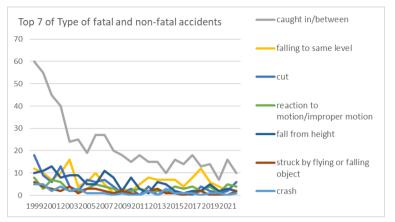
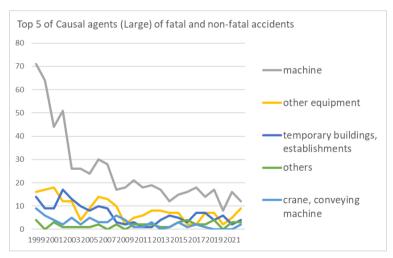
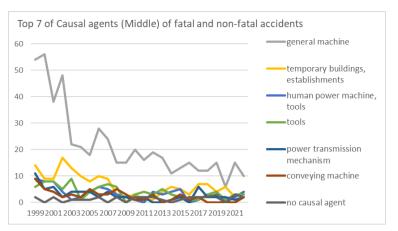
Transition of fatal and non-fatal accidents in 010202 cotton-spinning in Japan (1999-2022)



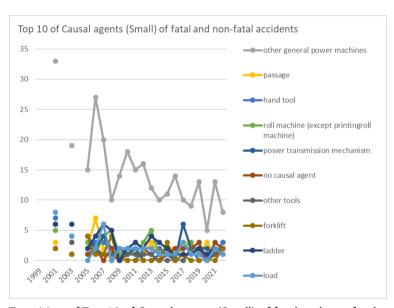
Transition of Top 7 of Type of fatal and non-fatal accidents in 010202 cotton-spinning in Japan (1999-2022)



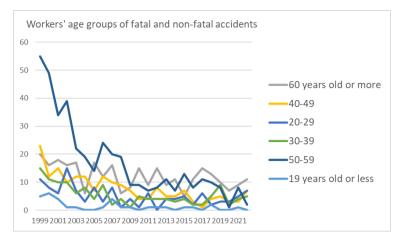
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 010202 cotton-spinning in Japan (1999-2022)



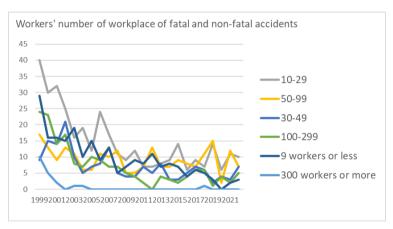
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 010202 cotton-spinning in Japan (1999-2022)



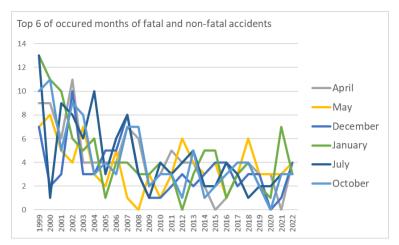
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 010202 cotton-spinning in Japan (1999-2022)



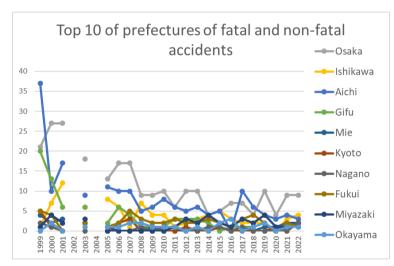
Transition of workers' age groups of fatal and non-fatal accidents in 010202 cotton-spinning in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 010202 cotton-spinning in Japan (1999-2022)



Transition of Top 6 of occured months of fatal and non-fatal accidents in 010202 cotton-spinning in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 010202 cotton-spinning in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 010202 cotton-spinning 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	60	55	45	40	24	25	19	27	27	20	18	15	18	15	15	10	16	14	18	13	14	7	16	10	541	caught
																										in/between
falling to same level	12	10	7	10	16	4	6	10	5	1	3	2	5	8	7	7	7	4	8	12	6	4	2	6	162	falling to same

