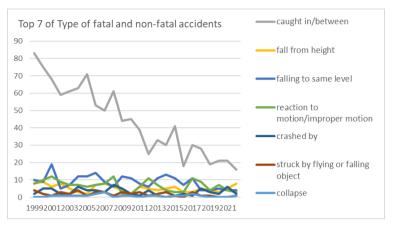
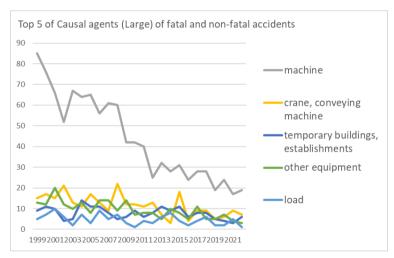
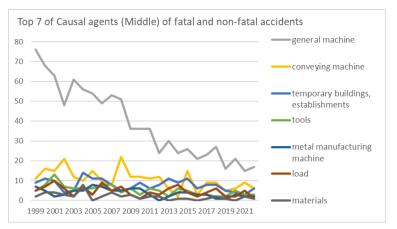
Transition of fatal and non-fatal accidents in 010702 bookbinding in Japan (1999-2022)



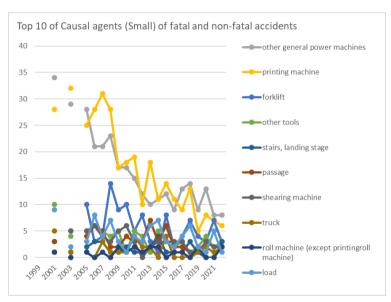
Transition of Top 7 of Type of fatal and non-fatal accidents in 010702 bookbinding in Japan (1999-2022)



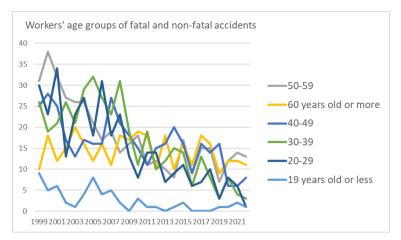
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 010702 bookbinding in Japan (1999-2022)



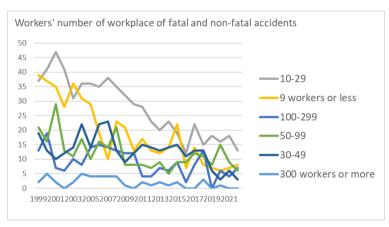
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 010702 bookbinding in Japan (1999-2022)



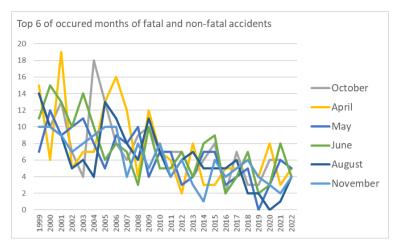
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 010702 bookbinding in Japan (1999-2022)



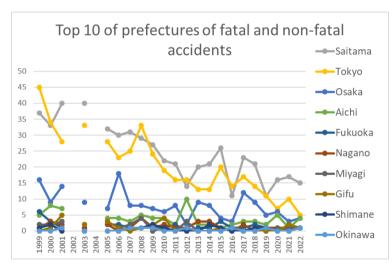
Transition of workers' age groups of fatal and non-fatal accidents in 010702 bookbinding in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 010702 bookbinding in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 010702 bookbinding in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 010702 bookbinding in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 010702 bookbinding 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	83	75	68	59	61	63	71	53	50	61	44	45	39	25	33	30	41	18	30	28	19	21	21	16	1,054	caught in/between
fall from height	8	9	6	8	5	3	2	7	8	6	4	2	6	5	4	5	6	3	3	5	4	3	5	8	125	fall from height
1	II.	H	II I	I I	i	II.	II I	I	1	II I	1	II .	I	1	1 1	1	i	1	II I	1 1	1	1	11 1	1	1	1

