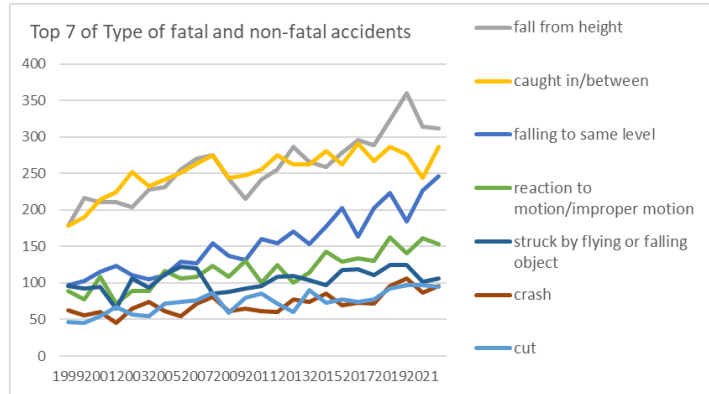
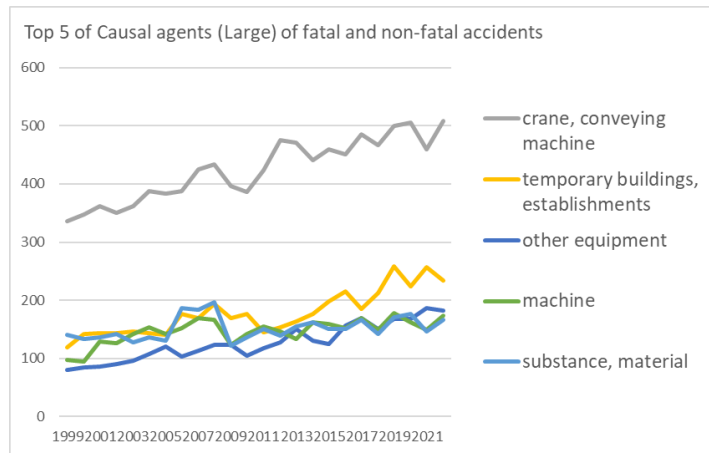


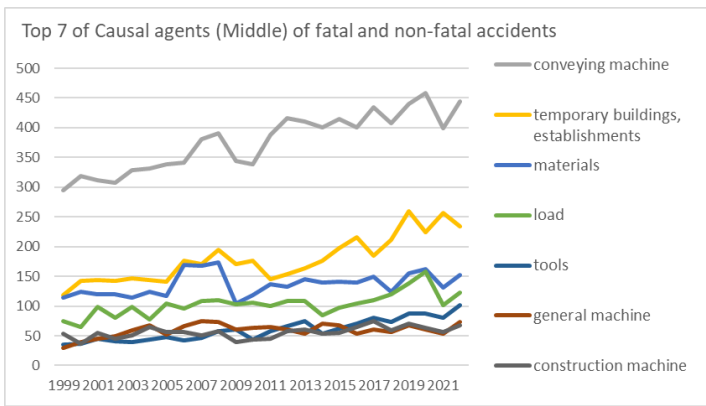
Transition of fatal and non-fatal accidents in 150102 industrial waste management service in Japan (1999-2022)



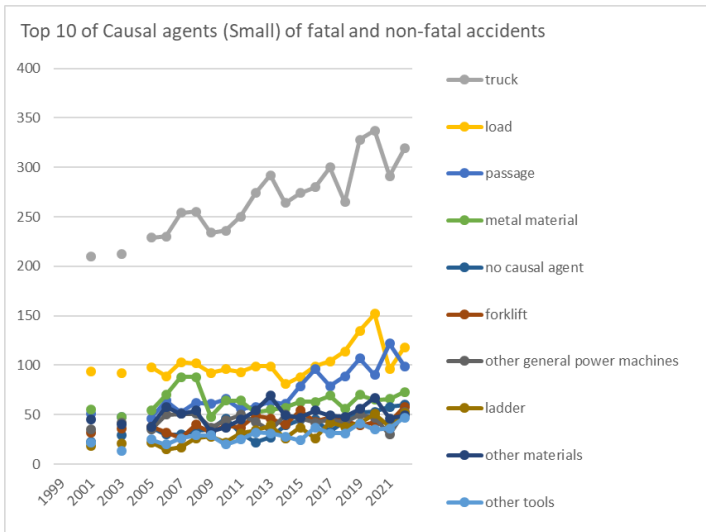
Transition of Top 7 of Type of fatal and non-fatal accidents in 150102 industrial waste management service in Japan (1999-2022)



