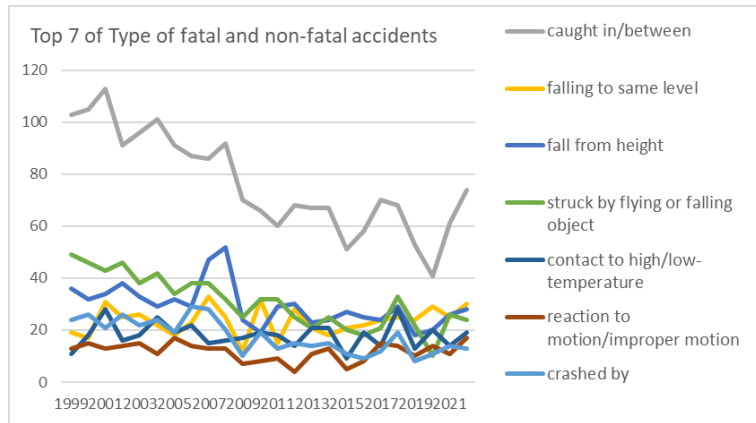
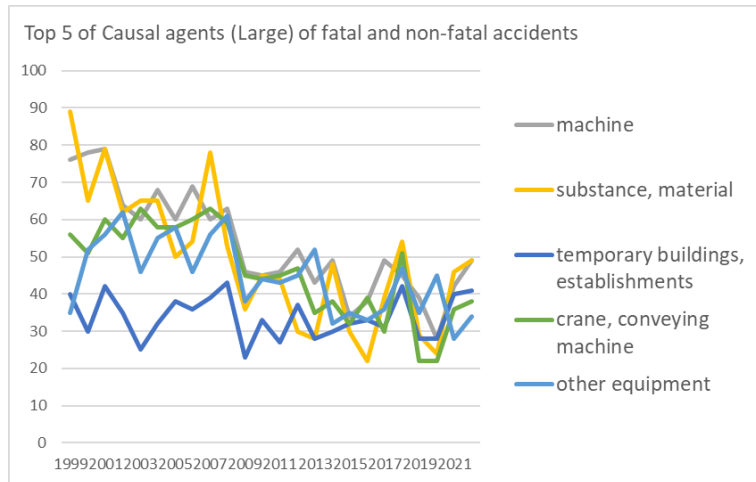


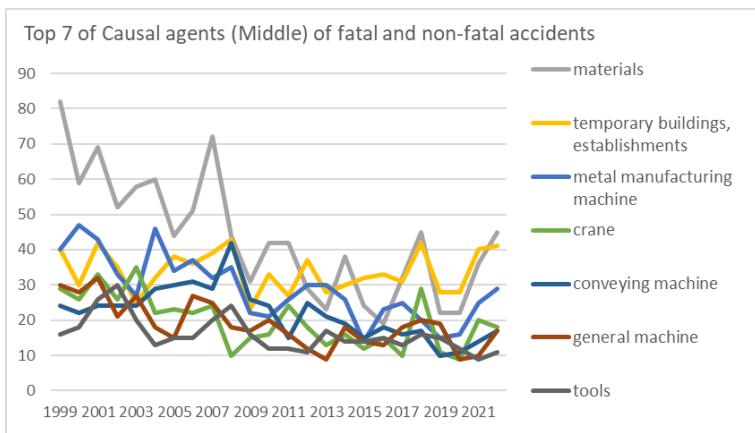
Transition of fatal and non-fatal accidents in 011001 steel/iron/rolling products in Japan (1999-2022)