																										level
cut	18	9	6	13	4	2	7	6	7	4	1	3		4		2	1	1		4	2	1	2	6	103	cut
reaction to motion/improper motion	8	3	7	6	2	2	3	5	4	3	1	2	3	2	2	2	4	3	4	2	4	1	5	4	82	reaction to motion/improper motion
fall from height	10	11	13	8	9	9	5	5	11	8	2	8	3	1	6	5	2	1	2	2	5	2	3	2	133	fall from height
struck by flying or falling object	6	4	3	2	4	1	3	3	2	1	2	1		2	3	1	1		1	2				2	44	struck by flying or falling object
crash	5	5	2	4	2	3	1	1	1		1			2		3	1	1	1		1	1		1	36	crash
crashed by	6	4	2	2	2	2	3	3	1	3	1	1			1		2		1					1	35	crashed by
contact to high/low- temperature	1		2	2				1					1	1				1		1	2				12	contact to high/low- temperature
collapse	1			2	2		1		1			1									1		1		10	collapse
traffic accident (public		1					1				1		1	1											5	traffic accident (public road)
contact to harmful substance	1			1																			1		3	contact to harmful substance
others									1								1	1							3	others
unclassifiable	1						1											1							3	unclassifiable
injury to the sole of the foot				1																					1	injury to the sole
electric shock												1													1	electric shock
drown																										drown

explosion																										explosion
burst																										burst
fire																										fire
traffic accident																										traffic accident
(others)																										(others)
total	129	102	87	91	65	48	50	61	60	40	30	34	31	36	34	30	35	27	35	36	35	16	30	32	1,174	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 010202 cotton-spinning 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	71	64	44	51	26	26	24	30	28	17	18	21	18	19	17	12	15	16	18	14	17	8	16	12	602	machine
other equipment	16	17	18	12	12	4	9	14	13	10	2	5	6	8	8	7	7	2	2	7	7	2	5	9	202	other equipment
temporary buildings, establishments	14	9	9	17	13	10	8	10	9	3	2	3	1	1	4	6	5	3	7	7	4	6	2	4	157	temporary buildings, establishments
others	4		3	1	1	1	1	2		2		2	2	2	1	1	3	4	2	2	4		3	3	44	others
crane, conveying machine	9	6	4	2	5	2	5	3	3	6	4	1	1	3		1	3	1	2	1				2	64	crane, conveying machine
load	11	4	8	4	4	2	1	2	6	1	2	2	2	2	2	1	1	1	4	1	1		2	1	65	load
substance, material	4	2		3	4	3	1		1	1	2				2		1			3			2	1	30	substance, material
environment			1	1			1						1	1		2				1	2				10	environment
total	129	102	87	91	65	48	50	61	60	40	30	34	31	36	34	30	35	27	35	36	35	16	30	32	1,174	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 010202 cotton-spinning 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)
general machine	54	56	38	48	22	21	18	28	24	15	15	20	16	19	17	11	13	15	12	12	15	6	15	10	520	general machine
temporary buildings, establishments	14	9	9	17	13	10	8	10	9	3	2	3	1	1	4	6	5	3	7	7	4	6	2	4	157	temporary buildings, establishments
human power machine, tools	9	8	8	4	1	2	4	6	5	3	2	1		4	3	4	5		1	3	2		2	4	81	human power machine, tools
tools	6	8	8	5	9	1	4	6	7	6		3	4	3	5	3	2	1	1	3	4	1	3	3	96	tools
power transmission mechanism	11	5	6	2	4	4	4	2	4	2	2	1	2			1	2		6	2	2	2	1	2	67	power transmission mechanism
conveying machine	9	5	4	2	3	2	5	3	3	5	3	1	1	3		1	3	1	2					2	58	conveying machine
no causal agent	2		2		1	1	1	2		2		2	2	2	1		1	2	2	2	3		3	2	33	no causal agent
load	11	4	8	4	4	2	1	2	6	1	2	2	2	2	2	1	1	1	4	1	1		2	1	65	load
materials	3	2		2	4	3	1		1	1	2				2		1			3			1	1	27	materials
other equipments,	1	1	2	1	1			2	1	1			1	1				1			1	1		1	16	other equipments, facilities
																										other causal

other causal agent	1		1	1										1	2	2		1		1	10	agent
electric equipment						1	1				1									1	4	electric equipment
metal manufacturing machine	5	3		1		1	2									1					13	metal manufacturing machine
natural environment			1	1			1					1	1	2			1	2			10	natural environment
crane					2				1								1				4	crane
pressure vessel				1	1							1									3	pressure vessel
hazards, harmful substances	1			1															1		3	hazards, harmful substances
woodworking machine	1									1											2	woodworking machine
vehicle		1								1											2	vehicle
kiln, caldron				1													1				2	kiln, caldron
unclassifiable	1																				1	unclassifiable
engine																						engine
construction machine																						construction machine
mobile silviculture machine																						mobile silviculture machine chemical