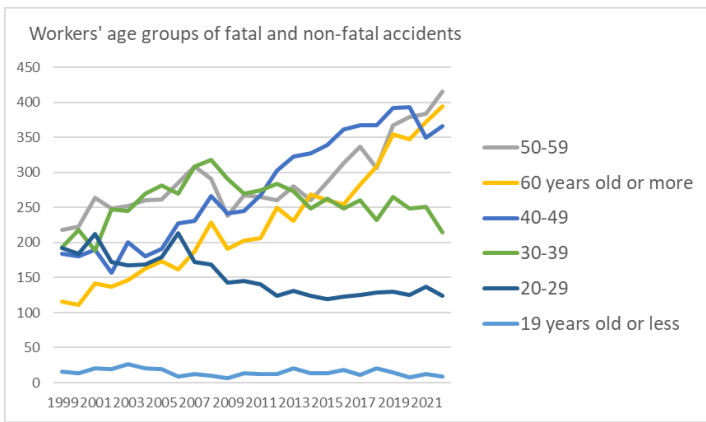
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 150102 industrial waste management service in Japan (1999-2022)



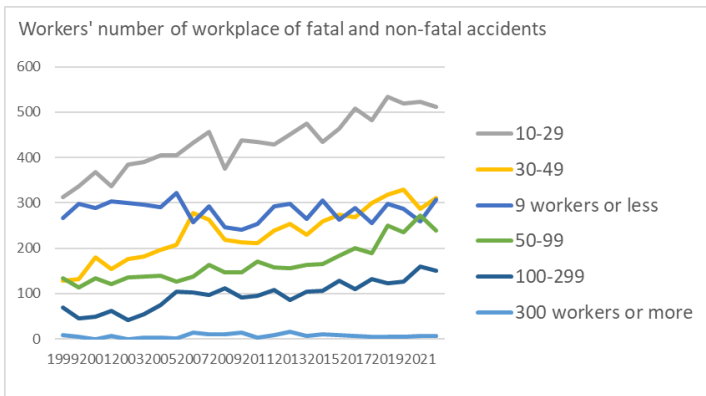
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 150102 industrial waste management service in Japan (1999-2022)



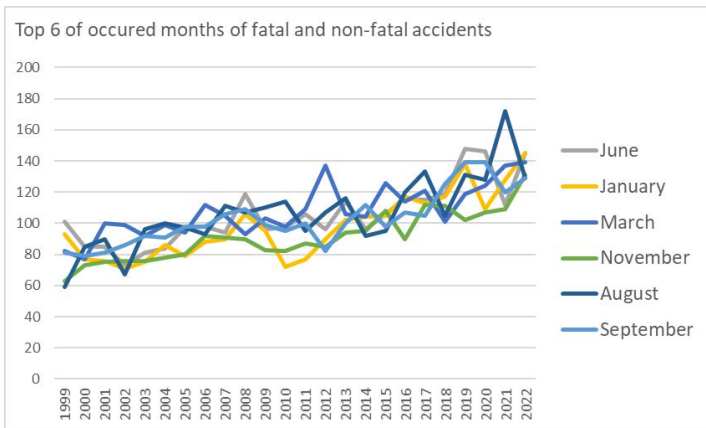
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 150102 industrial waste management service in Japan (1999-2022)