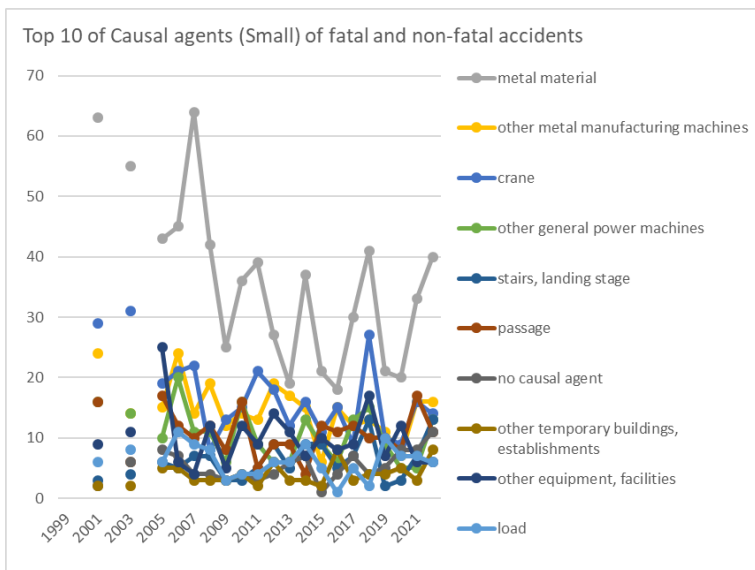
Transition of Top 7 of Type of fatal and non-fatal accidents in 011001 steel/iron/rolling products in Japan (1999-2022)



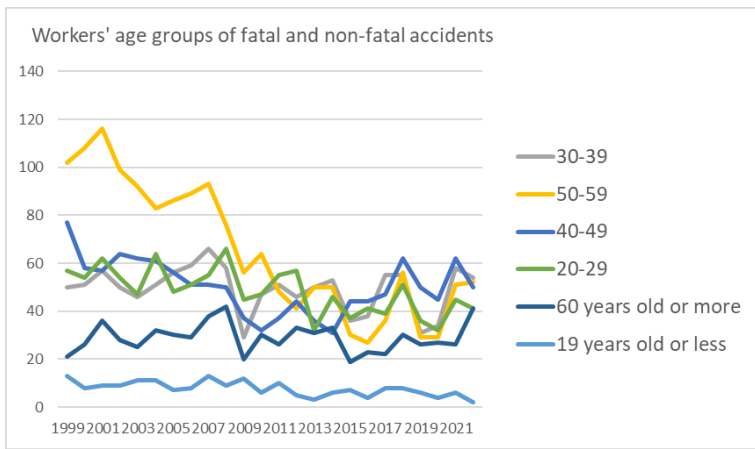
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 011001 steel/iron/rolling products in Japan (1999-2022)



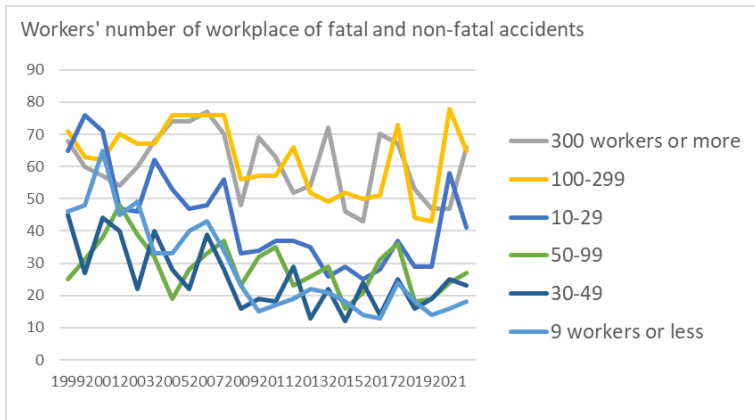
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 011001 steel/iron/rolling products in Japan (1999-2022)



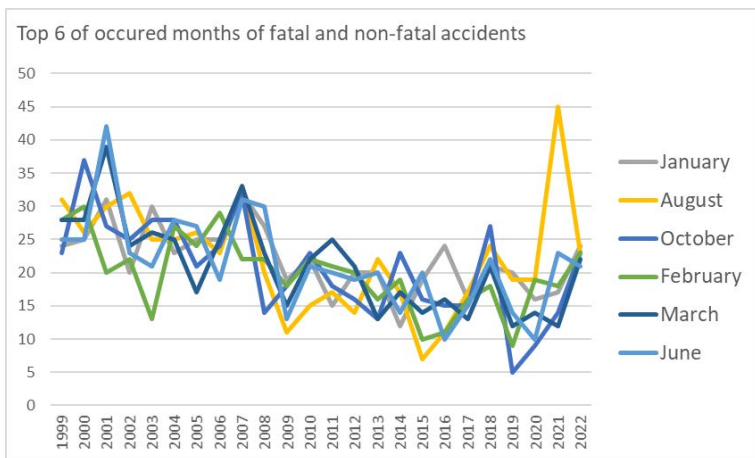
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 011001 steel/iron/rolling products in Japan (1999-2022)



