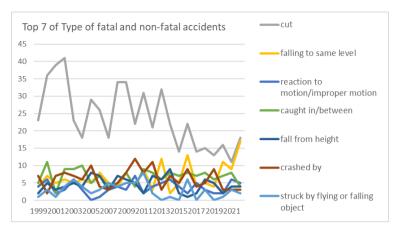
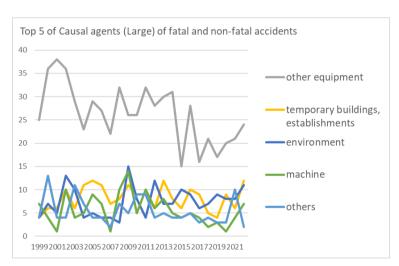
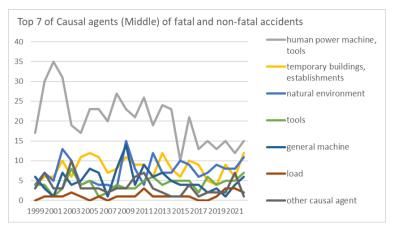
Transition of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)



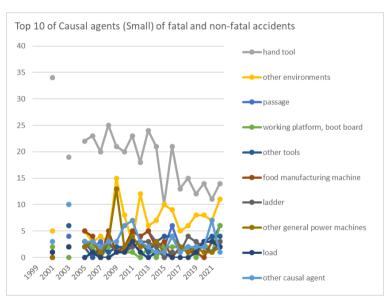
Transition of Top 7 of Type of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)



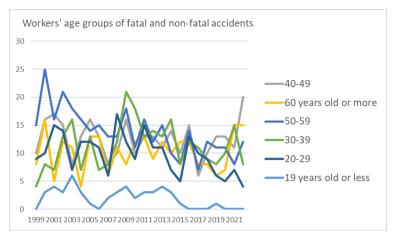
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)



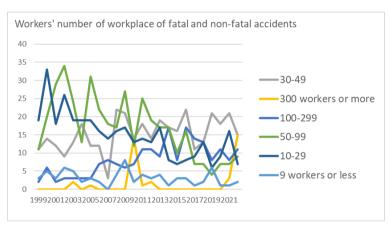
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)



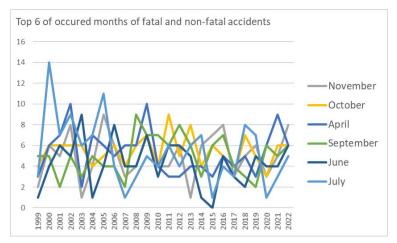
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)



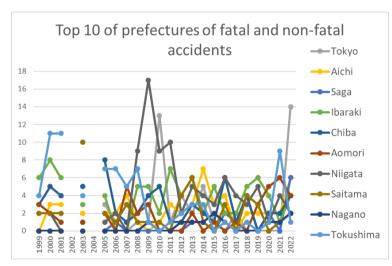
Transition of workers' age groups of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 150105 livestock process 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
cut	23	36	39	41	23	18	29	26	18	34	34	22	31	21	32	22	14	22	14	15	13	16	11	18	572	cut
falling to same level	4	7	5	6	5	6	5	8	5	4	8	4	9	3	12	2	5	13	4	5	4	11	9	17	161	falling to same level
		1																								