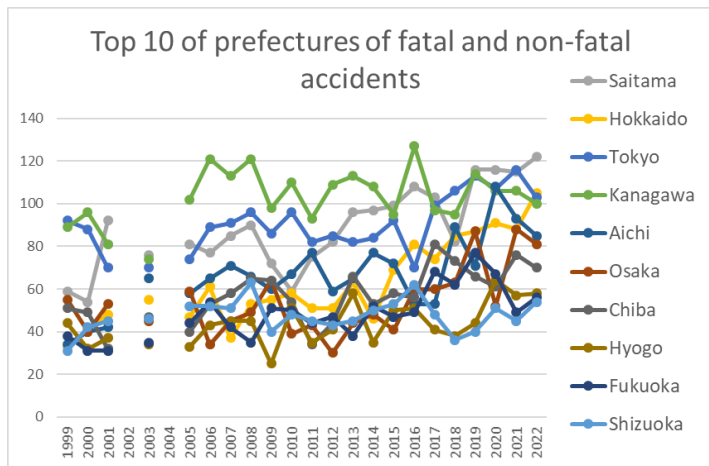
Transition of workers' age groups of fatal and non-fatal accidents in 150102 industrial waste management service in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 150102 industrial waste management service in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 150102 industrial waste management service in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 150102 industrial waste management service in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 150102 industrial waste management 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	179	216	211	211	204	228	232	255	271	275	243	215	242	255	286	266	259	279	296	289	323	360	314	312	6,221	fall from height
caught in/between	179	190	214	225	252	233	242	251	264	275	244	248	255	275	262	263	281	263	291	267	287	276	244	286	6,067	caught in/between
falling to same level	97	103	115	124	111	105	111	129	127	154	137	131	160	154	171	153	177	203	164	203	223	184	227	246	3,709	falling to same level
reaction to motion/improper motion	89	77	109	72	89	89	117	106	109	124	108	130	100	125	101	114	143	129	134	130	163	141	161	153	2,813	reaction to motion/improper motion
struck by flying or falling object	96	93	95	65	106	94	112	122	120	86	88	93	96	109	110	104	97	118	119	111	125	125	102	106	2,492	struck by flying or falling object
crash	63	56	60	45	65	74	62	54	72	81	62	65	62	60	78	74	85	69	73	72	96	106	87	96	1,717	crash
cut	47	45	55	67	57	55	72	74	76	87	59	80	86	72	60	90	73	77	74	78	93	97	97	95	1,766	cut
crashed by	54	60	68	70	49	67	65	66	65	66	47	56	55	75	78	70	64	60	80	65	82	81	81	89	1,613	crashed by

traffic accident (public road)	36	28	31	47	39	41	34	34	40	49	48	46	30	42	38	32	36	43	58	49	52	41	36	49	979	traffic accident (public road)
contact to high/low-temperature	20	20	23	19	21	24	18	25	13	20	20	21	22	12	24	24	13	16	25	42	24	18	14	32	510	contact to high/low-temperature
collapse	19	16	13	17	15	23	14	21	31	32	25	23	17	17	25	16	24	28	30	20	18	29	25	21	519	collapse
injury to the sole of the foot	6	2	6	4	6	11	10	10	11	6	9	10	6	15	7	6	7	8	17	9	10	6	4	15	201	injury to the sole of the foot
others	2	5	6	4	7	6	4	3	2	3	7	6	6	5	5	7	10	5	6	9	9	14	96	14	241	others
contact to harmful substance	14	7	9	7	5	6	10	9	6	10	7	10	10	11	9	12	5	14	9	15	12	12	11	6	226	contact to harmful substance
explosion	5	7	1	2	4	3		1	5	9	1	2	1	3	1	3	2	2	4	3	1	3	4	3	70	explosion
electric shock					1		1		2				2		2							2		1	11	electric shock
fire	6	2			2	1		1	3	3	3	3	4			5	1	1			2	2	2		41	fire
burst	3			1	1	1		3		1	1	1	3	1	1	1	1	4	1	1	1	2	1		29	burst
unclassifiable	3	2	1	2	1		1	2	4		2	1		2	1	2	1	1				2			28	unclassifiable
drown	1						1			2		1	8			1			1		1				16	drown
traffic accident (others)		1			1	2	1	1				1			1	1	1		1	1	2	1			15	traffic accident (others)
total	919	930	1,017	982	1,036	1,063	1,107	1,167	1,221	1,283	1,111	1,143	1,165	1,233	1,260	1,244	1,280	1,320	1,383	1,364	1,524	1,502	1,506	1,524	29,284	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 150102 industrial waste management 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	336	348	362	350	362	387	384	387	425	433	396	386	423	475	471	441	460	451	486	466	499	505	460	509	10,202	crane, conveying