chemical facilities																										facilities
welding equipment																										welding
																										equipment
total	129	102	87	91	65	48	50	61	60	40	30	34	31	36	34	30	35	27	35	36	35	16	30	32	1,174	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 010202 cotton-spinning 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			33		19		15	27	20	10	14	18	15	16	12	10	11	14	10	9	13	5	13	8	292	other general power machines
passage			3		4		2	7	2		1			1	3	1	2	2	3	3	1	3	1	3	42	passage
hand tool			7		1		2	3	3	2				2	1	2	1			2			1	3	30	hand tool
roll machine (except printingroll machine)			5		3		3	1	4	5	1	2	1	3	5	1	2	1	2	3	1	1	1	2		roll machine (except printingroll machine)
power transmission mechanism			6		4		4	2	4	2	2	1	2			1	2		6	2	2	2	1	2	45	power transmission mechanism
no causal agent			2		1		1	2		2		2	2	2	1		1	2	2	2	3		3	2	30	no causal agent
other tools			2		3		2	2	1	1		1	1	1	1					2	2		1	2	22	other tools
forklift			2		1		4	1	1	4							3		1					2	19	forklift
ladder			6		6		2	4	6	5		2	3	2	4	3	2	1	1	1	2	1	2	1	54	ladder
load			8		4			2	6		2	2	2	2	2	1	1	1	3	1	1		2	1	41	load
human power hauling equipment			1				2	3	1	1	2	1		2	2	2	3		1	1	2		1	1	26	human power hauling equipment
stairs, landing stage			1		1		1	1	3	1		1				1	1		1		1			1	14	stairs, landing stage

other equipment,		2	1		2	1	1			1	1				1			1	1		1	13	other equipment,
other materials			3	1								2					1			1	1	9	other materials
other causal agent		1											1	2	2			1			1	8	other causal agent
other electrical equipment				1					1												1	3	other electrical equipment
working platform, boot board		4	5	3	2	2	1	1	1	1			1	2		2	1	2	1			29	working platform, boot board
conveyor		2	2		2	1		2			2		1		1							13	conveyor
other temporary buildings, establishments				1		2	1								1	1	2		1	1		10	other temporary buildings, establishments
building, establishment		1	1	1					1				2						1			7	building, establishment
metal material			1				1	2						1			1					6	metal material
truck				1						1	1					1						4	truck
other powered conveying machines						1	1	1	1													4	other powered conveying machines
high/cold temperature environment		1															1	2				4	high/cold temperature environment
other environments										1	1		2									4	other environments
roof, beam, haze, crossbeam, principal rafter			2														1					3	roof, beam, haze, crossbeam, principal rafter

machine/equipment				1		1						1				3	machine/equipment
as load																	as load
elevator, lift			2													2	elevator, lift
human power					1					1						2	human power
machine																	machine
lumber, bamboo					1								1			2	lumber, bamboo
circular sawing							1									1	circular sawing
machine																	machine
lathe				1												1	lathe
drill press, milling				1												1	drill press, milling
machine																Ľ	machine
grinding machine,											1					1	grinding machine,
buffing machine																Ľ	buffing machine
mixer, grinder														1		1	mixer, grinder
industrial robot															1	1	industrial robot
crane													1			1	crane
other powered						1										1	other powered
crane																	crane
cars, bus,							1									1	cars, bus,
motorcycle							•									Ľ	motorcycle
pressure vessel								1								1	pressure vessel
other pressure			1													1	other pressure
vessels																	vessels
other kiln, caldron													1			1	other kiln, caldron
scaffolding									1							1	scaffolding