reaction to																										reaction to
motion/improper	4	6	2	3	6	3		1	3	4	3	7	2	4	5	6	4	2	5	3	2	2	6	5	88	motion/improper
motion																										motion
saught in/hatwoon	5	11	2	9	9	10	5	7	4	5	8	4	9	8	6	8	7	8	7	8	6	7	8	4	165	caught
caught in/between	3	11	2	9	9		3		4	5	0	4		0		0		0		0	0		0	4	163	in/between
fall from height	2	5	3	4	5	4	8	7	3	7	6	5	2	7	6	9	2	1	2	6	5	2	4	4	109	fall from height
crashed by	7	2	7	8	7	6	10	4	3	5	8	12	8	11	3	7	5	9	4	5	9	3	3	3	149	crashed by
struck by flying or	1	3	1	4	6	4	2	3	5	4	5	5	8	2		1		6		3		1	3	2	69	struck by flying
falling object	•		ľ																						09	or falling object
crash			2	1	1	2	2		2	3	3	3	1	3	1	1	5	2	3		1	2	1	2	41	crash
others		5	2	1	1		2	2						2		1	1	1	2	1	1		10	1	33	others
contact to high/low-																										contact to
		1		1	3	1	1				3		2	1			1	2	1	1	3	2	1	1	25	high/low-
temperature																										temperature
collapse		1													1	3								1	6	collapse
electric shock																								1	1	electric shock
contact to harmful																										contact to
substance		1					1	1					1								1				5	harmful
substance																										substance
traffic accident (public							2				1															traffic accident
road)			ľ				2																		4	(public road)
injury to the sole of							1													1						injury to the sole
the foot																									2	of the foot
drown						1																			1	drown
unclassifiable							1																		1	unclassifiable

explosion																										explosion
burst																										burst
fire																										fire
traffic accident																										traffic accident
(others)																										(others)
total	46	78	64	78	66	55	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	59	1,432	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 150105 livestock process 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)
other equipment	25	36	38	36	29	23	29	27	22	32	26	26	32	28	30	31	15	28	16	21	17	20	21	24	632	other equipment
temporary buildings, establishments	4	6	6	10	6	11	12	11	7	8	11	9	9	6	12	8	6	10	9	5	4	9	6	12	197	temporary buildings, establishments
environment	4	7	5	13	10	4	5	4	4	3	15	8	4	12	7	7	10	9	6	7	9	8	8	11	180	environment
machine	7	4	1	10	4	5	9	7	1	10	14	5	10	6	8	5	4	5	4	2	3	1	4	7	136	machine
others	4	13	4	4	11	7	4	4	2	7	5	9	9	4	5	4	4	5	3	4	3	3	10	2	130	others
load		1	1	1	2	1		1		1	1	1	3	1	1	1	1	1			1	3	3	2	27	load
substance, material		3	3		2		5	2	2	1	3	2	1	2		1	2	3	2	5	3	1	1	1	45	substance, material
crane, conveying machine	2	8	6	4	2	4	5	3	5	4	4	2	5	3	3	3	2	5	2	4	5	1	3		85	crane, conveying machine
total	46	78	64	78	66	55	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	59	1,432	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 150105 livestock process 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		Causal (M) agents
human power machine,	17	30	35	31	19	17	23	23	20	27	23	21	26	19	24	23	10	21	13	15	13	15	12	15	492	human power machine, tools
temporary buildings, establishments	4	6	6	10	6	11	12	11	7	8	11	9	9	6	12	8	6	10	9	5	4	9	6	12		temporary buildings, establishments
natural environment	4	7	5	13	10	4	5	4	4	3	15	8	4	12	7	7	10	9	6	7	9	8	8	11	180	natural environment
tools	4	4	1	3	8	4	5	1	2	4	3	3	5	6	4	5	5	5	2	6	4	5	5	7	101	tools
general machine	6	3	1	7	4	5	8	7	1	8	14	4	9	6	7	5	4	4	4	2	3	1	4	6	123	general machine
load		1	1	1	2	1		1		1	1	1	3	1	1	1	1	1			1	3	3	2	27	load
other causal agent	3	7	3	3	10	3	3	3	2	3	3	6	7	3	2	1	1	4	1	2	2	2	7	1	82	other causal agent
no causal agent	1	6		1	1	3		1		4	2	2	2	1	3	3	3	1	2	1	1	1	3	1	43	no causal agent
materials		2	2		2		3	1	2	1	2	2		2		1	1	2	2	4	2	1	1	1	34	materials
other equipments,	3	2	1	2	2	1	1	3		1		2		2	2	3		2	1				4	1	33	other equipments, facilities
construction machine												1	1											1	3	construction machine