machine																											machine
temporary buildings, establishments	119	142	144	143	147	144	141	176	170	194	170	176	145	154	163	176	198	216	185	212	259	224	257	234	4,289	temporary buildings, establishments	
other equipment	80	85	86	91	96	107	120	103	114	123	124	105	117	128	150	131	125	157	170	151	168	168	186	183	3,068	other equipment	
machine	97	95	129	126	142	154	142	152	170	167	124	142	155	147	133	162	159	152	170	149	178	162	149	174	3,530	machine	
substance, material	140	133	136	142	127	137	130	187	184	196	122	136	151	139	155	162	151	151	167	142	171	176	146	166	3,647	substance, material	
load	75	65	99	80	99	77	104	96	109	110	103	106	100	108	108	85	97	105	110	120	138	158	102	123	2,477	load	
others	51	50	39	40	41	42	62	45	38	48	55	62	40	40	39	60	70	56	53	60	66	70	164	77	1,368	others	
environment	21	12	22	10	22	15	24	21	11	12	17	30	34	42	41	27	20	32	42	64	45	39	42	58	703	environment	
total	919	930	1,017	982	1,036	1,063	1,107	1,167	1,221	1,283	1,111	1,143	1,165	1,233	1,260	1,244	1,280	1,320	1,383	1,364	1,524	1,502	1,506	1,524	29,284	total	

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 150102 industrial waste management 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
conveying machine	295	319	312	307	329	332	339	341	381	390	344	339	388	416	411	401	414	400	435	407	440	458	399	444	9,041	conveying machine
temporary buildings, establishments	119	142	144	143	147	144	141	176	170	194	170	176	145	154	163	176	198	216	185	212	259	224	257	234	4,289	temporary buildings, establishments
materials	114	124	120	120	114	124	117	169	168	173	105	118	137	132	145	139	141	139	150	124	155	162	131	152	3,273	materials
load	75	65	99	80	99	77	104	96	109	110	103	106	100	108	108	85	97	105	110	120	138	158	102	123	2,477	load
tools	35	36	45	41	39	43	48	42	47	58	60	44	58	66	75	54	62	70	80	73	87	88	80	102	1,433	tools
general machine	30	39	45	50	59	68	52	66	75	74	60	63	65	61	53	71	67	54	60	56	68	61	53	73	1,423	general machine

kiln, caldron	8	11	7	6	4	5	3	5	4	6		3	8	5	5	2	4	6	8	2	3	7	6	6	124	kiln, caldron
welding equipment	1	1	1	3	4	3	5	3	4	2	1	4	4	1	3	2	1	2	6	6	5	3	4	4	73	welding equipment
electric equipment	1			1	2		2	2	1	1	1	1	1		4	1		1	4	3	1	1	4	32	electric equipment	
unclassifiable	7	1		1	2	1	3	3	1	2	2	4	2	2	1	2	2	3		1	2	5		2	49	unclassifiable
pressure vessel	2	3	1		2	1	2			2		1	5	2	2	1	2	3	1			1		1	32	pressure vessel
chemical facilities				1		1	2		1	1	1	1	1			1	1		1					1	13	chemical facilities
mobile silviculture machine																								1	1	mobile silviculture machine
engine				1			1	1		1		1	1	1	1	2		1	4		1				16	engine
total	919	930	1,017	982	1,036	1,063	1,107	1,167	1,221	1,283	1,111	1,143	1,165	1,233	1,260	1,244	1,280	1,320	1,383	1,364	1,524	1,502	1,506	1,524	29,284	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 150102 industrial waste management 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
truck			210		212		229	230	254	255	234	236	250	274	292	264	274	280	300	265	328	337	291	319	5,334	truck
load			94		92		98	89	103	102	92	96	93	99	99	81	88	99	104	114	135	152	96	118	2,044	load
passage			51		48		46	64	52	62	61	66	56	58	63	61	79	96	79	89	107	90	122	99	1,449	passage
metal material			55		48		54	70	88	88	48	64	64	52	55	57	63	63	69	56	70	65	66	73	1,268	metal material
no causal agent			23		29		37	30	30	34	35	46	31	22	27	39	45	45	33	43	52	53	58	60	772	no causal agent
forklift			32		36		38	32	26	40	32	39	37	49	46	40	54	43	47	44	39	42	42	58	816	forklift
other general power machines			35		42		35	50	51	51	37	44	50	43	34	50	46	42	45	42	50	47	30	53	877	other general power machines
ladder			18		21		22	15	17	26	28	22	31	34	39	26	37	26	42	38	41	51	38	52	624	ladder

