock														1													1	electric shock	
burst													1															1	burst
traffic accident (others)																						1						1	traffic accident (others)
unclassifiable							1																					1	unclassifiable
total	86	79	94	72	54	87	75	63	59	54	58	71	71	54	60	71	42	43	58	47	52	56	67	42	1,515	total			

Transition of Causal agents (Large) of fatal and non-fatal accidents in 010804 petroleum/coal products 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	17	11	18	10	13	17	12	16	13	8	11	12	8	5	11	15	6	9	9	14	10	16	11	11	283	crane, conveying machine
other equipment	12	12	22	18	7	14	16	9	11	15	10	15	18	18	11	11	8	14	10	7	13	10	16	10	307	other equipment
temporary buildings, establishments	11	14	13	12	10	15	25	8	11	12	11	16	14	11	15	14	9	8	15	9	11	13	12	7	296	temporary buildings, establishments
machine	26	15	22	15	10	20	9	14	9	8	9	11	12	4	8	13	10	4	5	5	5	6	14	5	259	machine
substance, material	9	15	8	7	6	9	4	7	7	2	12	10	5	8	5	13	3	4	6	4	6	3	5	5	163	substance, material
others	1	2	3	1	2	4	3	1	4	3	1	4	1	3	1	2	1	1	4	2	3	5	4	2	58	others
load	9	7	5	9	3	8	5	7	1	3	3	3	3	3	6	2	3	1	6	2	2	3	2	1	97	load
environment	1	3	3		3		1	1	3	3	1		10	2	3	1	2	2	3	4	2		3	1	52	environment
total	86	79	94	72	54	87	75	63	59	54	58	71	71	54	60	71	42	43	58	47	52	56	67	42	1,515	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 010804 petroleum/coal products 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	16	9	15	8	11	17	10	15	10	7	7	10	8	5	10	9	6	8	7	12	8	12	9	10	239	conveying machine
temporary buildings, establishments	11	14	13	12	10	15	25	8	11	12	11	16	14	11	15	14	9	8	15	9	11	13	12	7	296	temporary buildings, establishments
tools	5	1	14	5	2	3	4	4	3	6	3	7	4	8	3	3	1	6	5	2	4	2	9	5	109	tools
general machine	14	9	12	13	5	15	7	12	7	6	7	6	9	3	5	6	4	3	4	4	3	3	7	4	168	general machine
materials	5	9	2	4	3	6		3	5	1	3	4	1	1	1	3	1	3	3	1	2	1	3	4	69	materials
other equipments, facilities	3	7	5	4	3	7	4	1	3	3	4	4	7	4	4	4	4	1	2	2	5	5	3	2	91	other equipments, facilities
load	9	7	5	9	3	8	5	7	1	3	3	3	3	3	6	2	3	1	6	2	2	3	2	1	97	load
hazards, harmful substances	4	6	6	3	3	3	4	4	2	1	9	6	4	7	4	10	2	1	3	3	4	2	2	1	94	hazards, harmful substances
human power machine, tools	2	1	2	2	1	3	6	3	4	2	2	1	3	2	3	1	1	4	3	1	2	2	3	1	55	human power machine, tools
natural environment	1	3	3		3		1	1	3	3	1		10	2	3	1	2	2	3	4	2		3	1	52	natural environment
no causal agent	1	2	1		1	4	3	1		1	1	4	1	2	1	2		1	3	2	2	1	4	1	39	no causal

																							agent				
vehicle	1		3		2			1			4	2			1	5			2	1	2	3	2	1	30	vehicle	
other causal agent			1	1	1					4	2				1			1		1	4		1	18	other causal agent		
kiln, caldron		1		4			1			1	1			1		2	1			1	1	1		1	17	kiln, caldron	
metal manufacturing machine	4	1	2	1		1	1						1					1	1		1			1	15	metal manufacturing machine	
pressure vessel					1		1																	1	3	pressure vessel	
construction machine	4	2	6		3	2		1	2		1	2	1	1	1	5	2				1	3	5		42	construction machine	
power transmission mechanism	2	2	2	1	2	2	1			1	1	3			1	2	4			1			1		26	power transmission mechanism	
chemical facilities	2	2	1	3				1		3		3	3	2		1	1	1		1	1		1		26	chemical facilities	
crane		2		2			2		3	1						1		1		1		1			14	crane	
woodworking machine	2	1						1		1			1		1								1		8	woodworking machine	
electric equipment						1						1			2			2							6	electric equipment	
unclassifiable			1																						1	unclassifiable	
engine																											engine
mobile silviculture machine																											mobile silviculture machine