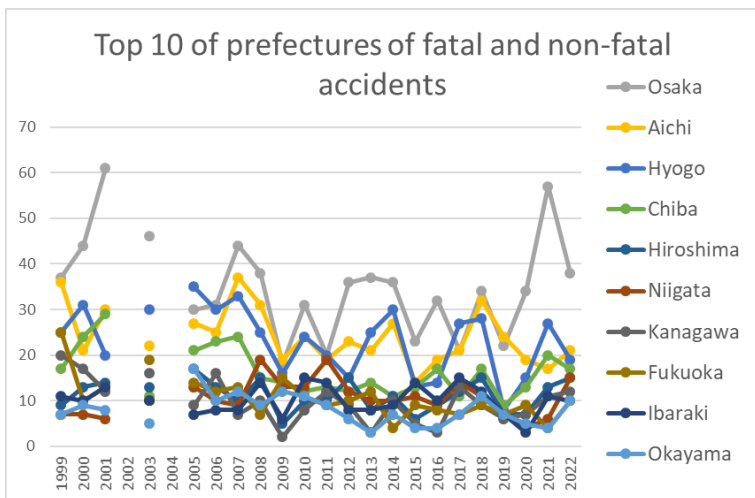
Transition of workers' age groups of fatal and non-fatal accidents in 011001 steel/iron/rolling products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 011001 steel/iron/rolling products in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 011001 steel/iron/rolling products in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 011001 steel/iron/rolling products in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 011001 steel/iron/rolling 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	103	105	113	91	96	101	91	87	86	92	70	66	60	68	67	67	51	58	70	68	53	41	61	74	1,839	caught in/between
falling to same level	19	17	31	25	26	22	18	23	33	25	12	32	15	28	21	18	21	22	24	25	24	29	25	30	565	falling to same level

facilities	6	15	9	12	11	10	25	6	4	12	5	12	9	14	11	7	10	8	9	17	7	12	6	6	243	equipments, facilities
human power machine, tools	5	8	9	10	5	13	6	7	17	11	5	6	8	9	8	4	6	2	5	6	5	8	8	5	176	human power machine, tools
hazards, harmful substances	7	6	10	10	7	5	6	3	6	9	5	3	2	1	5	10	6	3	7	9	7	2	10	4	143	hazards, harmful substances
welding equipment	1	4	5	3		6	7	5	4	4	3	3	3	3	3	3		1		2	1	2	1	4	68	welding equipment
vehicle	3	3	3	5	4	7	5	7	10	7	4	4	6	4	1	3	5	6	4	5	1	2	2	3	104	vehicle
other causal agent	3	6	3	3	7	7		1	3	2	1	1	2	3		1	2		2	5	2	3	37	2	96	other causal agent
construction machine	1	1		3	3	3	4	1	1	4	5	3	1	4	1	1	2	1	2		1	2	1	2	47	construction machine
power transmission mechanism	4	1	1	6	3		6	3	2	5	1	1	3	6	2	2	3	1	4	4	3		5	1	67	power transmission mechanism
electric equipment	2	1	1	1	3	4	1	1	1	1		2	4		1	2	1	1		3		1	1	1	33	electric equipment
unclassifiable																1		1			2			1	5	unclassifiable
woodworking machine	1		2	1		1	1			1	1				1	1	1			1		1	1		14	woodworking machine
pressure vessel							2		1				1	1	1					1					7	pressure vessel
engine		1	1					1								1					1				5	engine
chemical facilities					2									2									1		5	chemical

