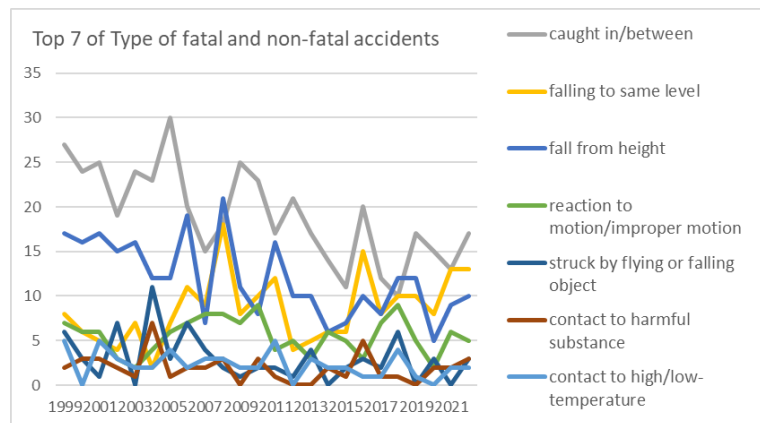
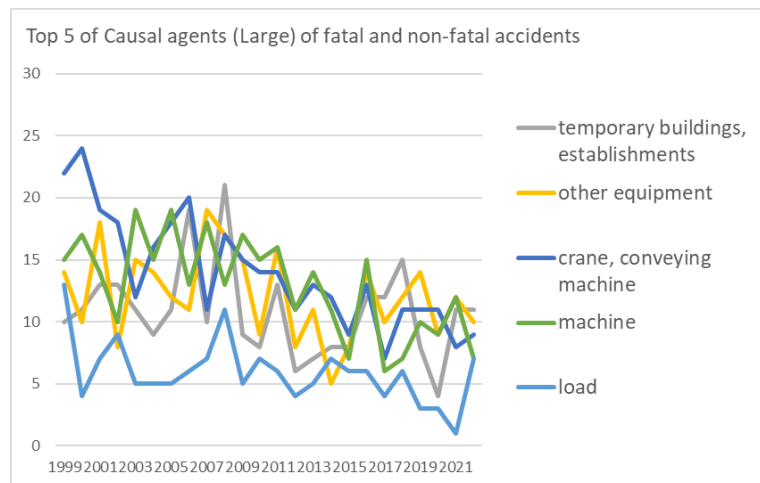


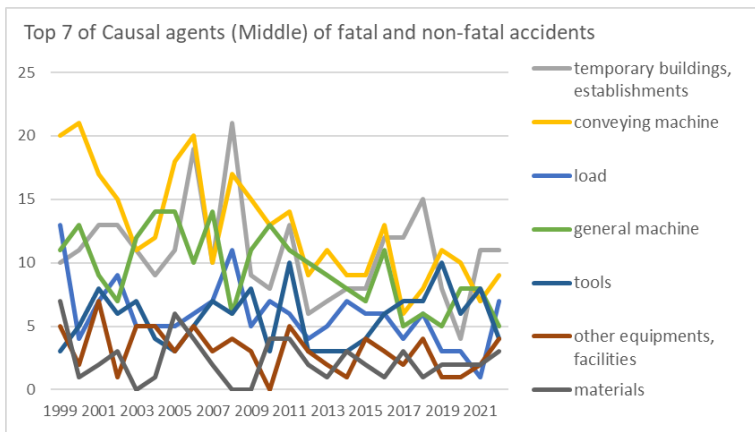
Transition of fatal and non-fatal accidents in 010809 chemical fertilizer products in Japan (1999-2022)