ĮL	 													 	 				 1			
opening														1							1	opening
other hazards,																			1		1	other hazards,
harmful substances																			•			harmful substances
water						1															1	water
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																						other woodworking
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
vehicle for high lift													vehicle for high lift
work													work
other construction													other construction
machines													machines
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
injection molding													injection molding
machine													machine
food manufacturing													food manufacturing
machine													machine
printing machine													printing machine
felling machine													felling machine
mobile logging													mobile logging
machine													machine
skyline yarding													skyline yarding
machine													machine
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
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
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
transmission													transmission
electric power													electric power
facilities													facilities
human power													human power
cranes													cranes
slinging tool													slinging tool
timbering													timbering
explosive substance													explosive substance
inflammable													inflammable
substance													substance
inflammable gas													inflammable gas
harmful substance													harmful substance
radiation													radiation
stone, sand,													stone, sand,
substance													substance
natural ground,													natural ground,
rock													rock
standing tree													standing tree
abnormal													abnormal
environment													environment
unclassifiable													unclassifiable

total	129	102	87	91	65	48	50	61	60	40	30	34	31	36	34	30	35	27	35	36	35	16	30	32	1,174	total	
II	ll ll	ll.	ll l		II	II	ll .		II	II	II	'	(l	II	II	ll .	II	II	II	II	II	II		II	11 ' 11		al .

Transition of workers' age groups of fatal and non-fatal accidents in 010202 cotton-spinning 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
60 years old or	20	16	18	16	17	6	17	12	16	6	8	15	9	15	9	11	5	11	15	13	10	7	9	11	292	60 years old or
more	20		10		17			12																	292	more
40-49	23	12	15	10	12	12	7	12	10	9	7	4	4	8	5	5	7	3	1	4	5	3	3	7	188	40-49
20-29	11	8	6	15	7	3	8	3	8	1	4	1	6		4	4	5	2	6	2	3	3	5	7	122	20-29
30-39	15	11	10	10	6	8	4	9	2	4	1	5	4	4	4	3	4	2	2	5	9	2	4	5	133	30-39
50-59	55	49	34	39	22	19	14	24	20	19	9	9	7	8	11	7	13	8	11	10	8	1	8	2	407	50-59
19 years old or less	5	6	4	1	1			1	4	1	1		1	1	1		1	1		2			1		32	19 years old or less
total	129	102	87	91	65	48	50	61	60	40	30	34	31	36	34	30	35	27	35	36	35	16	30	32	1,174	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 010202 cotton-spinning 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	40	30	32	25	16	19	12	24	17	11	9	12	7	7	8	9	14	6	9	7	14	6	11	10	355	10-29
50-99	17	13	9	13	11	6	6	11	10	12	5	5	7	13	7	7	9	8	7	11	15	2	12	7	223	50-99
30-49	9	15	14	21	10	5	7	8	13	5	4	4	7	5	8	3	3	5	7	6	2	4	3	7	175	30-49
100-299	24	23	14	17	8	7	10	9	7	7	5	4	2		4	3	2	4	6	6	1	4	2	5	174	100-299
9 workers or less	29	16	16	15	19	10	15	9	13	5	7	9	8	11	7	8	7	4	6	5	3		2	3	227	9 workers or less
300 workers or	10	5	2		1	1														1					20	300 workers or
more					<u> </u>	ļ .														'					20	more
total	129	102	87	91	65	48	50	61	60	40	30	34	31	36	34	30	35	27	35	36	35	16	30	32	1,174	total

Transition of occured months of fatal and non-fatal accidents in 010202 cotton-spinning 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
April	9	9	6	11	4	4	4	4	7	6	2	3	5	4	4	2		1	3	4	3	3		4	102	April
May	7	8	5	4	7	3	2	5	1		3	1	3	6	4	3	4	1	3	6	3	3	3	4	89	May
December	7	2	3	10	3	3	5	5	8	3	1	1	2	3	2	3	4	4	2	3	3		1	4	82	December
January	13	11	10	6	5	6	1	4	4	3	3	4	3		3	5	5	1	3	4	2	1	7	3	107	January
July	13	1	9	8	6	10	3	6	8	3	1	4	3	4	5	2	2	4	3	1	2	2	3	3	106	July
October	10	11	5	9	8	3	4	3	7	7	2	3	3	1	5	1	2	3	4	4	2		3	3	103	October
August	12	9	5	11	6	5	6	5	6	1	1	4	1	4	2	2	2	2	3	1	5	2	2	3	100	August
February	11	10	9	7	6	3	5	8	3	7	4	1	2	4	2	4	5	4	2		3		1	2	103	February
March	17	14	5	4	3	4	3	7	5	3	2	2	4	3		1	3	2	3	8	3	1	3	2	102	March
November	10	9	8	8	6	1	4	5	5	2	3	4	1	3	2	3	1	3	5	1	1	2	1	2	90	November
September	10	8	6	7	5	2	7	2	1	2	4	4	3	3	4	2	3	2	2	2	5		1	2	87	September
June	10	10	16	6	6	4	6	7	5	3	4	3	1	1	1	2	4		2	2	3	2	5		103	June
total	129	102	87	91	65	48	50	61	60	40	30	34	31	36	34	30	35	27	35	36	35	16	30	32	1,174	total