																										facilities
mobile silviculture machine																										mobile silviculture machine
total	320	305	337	304	283	302	283	287	316	301	199	226	227	226	202	219	173	177	207	262	178	171	248	240	5,993	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 011001 steel/iron/rolling products 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
metal material			63		55		43	45	64	42	25	36	39	27	19	37	21	18	30	41	21	20	33	40	719	metal material
other metal manufacturing machines			24		14		15	24	14	19	12	14	13	19	17	15	6	15	12	13	11	7	16	16	296	other metal manufacturing machines
crane			29		31		19	21	22	8	13	15	21	18	12	16	11	15	9	27	10	9	16	14	336	crane
other general power machines			16		14		10	20	11	11	6	16	9	6	6	13	9	6	13	15	9	5	5	13	213	other general power machines
stairs, landing stage			3		4		6	5	7	7	3	3	5	9	5	9	9	5	7	13	2	3	7	13	125	stairs, landing stage
passage			16		6		17	12	10	12	8	16	5	9	9	4	12	11	12	10	10	8	17	11	215	passage
no causal agent			2		6		8	7	4	4	3	4	3	4	6	7	1	4	7	4	5	8	8	11	106	no causal agent
other temporary buildings, establishments			2		2		5	5	3	3	3	4	2	6	3	3	2	8	3	4	4	5	3	8	78	other temporary buildings, establishments
other equipment, facilities			9		11		25	6	4	12	5	12	9	14	11	7	10	8	9	17	7	12	6	6	200	other equipment, facilities
load			6		8		6	11	9	8	3	4	4	6	6	9	5	1	5	2	10	7	7	6	123	load
kiln, caldron			6		5		2	11	8	8	8	9	5	5	10	2	4	4	7	2	7	9	3	6	121	kiln, caldron

crane			2		2		3		1	1			1					1	1		2	3	18	crane		
other causal agent			3		7			1	3	2	1	1	2	3		1	2		2	5	2	3	37	2	77	other causal agent
harmful substance			3		2		4	1		4	1	1	1		2	2	2		3		5	1	2	2	36	harmful substance
gas welding equipment			4				4	2	3	1	2	1	3	1	1	1		1			1	1	2	2	29	gas welding equipment
drill press, milling machine			2		2		2	3		1	1	1	2		1	1	2				1		1	2	22	drill press, milling machine
leveling, transporting or loading machine					1		2			2	2	1		4	1	1	1		2			1	1	2	21	leveling, transporting or loading machine
abnormal environment							1	1						1									2	6	abnormal environment	
other tools			5		5		8	5	4	7	6	4	4	6	6	4	7	7	1	7	5	6	3	1	101	other tools
power transmission mechanism			1		3		6	3	2	5	1	1	3	6	2	2	3	1	4	4	3		5	1	56	power transmission mechanism
other powered conveying machines			1		2		1	8	3	4	2	3		5	4	2	3	2	4	3		1	4	1	53	other powered conveying machines
opening			3		2		2	1	4	3	2	2	5	4	1	1	3	2	1	3	1	1	2	1	44	opening
human power hauling equipment					2		1	2	5	3	2	1	3	1	5	3	1	1	1	3	1	3	4	1	43	human power hauling equipment
other hazards, harmful substances			4		3		1	1		1	1	1		1	2		1	1	1	8	2	1	2	1	32	other hazards, harmful substances
machine/equipment as load			2		2		2		2	4	1		1				1	1	3	2	2		1	1	25	machine/equipment as load
inflammable gas			2		1				5	3			1		1	7			2	1			1	24	inflammable gas	