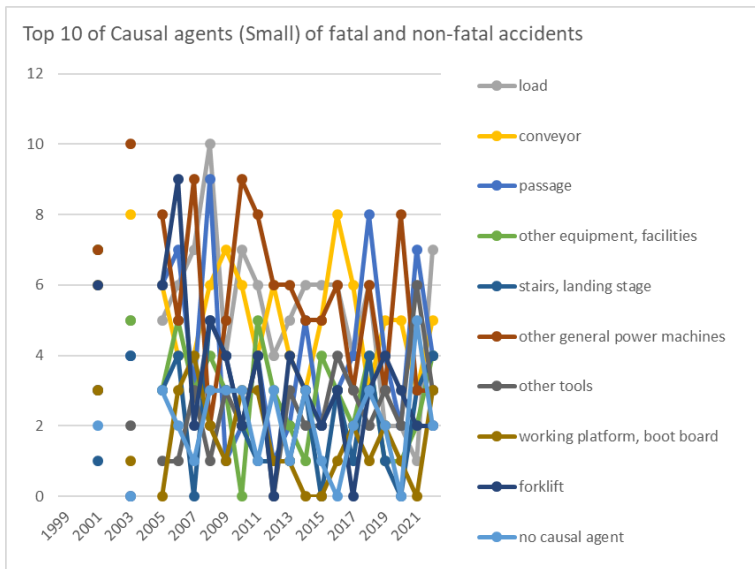
Transition of Top 7 of Type of fatal and non-fatal accidents in 010809 chemical fertilizer products in Japan (1999-2022)



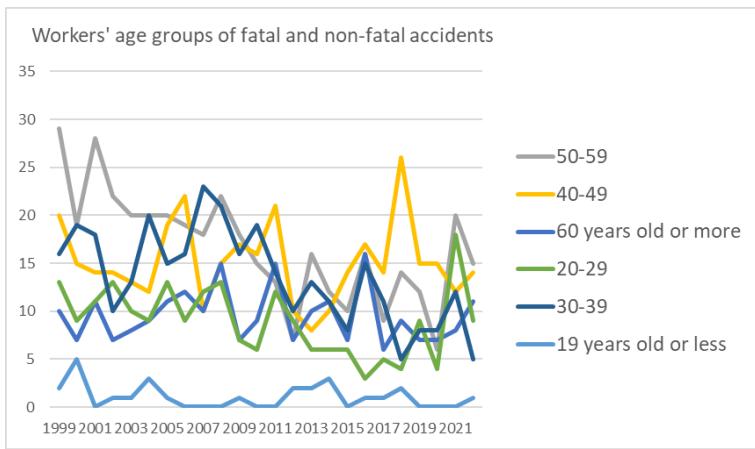
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 010809 chemical fertilizer products in Japan (1999-2022)



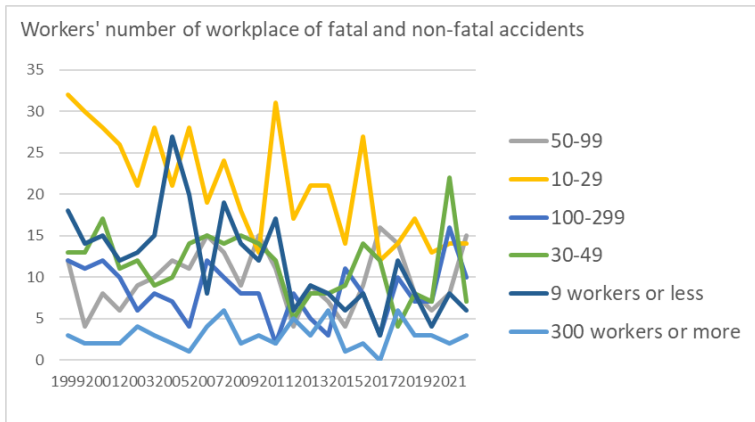
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 010809 chemical fertilizer products in Japan (1999-2022)