machine			6		9		7	4	12	5	7	7	9	6	3	6	5	7	8	6	7	7	5	4	130	machine
gas welding equipment					4		5	2	3	2	1	4	4	1	1	1		2	5	5	3	1	1	4	49	gas welding equipment
inflammable gas			2		3		1			4	4	3			1	4			1	1	1	1	3	4	33	inflammable gas
slinging tool			5		5		1	7	4	3	3	2	2		5		1	7	7	4	5	2	6	3	72	slinging tool
scaffolding					2		2	5	6	6	2	4	2	5	2	5	3	3	2	6	2	4	1	3	65	scaffolding
shearing machine			2		1		3	2	1	2	1	2	2	6	1	3	4	2	4	2	3	2	1	3	47	shearing machine
inflammable substance			3		3		1	1	6	3	2	2	1		1	5	2		4	1	2	3	4	3	47	inflammable substance
other vehicles			2		1		1	3	3	1	1		4	2	3		1	1		1	5		2	3	34	other vehicles
harmful substance			6		1		4	6	6	7	3	6	9	5	5	3	3	5	4	7	10	7	2	2	101	harmful substance
unclassifiable					2		3	3	1	2	2	4	2	2	1	2	2	3		1	2	5		2	39	unclassifiable
other powered crane			1				3		3		1	1			1	1	2	4		2			2	2	23	other powered crane
chain saw			2		2		1		1	2	1					2				3	1	1	2	2	20	chain saw
electric power facilities					1		1	1			1	1	1			2				1	2	1		2	14	electric power facilities
natural ground, rock			3		8		4	5	3	4	6	4	3	5	5	1	3	1	9	5	4	3	5	1	82	natural ground, rock
roof, beam, haze, crossbeam, principal rafter			6		7		5	3	2	5	3	1	2	6	3	4	2	5	2	1	2	1	1	1	62	roof, beam, haze, crossbeam, principal rafter
water			1		2		1	1			1	11	2	2	1		1	1	1	1	2		2	1	30	water
other kiln, caldron					1		3	1	3				2			2		2		1	1	2	1	19	other kiln, caldron	
other pressure vessels			1		1		2			2		1	4	1	1		1	1						1	16	other pressure vessels