lumber, bamboo					1		1	1	1	1	1	2	1		2	1	1		1	1		1	1	1	18	lumber, bamboo
other environments			5						2			2	1		1	1			1	1		2	1	1	18	other environments
arc welding equipment							2	3	1	1	1	2		1	2	2						1		1	17	arc welding equipment
mobile crane			2		1		1		1	1	2	1	1		1				1	1			2	1	16	mobile crane
other kiln, caldron								1	1	1			1		1			2	1					1	9	other kiln, caldron
human power machine			1					1	1	1			1			2				1				1	9	human power machine
other welding equipment			1				1			2				1						1	1			1	8	other welding equipment
stone, sand, substance								2	1											1				1	5	stone, sand, substance
unclassifiable															1		1			2			1	5	unclassifiable	
transmission					1				1				1										1	4	transmission	
shearing machine			1		2		2	1	2	2	1		1		3	3	1	1	2			1			23	shearing machine
railway equipment			2					1	2	3		2		2	3	2		2	1			1			21	railway equipment
lathe			2		1		1	1	2	2	2		2		2	2	1	1				1			20	lathe
mixer, grinder			1		3		2	1	2		1			1		1			1	3		1			17	mixer, grinder
inflammable substance			1		1		1	1	1	1	3	1			1	1	2						2		16	inflammable substance
scaffolding							1	2	2	1	1		1	1	1		1		3						14	scaffolding
excavating machine					1		2		1	2	1	2	1				1				1				12	excavating machine
electric power facilities			1		1			1		1		1			1	1			3		1	1			12	electric power facilities

other electrical equipment					1		1					1	3		1	1		1							9	other electrical equipment
water			1									1	6					1							9	water
circular sawing machine			1							1					1	1	1			1		1			7	circular sawing machine
centrifugal machine			4							1					1			1							7	centrifugal machine
roof, beam, haze, crossbeam, principal rafter					1		1	1			1		1									1			7	roof, beam, haze, crossbeam, principal rafter
human power cranes			1										1	1								1	1		6	human power cranes
loader									1											1		1	2		5	loader
chemical facilities					2									2								1			5	chemical facilities
explosive substance																	2		1				2		5	explosive substance
engine			1													1						1			4	engine
railway vehicle			1													1							1		4	railway vehicle
natural ground, rock										1													2		4	natural ground, rock
elevator, lift					1								1												3	elevator, lift
other vehicles							1				1														3	other vehicles
boiler							1						1										1		3	boiler
hollow chisel mortiser, wood borer			1																						2	hollow chisel mortiser, wood borer
chain saw											1													1	2	chain saw

total	320	305	337	304	283	302	283	287	316	301	199	226	227	226	202	219	173	177	207	262	178	171	248	240	5,993	total
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Transition of workers' age groups of fatal and non-fatal accidents in 011001 steel/iron/rolling 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
30-39	50	51	57	50	46	51	56	59	66	58	29	47	51	46	50	53	36	38	55	55	31	34	58	54	1,181	30-39
50-59	102	108	116	99	92	83	86	89	93	76	56	64	48	41	50	50	30	27	36	56	29	29	51	52	1,563	50-59
40-49	77	58	57	64	62	61	56	51	51	50	37	32	37	44	36	31	44	44	47	62	50	45	62	50	1,208	40-49
20-29	57	54	62	54	47	64	48	51	55	66	45	47	55	57	32	46	37	41	39	51	36	32	45	41	1,162	20-29
60 years old or more	21	26	36	28	25	32	30	29	38	42	20	30	26	33	31	33	19	23	22	30	26	27	26	41	694	60 years old or more
19 years old or less	13	8	9	9	11	11	7	8	13	9	12	6	10	5	3	6	7	4	8	8	6	4	6	2	185	19 years old or less
total	320	305	337	304	283	302	283	287	316	301	199	226	227	226	202	219	173	177	207	262	178	171	248	240	5,993	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 011001 steel/iron/rolling 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
300 workers or more	68	60	57	54	60	68	74	74	77	70	48	69	63	52	54	72	46	43	70	67	53	47	47	66	1,459	300 workers or more
100-299	71	63	62	70	67	67	76	76	76	76	56	57	57	66	52	49	52	50	51	73	44	43	78	65	1,497	100-299
10-29	65	76	71	47	46	62	53	47	48	56	33	34	37	37	35	26	29	25	28	37	29	29	58	41	1,049	10-29
50-99	25	31	38	48	39	32	19	28	33	37	23	32	35	23	26	29	16	21	31	36	18	19	24	27	690	50-99
30-49	45	27	44	40	22	40	28	22	39	28	16	19	18	29	13	22	12	24	14	25	16	19	25	23	610	30-49
9 workers or less	46	48	65	45	49	33	33	40	43	34	23	15	17	19	22	21	18	14	13	24	18	14	16	18	688	9 workers or less
total	320	305	337	304	283	302	283	287	316	301	199	226	227	226	202	219	173	177	207	262	178	171	248	240	5,993	total