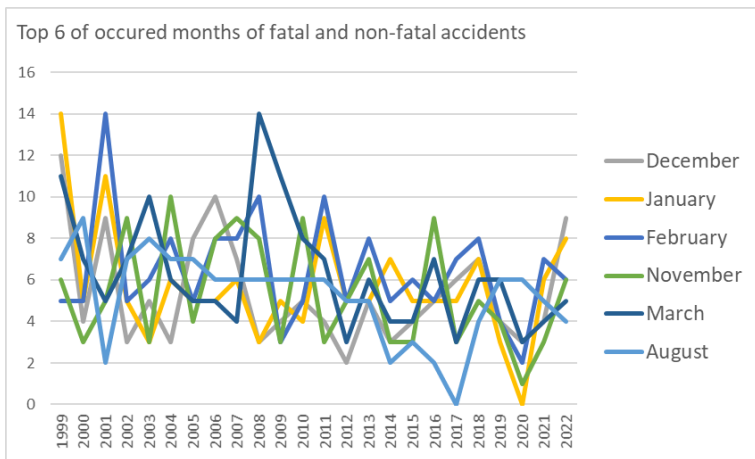
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 010809 chemical fertilizer products in Japan (1999-2022)



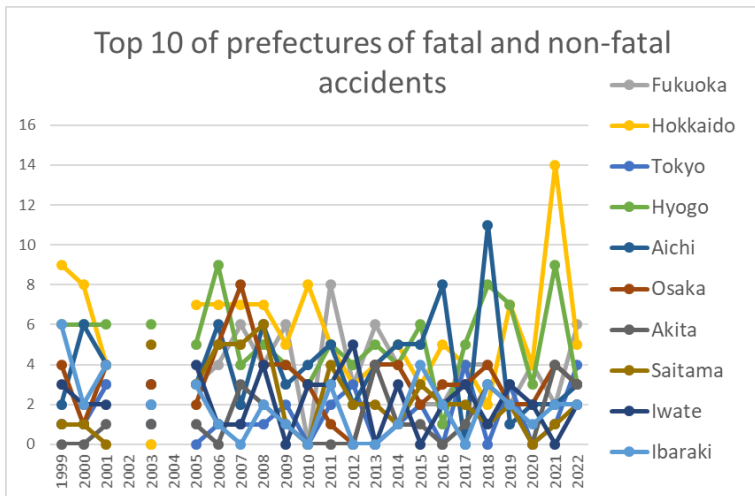
Transition of workers' age groups of fatal and non-fatal accidents in 010809 chemical fertilizer products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 010809 chemical fertilizer products in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 010809 chemical fertilizer products in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 010809 chemical fertilizer products in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 010809 chemical fertilizer 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	27	24	25	19	24	23	30	20	15	18	25	23	17	21	17	14	11	20	12	10	17	15	13	17	457	caught in/between
falling to same level	8	6	5	4	7	2	7	11	9	18	8	10	12	4	5	6	6	15	8	10	10	8	13	13	205	falling to same level

drown		1																								1	drown	
unclassifiable		1																									1	unclassifiable
burst																												burst
traffic accident (others)																												traffic accident (others)
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561	total		

Transition of Causal agents (Large) of fatal and non-fatal accidents in 010809 chemical fertilizer 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
temporary buildings, establishments	10	11	13	13	11	9	11	19	10	21	9	8	13	6	7	8	8	12	12	15	8	4	11	11	260	temporary buildings, establishments
other equipment	14	10	18	8	15	14	12	11	19	17	15	9	16	8	11	5	8	14	10	12	14	9	12	10	291	other equipment
crane, conveying machine	22	24	19	18	12	16	18	20	11	17	15	14	14	11	13	12	9	13	7	11	11	11	8	9	335	crane, conveying machine
machine	15	17	14	10	19	15	19	13	18	13	17	15	16	11	14	11	7	15	6	7	10	9	12	7	310	machine
load	13	4	7	9	5	5	5	6	7	11	5	7	6	4	5	7	6	6	4	6	3	3	1	7	142	load
substance, material	8	4	6	6	2	10	7	6	6	3		7	5	2	4	6	4	5	3	3	2	4	4	5	112	substance, material
others	4	4	4	2		2	4	2	1	3	4	4	1	3	1	3	1		2	4	2		20	3	74	others
environment	4		1	1	1	2	3	1	1	1	1	1	4			1	2	3	2	2	1		2	3	37	environment
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561	total