electric equipment						1							1											1	3	electric equipment
conveying machine		6	4	3	1	4	2	1	5	3	3	1	5	3	2	2	2	1	1	1	4	1	2		57	conveying machine
crane	1	2	1	1	1		1	2		1		1			1	1		4	1	3	1		1		23	crane
hazards, harmful substances		1	1				2	1			1		1				1	1		1	1				11	hazards, harmful substances
vehicle	1		1				2				1														5	vehicle
unclassifiable			1			1	1					1								1					5	unclassifiable
power transmission mechanism				1			1			1								1							4	power transmission mechanism
woodworking machine		1		2						1															4	woodworking machine
pressure vessel	1		1											1											3	pressure vessel
metal manufacturing machine	1														1										2	metal manufacturing machine
engine																										engine
mobile silviculture machine																										mobile silviculture machine
chemical facilities																										chemical facilities

kiln, caldron																										kiln, caldron
kiln, caldron	46	78	64	78	66	55	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	59	1,432	

Transition of Causal agents (Small) of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)

hand tool other environments passage working platform,	34 5	19		22			$\overline{}$																
passage	5		II.	22	23	20	25	21	20	23	18	24	21	10	21	13	15	12	14	11	14	380	hand tool
		10		5	3	4	3	15	8	3	12	6	7	10	9	5	6	8	8	7	11	145	other environments
working platform		4		3	2	3	1	2	1	5	4	5	3	2	6	2	1	2	3	3	6	58	passage
boot board	2			3	2		2	2	1	1		2		2	2	2	2		3	1	6	33	working platform, boot board
other tools	1	6		2		2	1	2	2	3	3	1	3	4	4	1	2	1	3	4	4	49	other tools
food manufacturing machine	1	2		5	4		5	1	2	5	4	5	2	3		2	1	1		3	3	49	food manufacturing machine
ladder		2		3	1		3	1	1	2	3	3	2		1	1	4	3	2	1	3	36	ladder
other general power machines		2		2	3	1	3	13	2	4	2	2	3	1	4	2	1	2	1	1	2	51	other general power machines
load	1	2			1			1	1	3	1		1	1				1	3	3	2	21	load
other causal agent	3	10		3	3	2	3	3	6	7	3	2	1	1	4	1	2	2	2	7	1	66	other causal agent
no causal agent		1			1		4	2	2	2	1	3	3	3	1	2	1	1	1	3	1	32	no causal agent
other equipment,	1	2		1	3		1		2		2	2	3		2	1				4	1	25	other equipment,
other materials	2	2		1	1	2	1		1		2			1	2	1	4	2	1	1	1	25	other materials

human power								2	1	2			1						1		1	8	human power
hauling equipment									<u> </u>										l'				hauling equipment
leveling,																							leveling,
transporting or									1	1											1	3	transporting or
loading machine																							loading machine
mixer, grinder				1																	1	2	mixer, grinder
other electrical										1											1	2	other electrical
equipment																							equipment
stairs, landing stage		3	1	3	2	1	3	2	4		1		2	1			1	1	3	1		29	stairs, landing stage
other temporary																							other temporary
buildings,				2	3	3	1	2	1	1		2	3			2		1				21	buildings,
establishments																							establishments
conveyor		2	1			1	2		1	2	2	2			1	1	1	1	1			18	conveyor
building,			1											_								17	building,
establishment		I		'	2			2	1	2	1				I	3				I		17	establishment
truck		1			1	3		1		3	1			1				1		1		13	truck
crane			1	1			1						1		2		1			1		8	crane
other powered				1		1	1	1					1	1				1		1		8	other powered
conveying machines						ľ	ľ						1							I		0	conveying machines
other powered																		_					other powered
crane									I						2		2	1				7	crane
human power		1									1							1				,	human power
cranes		I		ľ			I			ľ	I							I		I		/	cranes
other hazards,		1		1				1						1	1		1	1				7	other hazards,
harmful substances																						"	harmful substances