Transition of occurred months of fatal and non-fatal accidents in 011001 steel/iron/rolling 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
January	24	25	31	20	30	23	25	25	32	27	19	22	15	20	20	12	19	24	16	21	20	16	17	24	527	January
August	31	26	30	32	25	25	26	23	33	20	11	15	17	14	22	17	7	11	17	24	19	19	45	23	532	August
October	23	37	27	25	28	28	21	24	32	14	18	23	18	16	13	23	16	15	15	27	5	9	14	23	494	October
February	28	30	20	22	13	27	24	29	22	22	18	22	21	20	16	19	10	11	16	18	9	19	18	23	477	February
March	28	28	39	24	26	25	17	25	33	23	15	22	25	21	13	17	14	16	13	21	12	14	12	22	505	March
June	25	25	42	23	21	28	27	19	31	30	13	21	20	19	20	14	20	10	15	22	14	10	23	21	513	June
April	25	18	35	29	23	32	19	25	16	40	14	14	21	20	20	18	14	20	14	23	21	17	28	20	526	April
July	32	24	20	22	19	24	24	20	23	23	23	26	20	16	16	19	14	15	17	25	21	21	20	20	504	July
September	23	29	23	27	39	20	34	27	24	24	19	20	25	14	10	26	23	15	21	32	11	15	21	17	539	September
May	22	27	22	26	15	26	27	27	23	26	22	10	17	21	18	21	13	13	24	19	23	10	21	17	490	May
November	29	23	27	23	22	16	23	20	24	28	9	17	14	23	19	16	11	13	16	15	10	15	20	15	448	November
December	30	13	21	31	22	28	16	23	23	24	18	14	14	22	15	17	12	14	23	15	13	6	9	15	438	December
total	320	305	337	304	283	302	283	287	316	301	199	226	227	226	202	219	173	177	207	262	178	171	248	240	5,993	total

Transition of prefectures of fatal and non-fatal accidents in 011001 steel/iron/rolling 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
Osaka	37	44	61		46		30	31	44	38	18	31	20	36	37	36	23	32	21	34	22	34	57	38	770	Osaka
Aichi	36	21	30		22		27	25	37	31	19	24	19	23	21	27	14	19	21	32	24	19	17	21	529	Aichi
Hyogo	25	31	20		30		35	30	33	25	16	24	20	15	25	30	13	14	27	28	8	15	27	19	510	Hyogo
Chiba	17	24	29		11		21	23	24	15	14	12	13	12	14	11	13	17	11	17	9	13	20	17	357	Chiba
Hiroshima	9	13	14		13		17	13	10	15	5	10	10	15	8	11	6	9	12	15	7	7	13	15	247	Hiroshima
Niigata	7	7	6		10		13	10	9	19	13	13	19	12	10	10	11	9	14	11	7	4	6	15	235	Niigata