tools	2	2	2	1	2	4	3		5	3	3	2	1		3	1		1			3	1		1	40	machine, tools
other causal agent	3	2	1	1		2	1				1	1							1			15	1	29	other causal agent	
metal manufacturing machine	1		1				1	1	2	4	3		1		1	1		2			1		1	1	21	metal manufacturing machine
construction machine	2		2	2	2						2	1	1			2					1		1	1	17	construction machine
chemical facilities	1	1			1				1	1							3		1				1	10	chemical facilities	
power transmission mechanism	1	2	1	1	2		2		1	3		1	2	1	4			2			2	1	2		28	power transmission mechanism
vehicle	1	2	2	2	1	3			1					1	2	1			1	3			1		21	vehicle
kiln, caldron	2		1				1	1	1	2	1	3		1	1							1	1		16	kiln, caldron
woodworking machine		2			2	1	2	2	1		1		1							1	1				14	woodworking machine
crane	1	1		1		1						1		1		2						1			9	crane
pressure vessel							2		1	1				1	1								1		7	pressure vessel
electric equipment									1				1										1		4	electric equipment
engine			1		1																		1		3	engine
welding equipment	1					1												1							3	welding equipment
unclassifiable			1																						1	unclassifiable

hauling equipment			1		1		2		4		3	2							2					16	hauling equipment
other temporary buildings, establishments					1				3	2				2				3	3	1	1			16	other temporary buildings, establishments
cars, bus, motorcycle			2		1					1			1	2	1			1	3			1		13	cars, bus, motorcycle
hand tool			1		1		1		1	3			1		2	1		1				1		13	hand tool
circular sawing machine					1		2	1	1											1				7	circular sawing machine
high/cold temperature environment							2										1			1	1		1	7	high/cold temperature environment
grinding machine, buffing machine										2	1							2					1	6	grinding machine, buffing machine
other powered conveying machines							1	1			1								1			1		6	other powered conveying machines
kiln, caldron									1	2				1							1			5	kiln, caldron
industrial dryer							1				1	1			1							1		5	industrial dryer
machine/equipment as load										1	1										1	1		5	machine/equipment as load
other metal manufacturing machines			1						1	1														4	other metal manufacturing machines
injection molding machine					1		1	1															1	4	injection molding machine

wood planer machine									1														1	wood planer machine			
chain saw																			1					1	chain saw		
excavating machine														1										1	excavating machine		
drill press, milling machine														1										1	drill press, milling machine		
shearing machine										1														1	shearing machine		
centrifugal machine											1													1	centrifugal machine		
mobile crane														1										1	mobile crane		
other powered crane																							1		1	other powered crane	
arc welding equipment																1									1	arc welding equipment	
transmission																		1							1	transmission	
other electrical equipment													1												1	other electrical equipment	
inflammable substance																1									1	inflammable substance	
inflammable gas											1														1	inflammable gas	
standing tree																									1	standing tree	
unclassifiable			1																						1	unclassifiable	
band sawing machine																											band sawing machine
hollow chisel mortiser, wood																											hollow chisel mortiser, wood

elevator, lift																										elevator, lift	
cargo lifting appliance																											cargo lifting appliance
gondola																											gondola
lumberyard equipment, logging cableway																											lumberyard equipment, logging cableway
simple skyline yarding equipment																											simple skyline yarding equipment
railway equipment																											railway equipment
straddle carrier																											straddle carrier
rough terrain hauler																											rough terrain hauler
railway vehicle																											railway vehicle
other vehicles																											other vehicles
gas welding equipment																											gas welding equipment
other welding equipment																											other welding equipment
human power machine																											human power machine
timbering																											timbering
radiation																											radiation
stone, sand, substance																											stone, sand, substance
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561	total	