high/cold																			high/cold
temperature					1				1		1			1	1	1	1	7	temperature
environment																			environment
metal material				2			2	1						1				6	metal material
forklift				1			1					1				1		4	forklift
cars, bus,		1					1											4	cars, bus,
motorcycle				2			ľ												motorcycle
opening							1	1			2							4	opening
unclassifiable		1		1				1							1			4	unclassifiable
power transmission				1		1							1					3	power transmission
mechanism				•									_						mechanism
elevator, lift					2									1				3	elevator, lift
scaffolding						1							1		1			3	scaffolding
harmful substance				1	1				1									3	harmful substance
machine/equipment						1					1		1					3	machine/equipment
as load																			as load
human power						1						1						2	human power
machine																			machine
chain saw						1												1	chain saw
grinding machine,											1							1	grinding machine,
buffing machine											'								buffing machine
mobile crane											1							1	mobile crane
loader		1																1	loader
boiler										1								1	boiler
other pressure																			other pressure

vessels		1												1	vessels
slinging tool										1				1	slinging tool
roof, beam, haze, crossbeam, principal rafter								1							roof, beam, haze, crossbeam, principal rafter
lumber, bamboo									1					1	lumber, bamboo
engine															engine
circular sawing machine															circular sawing machine
band sawing machine															band sawing machine
wood planer machine															wood planer machine
hollow chisel mortiser, wood borer															hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine															chamfering machine, router, woodworking milling machine
other woodworking															other woodworking
excavating machine															excavating machine
foundation work															foundation work

I 	 												
hardening machine													hardening machine
demolition machine													demolition machine
vehicle for high lift													vehicle for high lift
work													work
other construction													other construction
machines													machines
lathe													lathe
drill press, milling													drill press, milling
machine													machine
power press													power press
forging pressure													forging pressure
hammer													hammer
shearing machine													shearing machine
other metal													other metal
manufacturing													manufacturing
machines													machines
centrifugal machine													centrifugal machine
roll machine (except													roll machine (except
printingroll													printingroll
machine)													machine)
injection molding													injection molding
machine													machine
printing machine													printing machine
industrial robot													industrial robot
felling machine													felling machine

<u> </u>	السيا	 	 	 	 \sqsubseteq	 	 	الصطا		 			 	
mobile logging														mobile logging
machine														machine
skyline yarding														skyline yarding
machine														machine
other mobile														other mobile
silviculture machine														silviculture machin
derrick crane														derrick crane
cargo lifting														cargo lifting
appliance														appliance
gondola														gondola
lumberyard														lumberyard
equipment, logging														equipment, loggin
cableway														cableway
simple skyline														simple skyline
yarding equipment														yarding equipment
railway equipment														railway equipment
straddle carrier														straddle carrier
rough terrain hauler														rough terrain haule
railway vehicle														railway vehicle
other vehicles														other vehicles
pressure vessel														pressure vessel
chemical facilities														chemical facilities
gas welding														gas welding
equipment														equipment

arc welding																										arc welding
equipment																										equipment
other welding																										other welding
equipment																										equipment
kiln, caldron																										kiln, caldron
industrial dryer																										industrial dryer
other kiln, caldron																										other kiln, caldron
transmission																										transmission
electric power																										electric power
facilities																										facilities
timbering																										timbering
explosive substance																										explosive substance
inflammable																										inflammable
substance																										substance
inflammable gas																										inflammable gas
radiation																										radiation
stone, sand,																										stone, sand,
substance																										substance
natural ground,																										natural ground,
rock																										rock
standing tree																										standing tree
water																										water
abnormal																										abnormal
environment																										environment
total	46	78	64	78	66	55	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	59	1,432	total