power transmission mechanism			2	2		1			1	1	3			1	2	4			1			1		19	power transmission mechanism
leveling, transporting or loading machine			5	1				1		1	1	1	1		1	2				1		4		19	leveling, transporting or loading machine
chemical facilities			1				1		3		3	3	2		1	1	1		1	1		1		19	chemical facilities
hand tool			2			2		1	1	1	1	1	2	1			3	1			1	2		19	hand tool
harmful substance				1						1			3		9					1	1			16	harmful substance
high/cold temperature environment			1	1			1		3			2				2		2	2			2		16	high/cold temperature environment
roll machine (except printingroll machine)			1	1		1	1	1		1	2		1	1		1					1			13	roll machine (except printingroll machine)
excavating machine				2			1				1				4						3	1		12	excavating machine
water								1		1		6	1						1			1		11	water
opening							1		1		1	1	2	1			1	1			1			10	opening
injection molding machine			1	2		1		1		1									1	1				8	injection molding machine
other powered conveying machines								1			1	1	1		1					1	2			8	other powered conveying machines
other vehicles				1					1					1	2				1	1		1		8	other vehicles
scaffolding				1				1						2	2				1					7	scaffolding
roof, beam, haze, crossbeam,								1		1					1									4	roof, beam, haze, crossbeam,

principal rafter																										principal rafter
explosive substance												3											1		4	explosive substance
natural ground, rock								2											1	1					4	natural ground, rock
circular sawing machine							1		1			1													3	circular sawing machine
crane							1									1							1		3	crane
elevator, lift								2						1											3	elevator, lift
electric power facilities													2				1								3	electric power facilities
slinging tool												1				1		1							3	slinging tool
inflammable gas							1	1					1												3	inflammable gas
machine/equipment as load			1		1			1																	3	machine/equipment as load
printing machine					1				1																2	printing machine
other powered crane									1														1		2	other powered crane
railway equipment															1	1									2	railway equipment
boiler					1		1																		2	boiler
industrial dryer												1					1								2	industrial dryer
transmission														1				1							2	transmission
human power cranes									1							1									2	human power cranes
human power machine													1				1								2	human power machine

chain saw																					1		1	chain saw			
other woodworking machines														1										1	other woodworking machines		
hardening machine			1																					1	hardening machine		
demolition machine																								1	demolition machine		
other construction machines															1										1	other construction machines	
lathe			1																						1	lathe	
grinding machine, buffing machine																	1								1	grinding machine, buffing machine	
power press																		1							1	power press	
industrial robot								1																	1	industrial robot	
mobile crane								1																	1	mobile crane	
gondola																									1	gondola	
railway vehicle																									1	railway vehicle	
lumber, bamboo																									1	1	lumber, bamboo
unclassifiable			1																							1	unclassifiable
engine																											engine
band sawing machine																											band sawing machine
wood planer machine																											wood planer machine
hollow chisel mortiser, wood																											hollow chisel mortiser, wood

cargo lifting appliance																									cargo lifting appliance	
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway	
simple skyline yarding equipment																									simple skyline yarding equipment	
straddle carrier																									straddle carrier	
rough terrain hauler																									rough terrain hauler	
pressure vessel																									pressure vessel	
gas welding equipment																									gas welding equipment	
arc welding equipment																									arc welding equipment	
other welding equipment																									other welding equipment	
other kiln, caldron																									other kiln, caldron	
other electrical equipment																									other electrical equipment	
timbering																									timbering	
radiation																									radiation	
standing tree																									standing tree	
abnormal environment																									abnormal environment	
total	86	79	94	72	54	87	75	63	59	54	58	71	71	54	60	71	42	43	58	47	52	56	67	42	1,515	total

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
May	5	4	7	8	5	4	8	2	5	6	6	1	5	6	2	2	1	3	6	4	2	2	3	6	103	May
February	7	2	8	4	3	2	4	5	3	2	11	7	11	4	6	6	4	4	10	4	9	6	10	5	137	February
January	4	9	7	3	7	8	4	8	3	2	3	4		6	4	6	1	6	1	2	5	7	7	5	112	January
November	8	3	6	4	3	3	7	8	16	6	3	8	7	3	12	11	5	6	6	3	3	1	2	4	138	November
October	7	9	6	4	5	5	7	2	9	7	2	7	12	5	2	8	6		6	6	2	9	7	4	137	October
April	3	8	8	5	6	6	3	9	4	3	5	6	4	4	6	3	6	1	3	2	3	1	3	4	106	April
March	8	7	10	4	1	9	5	8	7	3	7	7	14	6	4	4	5	3	3	4	3	4	3	3	132	March
June	6	16	6	6	2	17	10	7	3	4	1	9	5	3	4	4		2	1	2	4	4	6	3	125	June
December	4	6	6	10	6	9	3	4	3	3	4	5	1	4	1	4	5	3	6	3	6	1	8	3	108	December
July	10	6	10	12	7	11	11	6	1	8	8	3	3	7	9	11	4	5	6	3	4	7	4	2	158	July
September	14	4	7	7	7	10	5	4	1	7	3	10	1	4	7	5	2	5	4	5	5	9	9	2	137	September
August	10	5	13	5	2	3	8		4	3	5	4	8	2	3	7	3	5	6	9	6	5	5	1	122	August
total	86	79	94	72	54	87	75	63	59	54	58	71	71	54	60	71	42	43	58	47	52	56	67	42	1,515	total