Transition of workers' age groups of fatal and non-fatal accidents in 010809 chemical fertilizer products 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	29	19	28	22	20	20	20	19	18	22	18	15	13	7	16	12	10	16	9	14	12	6	20	15	400	50-59
40-49	20	15	14	14	13	12	19	22	10	15	17	16	21	10	8	10	14	17	14	26	15	15	12	14	363	40-49
60 years old or more	10	7	11	7	8	9	11	12	10	15	7	9	15	7	10	11	7	16	6	9	7	7	8	11	230	60 years old or more
20-29	13	9	11	13	10	9	13	9	12	13	7	6	12	9	6	6	6	3	5	4	9	4	18	9	216	20-29
30-39	16	19	18	10	13	20	15	16	23	21	16	19	14	10	13	11	8	15	11	5	8	8	12	5	326	30-39
19 years old or less	2	5		1	1	3	1				1			2	2	3		1	1	2				1	26	19 years old or less
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 010809 chemical fertilizer products 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
50-99	12	4	8	6	9	10	12	11	15	13	9	15	11	4	9	7	4	9	16	14	8	6	8	15	235	50-99
10-29	32	30	28	26	21	28	21	28	19	24	18	13	31	17	21	21	14	27	12	14	17	13	14	14	503	10-29
100-299	12	11	12	10	6	8	7	4	12	10	8	8	2	8	5	3	11	8	3	10	7	7	16	10	198	100-299
30-49	13	13	17	11	12	9	10	14	15	14	15	14	12	5	8	8	9	14	12	4	8	7	22	7	273	30-49
9 workers or less	18	14	15	12	13	15	27	20	8	19	14	12	17	6	9	8	6	8	3	12	8	4	8	6	282	9 workers or less
300 workers or more	3	2	2	2	4	3	2	1	4	6	2	3	2	5	3	6	1	2		6	3	3	2	3	70	300 workers or more
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561	total

Transition of occurred months of fatal and non-fatal accidents in 010809 chemical fertilizer products 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
December	12	4	9	3	5	3	8	10	7	3	4	5	4	2	5	3	4	5	6	7	4	3	4	9	129	December
January	14	5	11	5	3	6	5	5	6	3	5	4	9	5	5	7	5	5	5	7	3		6	8	137	January
February	5	5	14	5	6	8	5	8	8	10	3	5	10	5	8	5	6	5	7	8	4	2	7	6	155	February
November	6	3	5	9	3	10	4	8	9	8	3	9	3	5	7	3	3	9	3	5	4	1	3	6	129	November
March	11	7	5	7	10	6	5	5	4	14	11	8	7	3	6	4	4	7	3	6	6	3	4	5	151	March
August	7	9	2	7	8	7	7	6	6	6	6	6	6	5	5	2	3	2		4	6	6	5	4	125	August
April	5	10	6	7	5	5	10	7	7	8	8	5	8	5	3	3	2	9	5	2	8	2	12	3	145	April
June	8	7	9	4	5	5	3	8	7	7	8	5	3	5	1	4	4	6	3	3	4	8	5	3	125	June
September	3	5	3	4	5	8	10	7	7	9	6	4	6	2	2	6	1	4	3	3	6	4	5	3	116	September
May	10	2	6	6	6	3	7	6	3	6	6	5	4	2	4	2	4	3	3	6	3	3	11	3	114	May
July	3	6	7	6	4	3	6	6	3	5	3	5	7	4	2	3	5	3	5	2		3	3	3	97	July
October	6	11	5	4	5	9	9	2	6	7	3	4	8	2	7	11	4	10	3	7	3	5	5	2	138	October
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561	total

Transition of prefectures of fatal and non-fatal accidents in 010809 chemical fertilizer 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
Fukuoka	1	1	3				3	4	6	4	6		8	3	6	4	2	2	4	4	2	4	2	6	75	Fukuoka
Hokkaido	9	8	4				7	7	7	7	5	8	5	3	4	5	3	5	4	2	7	4	14	5	123	Hokkaido
Tokyo	1	1	3		1			1	1	1	2		2	3		1	2		4		3		1	4	31	Tokyo
Hyogo	6	6	6		6		5	9	4	5	4	3	5	4	5	4	6	1	5	8	7	3	9	3	114	Hyogo
Aichi	2	6	4		3		3	6	2	6	3	4	5	2	4	5	5	8		11	1	2	2	3	87	Aichi
Osaka	4	1	4		3		2	5	8	4	4	3	1		4	4	2	3	3	4	2	2	4	3	70	Osaka
Akita			1		1		1		3	2	1				4	1	1		1	3	2		4	3	28	Akita