Transition of workers' age groups of fatal and non-fatal accidents in 150105 livestock process service 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
40-49	10	16	17	15	8	13	16	13	8	10	16	10	13	13	11	14	10	15	6	10	13	13	11	20	301	40-49
60 years old or	R	16	5	12	11	4	13	13	6	11	8	12	13	9	12	10	12	12	8	8	6	7	15	15	246	60 years old or
more				12											12		12								240	more
50-59	15	25	16	21	18	16	14	15	13	13	18	11	16	12	15	10	8	14	7	12	11	11	8	12	331	50-59
30-39	4	8	7	13	16	7	13	7	8	12	21	18	13	14	13	16	8	12	11	9	8	10	15	8	271	30-39
20-29	9	10	15	14	7	12	12	11	6	17	12	9	15	11	11	7	5	13	10	9	6	5	7	4	237	20-29
19 years old or less		3	4	3	6	3	1		2	3	4	2	3	3	4	3	1				1				46	19 years old or less
total	46	78	64	78	66	55	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	59	1,432	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 150105 livestock process service 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
30-49	11	14	12	9	13	18	12	12	3	22	21	14	18	14	19	17	16	22	11	13	21	18	21	15	366	30-49
300 workers or					2		1					14	1	2									2	15	38	300 workers or
more												14													30	more
100-299	2	6	2	3	3	3	3	7	8	7	6	7	11	11	9	17	8	17	14	13	8	11	8	11	195	100-299
50-99	11	20	29	34	24	13	31	22	18	17	27	12	25	19	17	17	10	16	7	7	4	7	7	9	403	50-99
10-29	19	33	18	26	19	19	19	16	14	16	17	13	14	13	17	8	7	8	9	13	6	9	16	7	356	10-29
9 workers or less	3	5	3	6	5	2	3	2		4	8	2	4	3	4	1	3	3	1	2	6	1	1	2	74	9 workers or less
total	46	78	64	78	66	55	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	59	1,432	total

Transition of occured months of fatal and non-fatal accidents in 150105 livestock process service 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
November	2	6	5	8	1	4	9	6	3	4	7	4	4	6	1	6	7	8	3	5	6	3	5	8	121	November
October	4	6	6	6	6	4	5	6	4	6	7	4	9	5	8	4	6	5	3	7	5	3	6	6	131	October
April	3	6	7	10	2	7	6	5	6	6	10	4	3	3	4	4	3	5	4	5	3	6	9	6	127	April
September	5	5	2	5	3	5	4	4	2	9	7	7	6	8	6	3	6	7	4	3	2	6	5	6	120	September
June	1	4	6	5	9	1	4	8	4	4	7	3	6	6	5	1		5	3	2	5	4	4	6	103	June
July	3	14	7	9	6	7	11	4	1	3	5	4	6	4	6	7	1	4	3	8	7	1	3	5	129	July
January	6	8	6	6	4	3	1	4	6	8	3	2	5	2	5	7	6	7	5	3	2	4	4	5	112	January
February	4	7	4	6	3	4	5	6	5	2	6	6	6	5	7	9		5	1	3		4	6	5	109	February
March	5	5	2	7	10	6	11	5	2	4	10	8	9	7	6	1	3	6	4	2	4	2	2	4	125	March
May	7	5	8	7	7	1	4	4	6	5		7	5	4	9	8	6	6	2	3	3	4	5	3	119	May
December		5	5	5	5	8	3	3		7	7	6	8	3	2	5	2	2	4	3	3	3	3	3	95	December
August	6	7	6	4	10	5	6	4	4	8	10	7	6	9	7	5	4	6	6	4	5	6	4	2	141	August
total	46	78	64	78	66	55	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	59	1,432	total