Hiroshima	43	46	40		30		40	49	38	37	31	28	43	52	33	44	36	49	44	43	51	43	64	47	931	Hiroshima
Miyagi	7	15	14		15		14	11	19	18	10	24	30	28	34	24	24	35	35	37	37	25	29	44	529	Miyagi
Nagano	24	23	47		37		24	37	33	20	25	25	28	29	27	15	28	21	27	29	32	33	27	34	625	Nagano
Mie	28	22	22		15		17	18	29	35	21	17	18	22	22	29	21	20	22	32	32	21	32	34	529	Mie
Nagasaki	17	20	24		26		28	22	36	23	24	17	20	17	21	12	29	20	16	20	17	31	23	31	494	Nagasaki
Gunma	18	22	29		33		25	32	26	31	21	27	35	45	34	29	37	23	36	29	34	39	25	29	659	Gunma
Oita	9	5	17		11		15	15	36	31	19	17	25	26	28	17	19	17	16	16	23	22	18	29	431	Oita
Kyoto	8	30	16		8		13	17	19	15	15	20	23	33	26	26	22	35	30	30	27	21	29	28	491	Kyoto
Kagoshima	11	4	4		8		15	18	8	18	19	13	19	9	10	13	28	20	23	13	25	30	25	28	361	Kagoshima
Tochigi	9	10	16		19		8	8	20	15	15	18	15	15	22	21	29	22	29	22	16	28	26	24	407	Tochigi
Ibaraki	12	13	22		16		25	15	23	18	16	25	26	21	21	19	22	22	22	22	26	25	23	23	457	Ibaraki
Fukushima	14	18	21		17		12	18	16	14	17	8	15	18	14	26	27	17	17	18	24	17	25	23	396	Fukushima
Niigata	15	15	16		24		21	23	15	23	15	26	22	20	22	24	20	23	18	22	24	19	23	21	451	Niigata
Okayama	12	5	6		18		12	21	15	9	22	16	19	17	23	24	21	26	31	20	30	18	32	21	418	Okayama
Ehime	15	14	5		12		10	15	12	12	10	15	7	17	16	12	17	17	16	8	18	19	13	19	299	Ehime
Miyazaki	3	10	7		10		9	8	9	7	10	16	17	14	10	14	11	12	15	16	21	17	14	19	269	Miyazaki
Kumamoto	16	6	11		5		15	10	19	26	15	16	17	14	14	20	16	29	24	27	23	26	17	18	384	Kumamoto
Yamagata	18	8	6		13		17	26	22	19	19	14	17	16	19	9	11	12	15	17	23	12	11	17	341	Yamagata
Shiga	8	13	10		5		8	10	17	18	14	9	8	24	9	22	13	10	18	17	13	15	16	16	293	Shiga
Okinawa	4	1	3				1	5	5	7	2	6	5	8	3	10	7	8	10	4	9	5	7	16	126	Okinawa
Yamaguchi	4	3	7		12		12	10	8	6	13	5	7	12	5	8	5	8	12	6	8	12	10	15	188	Yamaguchi
Gifu	7	7	14		19		20	15	18	19	18	15	16	20	11	13	14	12	17	11	16	10	13	13	318	Gifu
Fukui	10	7	9		5		5	4	15	13	8	8	13	13	13	7	13	6	13	13	6	10	7	13	211	Fukui
Aomori	5	4	9		12		11	6	9	11	4	15	10	11	11	15	10	9	7	11	9	17	11	12	219	Aomori
Kagawa	3	9	7		12		18	10	6	12	13	11	15	13	11	9	7	5	11	13	18	22	16	11	252	Kagawa

Wakayama	4	2	4		13		15	11	10	7	11	8	10	15	9	5	11	8	12	13	17	10	11	11	217	Wakayama
Tokushima	3	2	9		4		7	4	6	11	7	5	4	5	4	11	10	8	6	19	12	14	9	11	171	Tokushima
Iwate	6	12	10		20		17	19	14	19	4	13	13	9	16	16	15	9	14	14	19	16	21	10	306	Iwate
Saga	11	11	13		7		20	10	7	17	9	11	9	14	20	10	9	14	10	14	18	19	13	10	276	Saga
Nara	18	15	16		8		10	8	8	3	8	6	11	9	10	11	12	15	11	9	9	16	13	9	235	Nara
Akita	1	4	1		5		9	6	6	12	5	8	10	9	15	9	5	12	17	11	8	12	6	9	180	Akita
Shimane	5	12	13		11		4	6	10	9	11	5	5	8	12	5	8	9	8	6	7	6	8	9	177	Shimane
Toyama	6	12	8		8		6	9	14	22	15	8	13	22	8	16	11	12	13	11	17	8	15	8	262	Toyama
Kochi	7	7	12		8		11	7	7	3	7	8	11	5	7	11	4	2	10	12	7	13	9	8	176	Kochi
Tottori	1	1	6		6		9	5	10	13	4	6	8	8	8	9	12	9	5	7	6	10	6	7	156	Tottori
Yamanashi	1	2	6		10		6	3	6	14	8	5	6	7	7	11	6	14	7	2	12	7	7	7	154	Yamanashi
Ishikawa	10	7	6		7		8	7	12	13	11	17	16	17	15	18	14	13	22	21	15	11	19	6	285	Ishikawa
total	919	930	1,017	982	1,036	1,063	1,107	1,167	1,221	1,283	1,111	1,143	1,165	1,233	1,260	1,244	1,280	1,320	1,383	1,364	1,524	1,502	1,506	1,524	29,284	total

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