Saitama	1	1			5		3	5	5	6	1		4	2	2	1	3	2	2	1	2		1	2	49	Saitama
Iwate	3	2	2		2		4	1	1	4		3	3	5		3		2	3	1	3	2		2	46	Iwate
Ibaraki	6	2	4		2		3	1		2	1		3			1	4	2		3	2	1	2	2	41	Ibaraki
Chiba	1		6		1		5	1	1	5		1	1	1	1	2	1	3		4		5		2	41	Chiba
Okayama	2	2	2				1	2		4		2	2	2	1	1	1	5	3	1	1	3	2	2	39	Okayama
Yamaguchi	4	2	2		3		1		1	1	6	6	1	1	2			3	3				1	2	39	Yamaguchi
Tochigi	1						2			2	1		4	2		2		2	1		1		1	2	21	Tochigi
Mie		3	7		1		6	1	4	2	1	5	2	1	2	3		3	1				3	1	46	Mie
Gifu	4	2	1		3		2	3	5	1		3	4				1	2				1		1	33	Gifu
Fukushima	1	1	5		4			5	2		3	3			1		1	2	1	2				1	32	Fukushima
Oita	6	4	2				1	1		1	2	1	1	1	1		1			3			3	1	29	Oita
Hiroshima	1	1	1		5		1	2		2	2	2	1	1			1	1	1		3			1	26	Hiroshima
Kumamoto	3	1	1		1			2	1	2	1	2	3			2		3		1			2	1	26	Kumamoto
Gunma	3	4	1				1	1	1		2		1		2			2	1	2		1	2	1	25	Gunma
Miyagi	3	1					1		2		1	2	1		1		2	2	2	1	1	1	1	1	23	Miyagi
Miyazaki		1	2				1		1	2										2	1	2	2	1	15	Miyazaki
Ehime									1	2	2	2			1		2						1	1	12	Ehime
Ishikawa	1	2							1						1			3		1				1	10	Ishikawa
Saga		3	1		2		2	1																1	10	Saga
Yamagata	1	1			1		1		1			1								1		1	1	1	9	Yamagata
Shimane					1				1	1										1		1	1	1	6	Shimane
Kanagawa	7	1	1		4		6	2	1	5	2	3	4	3	3	1		2	1			1	1		48	Kanagawa
Shizuoka	3	5	5		3		3	2	1	2	2				1	2		1	1	1	3	1	2		38	Shizuoka

Toyama	2	3			1		2	2	3	4	3	2	4	4		1		2			1	1			35	Toyama
Tokushima	2	3	2					3	1	1		1	2	1	2	1		1	3	2	1	2	2		30	Tokushima
Niigata	4		2					1	2	1		1	2	2		3	1	1		1		1	1		23	Niigata
Kagawa	2	1	1		1		5	2	1		2		2	1	1										19	Kagawa
Shiga		1			1		1		2		3	1	1	1	1		2		1			1			16	Shiga
Yamanashi	1				1		1		1	3	2	1				1		2				1	1		15	Yamanashi
Kagoshima			1					1	2		1		1		1	2	2	1			2		1		15	Kagoshima
Wakayama	2		1		1			1		1	1	4								1	2				14	Wakayama
Nara		1	1		2		1	1							3				1			1			11	Nara
Aomori	2	1	1							1	1									1	1		2		10	Aomori
Kyoto			1		5		2														1				9	Kyoto
Kochi	1		1					1		1			1	1	1	1									8	Kochi
Okinawa		1						1					1			2	1	1							7	Okinawa
Nagano		1	1				1			1		1						1							6	Nagano
Nagasaki			2		1			1						1									1		6	Nagasaki
Fukui								2									1								3	Fukui
Tottori							1				1														2	Tottori
total	90	74	82	67	65	73	79	78	73	86	66	65	75	45	55	53	45	68	46	60	51	40	70	55	1,561	total

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