Transition of prefectures of fatal and non-fatal accidents in 010202 cotton-spinning 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	21	27	27		18		13	17	17	9	9	10	6	10	10	4	5	7	7	4	10	4	9	9	253	Osaka
Ishikawa	1	7	12		6		8	6	1	7	4	4	1	2	3	4	5	3	2	2	2		3	4	87	Ishikawa
Aichi	37	10	17		9		11	10	10	5	6	8	6	5	6	4	5		10	6	4	3	4	3	179	Aichi
Gifu	20	13	6		6		2	6	4	1	1	1	3	3	3	2		1	1	1	2		1	2	79	Gifu
Mie	4	2	3		2		1				1						1				1	1	2	2	20	Mie
Kyoto	5	1			2			2	3					1			1					1		2	18	Kyoto

====	_	1		==	1	i===			i —	-			_	i —	-	i	-	1	i	-		-	1	i	
Nagano	2	1							1		1	1			1	1		1					2	11	Nagano
Fukui	5	4		2		1	2	5	3	2	2	3	2	2	3	2	1	3	4	2		2	1	51	Fukui
Miyazaki	1	4	2	3								1	3	2	4	2	1	3	2	4	1	1	1	35	Miyazaki
Okayama		2		1		1	1	2	2	1	1	1		1		2	3		1	2		1	1	23	Okayama
Shiga	3	1		1		1		1	2	1				1	2	1		2	2	1		2	1	22	Shiga
Nagasaki	1		1					1					2			2	2		1	2	1	2	1	16	Nagasaki
Miyagi		2					1			1		2							1	1			1	9	Miyagi
Kanagawa		1										1	1						2				1	6	Kanagawa
Ehime																							1	1	Ehime
Kumamoto	2	2	4	2		1	3	1	1		1		1	1	1	2	3	1	4	3	1			34	Kumamoto
Hiroshima	4	2	2	3		1	1	4			2		1		1	1								22	Hiroshima
Shimane		3	2				2	1	2	1			1	1			1		1		2	1		18	Shimane
Kagoshima	5	3	1	1		1	2	1								1	2	1						18	Kagoshima
Toyama	2	2	1	1		1			1			3	1		1		2	1				1		17	Toyama
Wakayama	3	2	1	2		1	1	2	1			1			1	1			1					17	Wakayama
Shizuoka	2	3	2	1		2			1	1	1							1						14	Shizuoka
Hyogo	2	2	1			1	1	1		1	1		1	2		1								14	Hyogo
Yamagata	2	1	1	1					2				1			1					1			10	Yamagata
Niigata	1			1			1	1		1	1	1	1						2					10	Niigata
Saga		1	1	2			1	2	1							1								9	Saga
Oita	1	2		1							1			1	1				1			1		9	Oita
Kagawa		1	1			1	1		1									1		1				7	Kagawa
Fukushima							1	2							1			1						5	Fukushima

Tokyo	1						1		1									1							4	Tokyo
Ibaraki			1				1	1																	3	lbaraki
Gunma	2	1																							3	Gunma
Tottori	1												1							1					3	Tottori
Yamanashi	1	1																							2	Yamanashi
Kochi							1								1										2	Kochi
Chiba								1																	1	Chiba
Nara			1																						1	Nara
Yamaguchi																						1			1	Yamaguchi
Tokushima		1																							1	Tokushima
Hokkaido																										Hokkaido
Aomori																										Aomori
lwate																										lwate
Akita																										Akita
Tochigi																										Tochigi
Saitama																										Saitama
Fukuoka																										Fukuoka
Okinawa																										Okinawa
total	129	102	87	91	65	48	50	61	60	40	30	34	31	36	34	30	35	27	35	36	35	16	30	32	1,174	total

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