Transition of prefectures of fatal and non-fatal accidents in 150105 livestock process service 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
Tokyo					2		3	1		1	1	13	1	4	2	5	1		2					14	50	Tokyo
Aichi		3	3		2		2	2	4	1		1	3	2	3	7	3	4		2	2	2	2	6	54	Aichi
Saga					1			1							1	1		2	1	4		2		6	19	Saga
Ibaraki	6	8	6		3		4			5	5	2	7	4	6	2	5	2	2	5	6	4	1	4	87	Ibaraki
Chiba	3	5	4		5		8	2	1	2	4	5	1	1	3	2	1	6	1	4		2	2	4	66	Chiba
Aomori	3	2	1		1		2		5	2	3				2		1		1		3	5	6	4	41	Aomori
Niigata	2	2					1	2		9	17	9	10	2	5	4	3	6	4	3	5	1	4	2	91	Niigata

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Saitama	2	2	2	10	2	1	3	1	1	1		4	6	1		3		4	3		1	2	49	Saitama
Nagano									1			1	1	1	2	1				1	1	2	11	Nagano
Tokushima	4	11	11	4	7	7	5	7	1		1	2	3	3		1		1		1	9	1	79	Tokushima
Gunma	2	6	1	1	3	2	1	2	1	5	5	3	6	8	1	5	6	2	1	4	5	1	71	Gunma
Hokkaido		1		3	2				2	1	1	3	2	4	5	5	1	3	6	6	4	1	50	Hokkaido
Fukuoka	4	9	1	1	3	4	2	1	4		2	2	1		2	3	1	2	1	2	3	1	49	Fukuoka
Yamagata	1	1	3	6		4	2	2	2	1	2	3	1			3	3	1	2	1	3	1	42	Yamagata
Shiga	2	1	2	1	1			6	2		1	4	1		1	1		1	2	1	3	1	31	Shiga
Okinawa	4	4		1	1	1					1	2	4	1	1		2	1	1	1	1	1	27	Okinawa
Fukushima		1		2		1	1		1			1				2	2		1		4	1	17	Fukushima
Kagawa		3	1	2		2					2				1	2		1			2	1	17	Kagawa
Yamanashi						1			1			2	2		1		3	2		2	1	1	16	Yamanashi
Nagasaki				2	1	1		1		2	1					1	3	1	1			1	15	Nagasaki
Tochigi	1		1					2				2					1	1	1	3		1	13	Tochigi
Kyoto	1	2		1										1		2					2	1	10	Kyoto
lwate											1					1					1	1	4	lwate
Toyama														1		1						1	3	Toyama
Kanagawa		3	17	9	8	10	7	12	14	12	15	11	5	8	4	3		1	1				140	Kanagawa
Kumamoto	3	3	2		5	4	4	3	2	2	3			2	6	4	3	1	3	2			52	Kumamoto
Oita		1	4	2	1		1	2	1		5			5	1	1	2	3	1	1			31	Oita
Shizuoka		2	1		1	3	1		2	3	4	2	5				1			1			26	Shizuoka
Hyogo					3				2	2	1	2	2		1	2			1	2			18	Hyogo
Mie	1		1	2	1	1		1	2					1	2	1			1	1			15	Mie
																			1				1	

Shimane		1			1		1	2		1		1	3			1			1		2				14	Shimane
Kagoshima	1	3							1		5			1	1		1			1					14	Kagoshima
Gifu	4		1		1				1	2		1			1								1		12	Gifu
Miyazaki		1			2		5	3			1														12	Miyazaki
Ishikawa							1	1			1	1	3					1		2					10	Ishikawa
Hiroshima			1				2	1		2						1		2							9	Hiroshima
Osaka							1	1	1					1		1	1		1						7	Osaka
Okayama									2		2									2		1			7	Okayama
Miyagi					1				1						3										5	Miyagi
Yamaguchi	1							1			1			2											5	Yamaguchi
Kochi	1	1																	1		1				4	Kochi
Akita		2																							2	Akita
Fukui														1				1							2	Fukui
Nara			1																						1	Nara
Wakayama										1															1	Wakayama
Tottori																										Tottori
Ehime																										Ehime
total	46	78	64	78	66	55	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	59	1,432	total

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