Kanagawa	20	17	12		16		9	16	7	10	2	8	12	9	3	10	5	3	13	9	6	7	11	12	217	Kanagawa
Fukuoka	25	10	13		19		14	12	13	7	15	11	9	10	12	4	9	8	7	9	7	9	4	10	237	Fukuoka
Ibaraki	11	10	13		10		7	8	8	14	6	15	14	8	8	9	14	10	15	12	7	3	11	10	223	Ibaraki
Okayama	7	9	8		5		17	10	12	9	12	11	9	6	3	7	4	4	7	11	7	5	4	10	177	Okayama
Hokkaido	7	2	17		9		5	9	8	10	9	8	9	9	5	6	8	6	10	15	7	4	7	6	176	Hokkaido
Yamaguchi	12	6	7		9		9	13	7	8	2	6	2	8	5	4	8	2	4	2	6	4	2	6	132	Yamaguchi
Shimane	1	6	3				3	6	1	1	2	1	2	2	1	1		1	2	2	2			6	43	Shimane
Tokyo	14	15	13		9		12	3	6	10	9	5	7	5	4	4	5	2	3	5	5	2	4	5	147	Tokyo
Wakayama	12	9	8		12		6	8	7	7	9	6	9	4	4	3	3	1	3	5	5	2	5	5	133	Wakayama
Oita		4	2		8		5	1	7	9	2	3	9	4	7	5	7	4	4	3	3	5	2	5	99	Oita
Toyama	11	5	4		1		2	7	7	8	4	4		2	3	3	3	3	4	3	2	6	5	5	92	Toyama
Saitama	15	17	22		10		12	13	12	8	10	5	1	13	4	4	3	4	4	6	9	5	6	4	187	Saitama
Shizuoka	2	3	1		1		2		1	3	3	2		1					2	2	1	7	6	4	41	Shizuoka
Gunma	4	2	4		4		8	7	5	12	3	4	1	6	3	5	2	3	3	6	6	1	6	2	97	Gunma
Miyagi	2	4	6		5		4	3	4	7	4	3	7	3	4	4	4	1	7	5	6	3	1	2	89	Miyagi
Gifu	5	3	3		2		3	1	3	4	3	3		1	3	2	1	4	1	1	2	1		2	48	Gifu
Fukui	2	2	3		2		1	2	2	2	4	1	1	3	1	1			1	3	3	1	3	2	40	Fukui
Mie	4	2	1		4		3	3	1		2	1		2	1		2		1	1	1	1	1	2	33	Mie
Fukushima	2	3	3		2		4	1	1						1	1	1	1				1	2	2	25	Fukushima
Okinawa	2	2						3					1	1		6				1			5	2	23	Okinawa
Kochi			3		3								2					2		2	1		1	2	16	Kochi
Tochigi	7	4	11		6		4	3	7	3		1	5	6	4	1		2		3	3	2	3	1	76	Tochigi
Ishikawa	3	3	3		2		2		3	2	1	2	8	4	3	2	3	1	1	5		2	4	1	55	Ishikawa

Shiga	2	1	1		5		1	4	9	2	4	1	5		1	2	1	4		2	2		1	1	49	Shiga	
Nara		4	1				1	6		3		2	1		2	1	1		1		3	2	3	1	32	Nara	
Tokushima	1	3	2					1	3	2	1	1	2	1		2				2			3	1	25	Tokushima	
Iwate	2	1	3		1			2	1	5			2			1	1			1			1	1	22	Iwate	
Kagawa	1	1	1						1	2	2	3	1	2	1	1					1	1	1	1	20	Kagawa	
Kumamoto	2	1	3		1				3		1	1	1				1	1		1		1		1	18	Kumamoto	
Nagasaki	2	1					1	2		1	1		1		1			1	1		1			1	14	Nagasaki	
Saga		2			1			1		1	1				1	1				2				1	11	Saga	
Miyazaki	1	2			1				1								1		1		1			1	9	Miyazaki	
Kyoto	1	3			2		1	2	6	3	1	2	3	1	1		2	6	2	2	3	2	2		45	Kyoto	
Aomori	1		4				1	2	9	3	1			2	1	2	2	1	3	1	1	1	2		37	Aomori	
Nagano	2						1	2	2	1						1				1			2		12	Nagano	
Yamagata		4						2		1			1										1		9	Yamagata	
Tottori	1		2				1		1								1	1							8	Tottori	
Ehime		4					1										1	1		1					8	Ehime	
Akita					1			1	1				1	1					1	1					7	Akita	
Yamanashi	5							1								1									7	Yamanashi	
Kagoshima																											Kagoshima
total	320	305	337	304	283	302	283	287	316	301	199	226	227	226	202	219	173	177	207	262	178	171	248	240	5,993	total	

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