Transition of prefectures of fatal and non-fatal accidents in 010804 petroleum/coal products 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
Chiba	3	4	5		2		6	4	5	7	6	11	11	4	10	6	4	1	8	3	5	6	3	6	120	Chiba
Osaka	12	17	8		8		12	4	8	5	4	9	11	6	6	4	3	6	4	6	3	3	6	5	150	Osaka
Fukuoka	7	6	10		5		2	1	6	1	10	2	5	5	3	4	7	5	3	5	3	2	3	5	100	Fukuoka
Kanagawa	4	2	10		2		8	6	6	3	4	6	1	10	4	6	2	3	2	4	7	9	8	3	110	Kanagawa
Hokkaido	3	5	8		4		2	5		3	9	6	3	7	6	1		4	3	4	1		3	3	80	Hokkaido
Aichi	3	2	3		4		5	5	4		4	4	3	3	4	4	1	2	5	1	10	5	4	3	79	Aichi
Hyogo	1	2	4		2		3	3	3	3	3	8	2	1	1	5	1		2	1	3	3	4	2	57	Hyogo

Okayama	1	1	2		4		3	1	2	6	2		4	2	1		1	2	3	3	1	2	7	2	50	Okayama
Kumamoto		1			1			2						1			2				2	1	1	2	13	Kumamoto
Yamaguchi	4	4	6		1		1	2	3	4	3	3	1	6	6	2	1	1	3	3	2	5	3	1	65	Yamaguchi
Tokyo	6	6	1				3		1	1	2	2	3		1	4			1	2		1	2	1	37	Tokyo
Ibaraki	5	4	3		1			4	1	1		2	1			2	1	2	2	1	2		3	1	36	Ibaraki
Hiroshima	2	3	2		2		1	1					2		1	8	4		1			5	3	1	36	Hiroshima
Mie	4	1	2		3		1	1	1	4		2	2	3	1	2			4	1	2			1	35	Mie
Shizuoka	3	2	2				3		1	1		2			1	1		1	1	2	1		1	1	23	Shizuoka
Nagano	1	1	1				1	1	1	1						1	3	1		1		1	2	1	17	Nagano
Oita		1							1				1			3		2			1	2	1	1	13	Oita
Shiga			1					1	1	1					3	1		1						1	10	Shiga
Saga		1			1						1						1					1		1	6	Saga
Yamanashi																								1	1	Yamanashi
Saitama	4	2	4		4		2	5	3	2	3	4	5	1	2	1		3	2	2			2		51	Saitama
Miyagi	1	1	1		2		1		1	1			6		1	1	2	1		1	1	1			22	Miyagi
Tochigi	1						2	4				1	1	2		1	2			1	1	3	3		22	Tochigi
Kyoto	5	2	2		1		3			2			1			1		1	1	1					20	Kyoto
Niigata	1	1	2		3		4	1	1	2	1	1								1			1		19	Niigata
Wakayama	1	2	2				1	2							2	2	2			2	1		2		19	Wakayama
Gunma	1	2					2	1	2	1		1	1				2		3				1		17	Gunma
Gifu			2		1			1	1		1	1	1	1	1	1		1	1		2				15	Gifu
Ehime		1	1						1	1	1		1	1	1	2		2			1	1	1		15	Ehime
Kagawa			1				2	1				1	1			2	1	1	2			2			14	Kagawa

Kagoshima	1	1	2				1	1						1		1	1			1		2			12	Kagoshima	
Fukushima	1		2		2			1				2						2								10	Fukushima
Nara	1		1				2		1		1		1					1	1		1					10	Nara
Iwate	1		1											1	2	1	1				1					8	Iwate
Okinawa	1	2	1				1	1	1											1						8	Okinawa
Aomori	3	1										1						1	1							7	Aomori
Akita									2	1		1	2		1											7	Akita
Toyama					1		2			1	1		1			1										7	Toyama
Nagasaki			2						1	1	1							1					1			7	Nagasaki
Ishikawa	2	1						2						1												6	Ishikawa
Miyazaki									1		1				1			2								5	Miyazaki
Fukui			2									1			1											4	Fukui
Tottori	2							1							1											4	Tottori
Yamagata										1						1						1				3	Yamagata
Shimane															1		1			1						3	Shimane
Tokushima	1							1																		2	Tokushima
Kochi							1																			1	Kochi
total	86	79	94	72	54	87	75	63	59	54	58	71	71	54	60	71	42	43	58	47	52	56	67	42	1,515	total	

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