falling to same level	10	9	19	5	7	12	12	14	9	6	12	11	8	6	11	13	11	7	11	4	4	5	4	4	214	falling to same
reaction to motion/improper motion	8	10	12	9	7	7	6	7	8	12	2	2	6	11	7	4	3	3	11	9	4	7	4	3	162	reaction to motion/improper motion
crashed by	2	5	5	2	2	6	4	4	3	7	5	2	1	4	1		1	2	1	5	3	2	6	2	75	crashed by
struck by flying or falling object	4	2	1	3	2	4	1	3	3	1	3	2	3	1	2	3	1		3	1	1			1	45	struck by flying or falling object
collapse			1	1	1	1	1	2	3		1	1		1	1		1	1	2	1				1	20	collapse
traffic accident (public	1	2		1			1	3					1	1			4	1						1	16	traffic accident (public road)
injury to the sole of the foot																1								1	2	injury to the sole
cut	10	11	11	7	14	7	6	13	14	10	8	4	5	5	3	2	6	4	5	5	1	6			157	cut
crash	3	6	6	5	5	14	2	3	4	4	2	5	3	2	1	4	1	2	3	5	2	3	3		88	crash
contact to high/low- temperature	1		1				1	1			2		1	1							1				9	contact to high/low- temperature
others						1		1	1				1										1		5	others
contact to harmful substance										1							1								2	contact to harmful substance
electric shock		1								1															2	electric shock
unclassifiable		1														1									2	unclassifiable
fire						1																			1	fire
	1	1	1	1	1	7	1	1		7			1	1	1		1	1	1		7		-i	7	1	

traffic accident	1																								1	traffic accident
(others)																										(others)
drown																										drown
explosion																										explosion
burst																										burst
total	131	131	130	100	104	119	107	111	103	109	83	74	74	62	63	63	76	41	69	63	39	47	44	37	1,980	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 010702 bookbinding 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
machine	85	76	66	52	67	64	65	56	61	60	42	42	40	25	32	28	31	24	28	28	19	24	17	19	1,051	machine
crane, conveying	15	17	15	21	13	11	17	13	9	22	12	12	11	13	7	3	18	4	9	9	5	6	9	7	278	crane, conveying machine
temporary buildings, establishments	9	11	10	4	5	14	11	11	8	5	6	9	6	8	11	9	11	6	8	8	5	4	3	6	188	temporary buildings, establishments
other equipment	13	12	20	12	10	13	8	14	14	9	14	7	8	8	5	10	8	5	11	5	5	7	4	3	225	other equipment
load	5	7	10	6	2	7	3	9	5	7	3	1	4	3	6	8	4	2	4	6	2	2	5	1	112	load
substance, material	2	4	4	3	2	9	1	2	4	2	3	1	2	2		1	2		1	2	1		2	1	51	substance, material
others	2	4	5	2	5	1	2	6	2	3	1	2	3	3	2	2	1		8	4	1	4	4		67	others
environment										1	2					2	1			1	1				8	environment
total	131	131	130	100	104	119	107	111	103	109	83	74	74	62	63	63	76	41	69	63	39	47	44	37	1,980	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 010702 bookbinding 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		Causal (M)
general machine	76	68	63	48	61	56	54	49	53	51	36	36	36	24	30	24	26	21	23	27	16	21	15	17	931	general machine
conveying machine	11	16	15	21	12	10	15	10	8	22	12	12	11	12	6	2	15	3	9	9	5	6	9	6	257	conveying machine
temporary buildings, establishments	9	11	10	4	5	14	11	11	8	5	6	9	6	8	11	9	11	6	8	8	5	4	3	6	188	temporary buildings, establishments
tools	5	8	13	7	6	6	6	8	8	4	6	3	6	5	2	6	5	3	3	2	2	5	3	3	125	tools
metal manufacturing machine	7	5	2	3	5	5	8	7	5	5	6	6	3		2	4	4	3	3	1	1	3	2	2	92	metal manufacturing machine
load	5	7	10	6	2	7	3	9	5	7	3	1	4	3	6	8	4	2	4	6	2	2	5	1	112	load
materials	2	4	4	3	2	8		2	4	2	3	1	2	2		1	1		1	2	1		2	1	48	materials
vehicle	1	1					1	3						1	1		2	1						1	12	vehicle
human power machine, tools	6	3	6	4	4	5	1	4	5	3	7	3	1	3	2	1	1	2	6	3	2	1	1		74	human power machine, tools
no causal agent	2	2	4	2	4	1	1	3	2	3	1	2	2	3	1	1			7	2	1	4	1		49	no causal agent
power transmission mechanism	2	3	1	1	1	2	3		3	3				1			1		2		2				25	power transmission mechanism

other equipments,	2	1	1	1		2	1	2	1	2		1	1	1	2	1	1			1		21	other equipments, facilities
other causal agent		1			1		1	3					1		1	1	1	2			3	15	other causal agent
crane	3				1	1	1		1						1	1						9	crane
natural environment										1	2				2	1		1	1			8	natural environment
electric equipment											1					1	1		1			4	electric equipment
hazards, harmful substances						1	1									1						3	hazards, harmful substances
unclassifiable		1	1											1								3	unclassifiable
woodworking machine						1				1												2	woodworking machine
construction machine													1									1	construction machine
welding equipment															1							1	welding equipment
engine																							engine
mobile silviculture machine																							mobile silviculture machine
pressure vessel																							pressure vessel

chemical facilities																										chemical
Chemical facilities																										facilities
kiln, caldron																										kiln, caldron
total	131	131	130	100	104	119	107	111	103	109	83	74	74	62	63	63	76	41	69	63	39	47	44	37	1,980	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 010702 bookbinding 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
other general power machines			34		29		28	21	21	23	17	17	15	12	10	11	12	9	13	14	9	13	8	8	324	other general power machines
printing machine			28		32		25	28	31	28	17	18	19	10	18	11	14	11	9	13	5	8	7	6	338	printing machine
forklift			3		5		10	3	4	14	9	10	5	8	3	1	8	2	4	7	4	3	7	3	113	forklift
other tools			10		4		5	6	5	4	5	1	5	4	1	5	3	2	3	1	2	4	2	3	75	other tools
stairs, landing stage			1				2	3	3	1	1	2	1	1	2	4	1	1	1	3	1			3	31	stairs, landing stage
passage			3		1		4	6	5	2	2	4	3	3	7	3	6	2	2	1	1	3	2	2	62	passage
shearing machine			1		5		5	6	4	3	5	6	3		2	3	3	3	3	1	1	3	2	2	61	shearing machine
truck			5		1		1		3	1	1	1	4	2	2		4				1	2	1	2	31	truck
roll machine (except printingroll machine)			1				1		1		2	1	2	1	2	2		1	1		2			2	19	roll machine (except printingroll machine)
load			9		2		3	8	4	7	3	1	4	3	6	7	3	2	4	6	2	1	5	1	81	load
conveyor			4		5		4	5	1	6	2	1	2		1		3	1	3	2		1	1	1	43	conveyor
other materials			4		2			1	2	1	3	1	1	2			1		1		1		2	1	23	other materials
other temporary buildings, establishments			1					1		1	1		1		1	1			2	2				1	12	other temporary buildings, establishments

			 ال_	 												<u> </u>		الـــــــــــــــــــــــــــــــــــــ	_	_			
cars, bus, motorcycle				1	3						1	1		2	1						1	10	cars, bus, motorcycle
injection molding machine																					1	1	injection molding machine
no causal agent		4	4	1	3	2	3	1	2	2	3	1	1			7	2	1	4	1		42	no causal agent
human power		4	1	1	1	3	3	5	3		2	2	1		1	3	2	2		1		35	human power hauling equipment
working platform,		5	3	2			1				3	1	1	1	2	2	1	2				24	working platform, boot board
ladder		3	2	1	2	2		1	1	1	1	1	1	2	1				1	1		21	ladder
power transmission mechanism		1	1	3		3	3				1			1		2		2				17	power transmission mechanism
hand tool		2	3		2	2		1		1	1				1	1	1		1			16	hand tool
building, establishment			1	3				2	3	1				2	1		1	1	1			16	building, establishment
other equipment,		1		1	2	1	2		1	1		1	2	1		1			1			15	other equipment,
other causal agent			1	1	3					1			1	1		1	2			3		14	other causal agent
other powered conveying machines		3	1		2		1				2		1			2						12	other powered conveying machines
other metal manufacturing machines		1		1		1	1	1					1									6	other metal manufacturing machines
machine/equipment		1			1	1							1	1					1			6	machine/equipment

	 !		 		 !					!					!	 			 !	 !	
other environments								1	1					2	1		1			6	other environments
metal material						1	1				1			1			1			5	metal material
elevator, lift				1			1							1	1					4	elevator, lift
transmission									1						1	1		1		4	transmission
human power machine						1			1							2				4	human power machine
slinging tool							1			1							1			3	slinging tool
opening						1										1			1	3	opening
lumber, bamboo							1	1									1			3	lumber, bamboo
power press					2															2	power press
roof, beam, haze, crossbeam, principal rafter												1			1					2	roof, beam, haze, crossbeam, principal rafter
high/cold temperature environment									1									1		2	high/cold temperature environment
unclassifiable		1											1							2	unclassifiable
circular sawing								1												1	circular sawing machine
vehicle for high lift work											1									1	vehicle for high lift work
lathe						1														1	lathe
drill press, milling															1					1	drill press, milling machine

grinding machine,						1								 1	grinding machine,
buffing machine						_								<u> </u>	buffing machine
food manufacturing								1						1	food manufacturing
machine														<u> </u>	machine
crane				1										1	crane
other welding									1					1	other welding
equipment									'						equipment
human power										1				1	human power
cranes															cranes
inflammable				1										1	inflammable
substance															substance
harmful substance										1				1	harmful substance
engine															engine
band sawing															band sawing
machine															machine
wood planer															wood planer
machine															machine
hollow chisel															hollow chisel
mortiser, wood															mortiser, wood
borer															borer
chamfering															chamfering
machine, router,															machine, router,
woodworking															woodworking
milling machine															milling machine
chain saw															chain saw

		other woodworking
machines machines		machines
leveling,		leveling,
transporting or		transporting or
loading machine		loading machine
excavating machine		excavating machine
foundation work		foundation work
machine		machine
hardening machine		hardening machine
demolition machine		demolition machine
other construction other construction		other construction
machines		machines
forging pressure		forging pressure
hammer		hammer
centrifugal machine		centrifugal machine
mixer, grinder		mixer, grinder
industrial robot		industrial robot
felling machine		felling machine
mobile logging		mobile logging
machine		machine
skyline yarding		skyline yarding
machine		machine
other mobile other mobile		other mobile
silviculture machine		silviculture machine
mobile crane		mobile crane

derrick crane													derrick crane
cargo lifting													cargo lifting
appliance													appliance
gondola													gondola
lumberyard													lumberyard
equipment, logging													equipment, logging
cableway													cableway
simple skyline													simple skyline
yarding equipment													yarding equipment
other powered													other powered
crane													crane
railway equipment													railway equipment
loader													loader
straddle carrier													straddle carrier
rough terrain hauler													rough terrain hauler
railway vehicle													railway vehicle
other vehicles													other vehicles
boiler													boiler
pressure vessel													pressure vessel
other pressure													other pressure
vessels													vessels
chemical facilities													chemical facilities
gas welding													gas welding
equipment													equipment

arc welding																										arc welding
equipment	<u> </u>							<u> </u>											<u> </u>							equipment
kiln, caldron																										kiln, caldron
industrial dryer																										industrial dryer
other kiln, caldron																										other kiln, caldron
electric power																										electric power
other electrical equipment																										other electrical equipment
scaffolding																										scaffolding
timbering																										timbering
explosive substance																										explosive substance
inflammable gas																										inflammable gas
radiation																										radiation
other hazards, harmful substances																										other hazards, harmful substances
stone, sand, substance																										stone, sand, substance
natural ground,																										natural ground,
rock																										rock
standing tree																										standing tree
water																										water
abnormal environment																										abnormal environment
total	131	131	130	100	104	119	107	111	103	109	83	74	74	62	63	63	76	41	69	63	39	47	44	37	1,980	total

Transition of workers' age groups of fatal and non-fatal accidents in 010702 bookbinding 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	31	38	32	27	26	26	21	17	19	14	16	18	11	12	10	8	17	9	15	15	7	12	14	13	428	50-59
60 years old or	10	18	12	15	20	16	12	16	11	18	17	19	18	10	18	10	16	11	18	16	9	12	12	11	345	60 years old or
more					20						.,														343	more
40-49	25	28	25	17	13	17	16	16	27	21	18	15	11	15	16	20	16	9	16	14	16	6	6	8	391	40-49
30-39	26	19	21	26	21	29	32	27	23	31	19	11	19	10	12	15	14	6	13	8	3	8	4	3	400	30-39
20-29	30	23	34	13	23	27	18	31	18	23	13	8	14	14	7	9	11	6	7	10	3	8	6	1	357	20-29
19 years old or less	9	5	6	2	1	4	8	4	5	2		3	1	1		1	2				1	1	2	1	59	19 years old or less
total	131	131	130	100	104	119	107	111	103	109	83	74	74	62	63	63	76	41	69	63	39	47	44	37	1,980	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 010702 bookbinding 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	37	41	47	41	31	36	36	35	38	35	32	29	28	23	20	23	19	12	22	15	18	16	18	13	665	10-29
9 workers or less	39	37	35	28	36	31	29	19	10	23	21	13	17	13	12	14	22	7	14	8	7	6	7	8	456	9 workers or less
100-299	13	19	7	6	10	8	14	15	14	13	12	12	4	4	7	6	9	2	8	13		6	4	7	213	100-299
50-99	21	16	29	13	11	17	10	16	14	21	8	8	8	7	9	5	9	9	12	11	8	15	9	6	292	50-99
30-49	19	13	10	12	14	22	14	22	23	13	9	12	15	14	13	14	15	11	13	13	6	3	6	3	309	30-49
300 workers or	2	5	2		2	5	4	4	4	4	1		2	1	2	1	2			3		1			45	300 workers or
more																										more
total	131	131	130	100	104	119	107	111	103	109	83	74	74	62	63	63	76	41	69	63	39	47	44	37	1,980	total

Transition of occured months of fatal and non-fatal accidents in 010702 bookbinding 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
October	14	10	13	7	4	18	13	8	6	9	10	7	7	7	4	6	8	2	7	3	3	6	6	5	183	October
April	15	6	19	5	7	7	13	16	12	4	12	7	6	2	8	3	3	5	5	6	4	8	3	5	181	April
May	7	12	9	10	11	8	5	9	8	10	4	7	7	3	4	7	7	3	4	5		3	6	5	154	May
June	11	15	13	10	14	10	6	8	7	3	10	5	5	7	4	8	9	2	4	7	2	3	8	4	175	June
August	14	10	9	5	6	4	13	11	8	6	11	7	4	6	7	5	5	5	6	2	2		1	4	151	August
November	10	10	9	7	8	9	10	10	4	8	5	8	4	6	3	1	6	4	5	6	4	3	2	4	146	November
March	9	14	12	12	12	20	4	15	15	9	6	3	5	4	3	9	6	1	10	10	4	5	7	3	198	March
February	15	13	10	12	6	12	11	7	10	11	1	4	6	7	3	10	10	3	5	3	4	4	4	2	173	February
September	8	15	9	7	14	9	8	5	8	13	5	5	8	7	10	4	8	5	4	3	2	4	2	2	165	September
July	11	8	9	11	5	9	3	3	7	10	6	7	7	4	8	5	3	5	5	9	1	8	1	2	147	July
December	7	11	9	4	5	4	8	7	10	12	7	5	5		3	3	4	3	7	3	6	2	2	1	128	December
January	10	7	9	10	12	9	13	12	8	14	6	9	10	9	6	2	7	3	7	6	7	1	2		179	January
total	131	131	130	100	104	119	107	111	103	109	83	74	74	62	63	63	76	41	69	63	39	47	44	37	1,980	total

Transition of prefectures of fatal and non-fatal accidents in 010702 bookbinding 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
Saitama	37	33	40		40		32	30	31	29	27	22	21	14	20	21	26	11	23	21	11	16	17	15	537	Saitama
Tokyo	45	34	28		33		28	23	25	33	24	19	16	16	13	13	20	14	17	14	11	7	10	5	448	Tokyo
Osaka	16	9	14		9		7	18	8	8	7	6	8	2	9	8	4	3	12	9	5	6	3	4	175	Osaka
Aichi	5	8	7				4	4	3	5	4	4	2	10	2	2	1	2	3	3	2	5	1	4	81	Aichi
Fukuoka	6	3	1		1		2	2	1	4	1	1	2		1	1	3	1	1	2	1	1	1	1	37	Fukuoka
Nagano	1	3	2		1		2		1	4	1	2	1	1	3	3	1		2		1	1		1	31	Nagano
Miyagi	2	2	3				3	1	2	4		1		3				1				1	1	1	25	Miyagi

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Gifu		1	5	2	3	1		1	2	4		1			1						2	1	24	Gifu
Shimane	1	2					1	1	2	1				2	1			1	1			1	14	Shimane
Okinawa			1				1	1	1			1				1			1			1	8	Okinawa
Yamagata					1	1	2						1									1	6	Yamagata
Mie		1					1															1	3	Mie
Tokushima											1											1	2	Tokushim
Okayama	1	2	1	3	4	7	8	2	3	3	2	2		2	2		3	3	1	3	2		54	Okayama
Kyoto	2	4	5	2	4	3	3	2	1	3	3	2	5	2	3	3		1	1	3			52	Kyoto
Shizuoka	3	7	2	1	2	4	1	2	2	2	3	1			4	1	3		2	2	2		44	Shizuoka
Hyogo	4	3	3		1	10	3	3		1	2			1	1	1	1	1	1		3		39	Hyogo
Chiba		6	1	1	1		3	2	1			2	1		2		1		1				22	Chiba
Niigata	1		2		1	2	1	5			2			1	1	1	1	1					19	Niigata
Gunma		3	1		2		1		1	3	2		1	2			1						17	Gunma
Kanagawa	2	3	2	1	2		1				1	1	1		1					1			16	Kanagawa
baraki	2	2				2		1				1	1		1			1					11	lbaraki
Nara		1			1			1	1	1	1		1	1				2					10	Nara
Fukui	1		1			1	1		1			1			1	1		1					9	Fukui
Hiroshima			3	1			2					1					1						8	Hiroshima
Hokkaido			2	1	1			1			2												7	Hokkaido
Aomori					2	1	2		1					1									7	Aomori
Kumamoto					2				1		1	1	1	1									7	Kumamot
Shiga		1		1		1					1	1			1								6	Shiga
Yamaguchi			2	2														1		1			6	Yamaguch

Tottori											1		1		2								1		5	Tottori
Kagawa					1		1									1	1						1		5	Kagawa
Ehime	1	1	1				1						1												5	Ehime
Akita	1		1						1								1								4	Akita
Fukushima			1										1			1		1							4	Fukushima
Toyama					2									1											3	Toyama
Miyazaki			1								1									1					3	Miyazaki
Ishikawa					1										1										2	Ishikawa
lwate		1																							1	lwate
Wakayama		1																							1	Wakayama
Saga												1													1	Saga
Oita																				1					1	Oita
Kagoshima					1																				1	Kagoshima
Tochigi																										Tochigi
Yamanashi																										Yamanashi
Kochi																										Kochi
Nagasaki																										Nagasaki
total	131	131	130	100	104	119	107	111	103	109	83	74	74	62	63	63	76	41	69	63	39	47	44	37	1,980	total

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