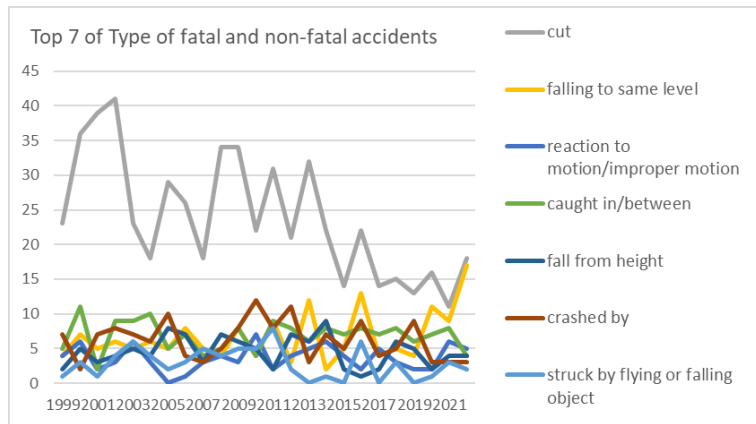
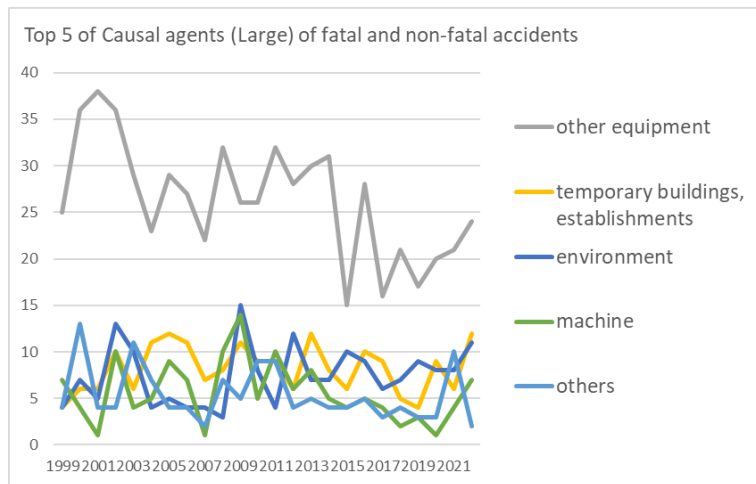


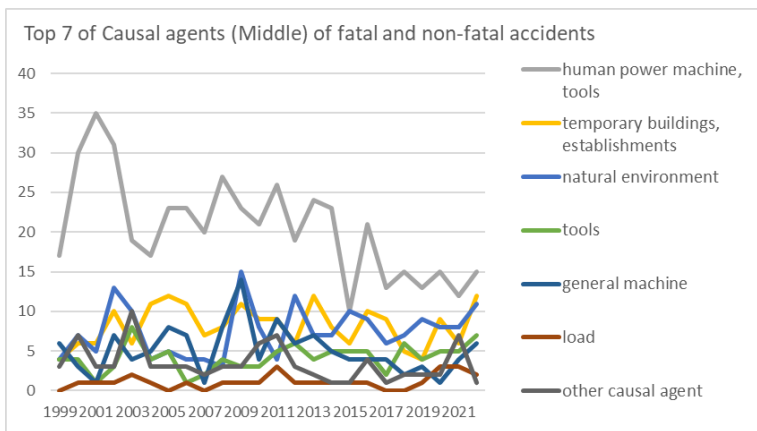
Transition of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)



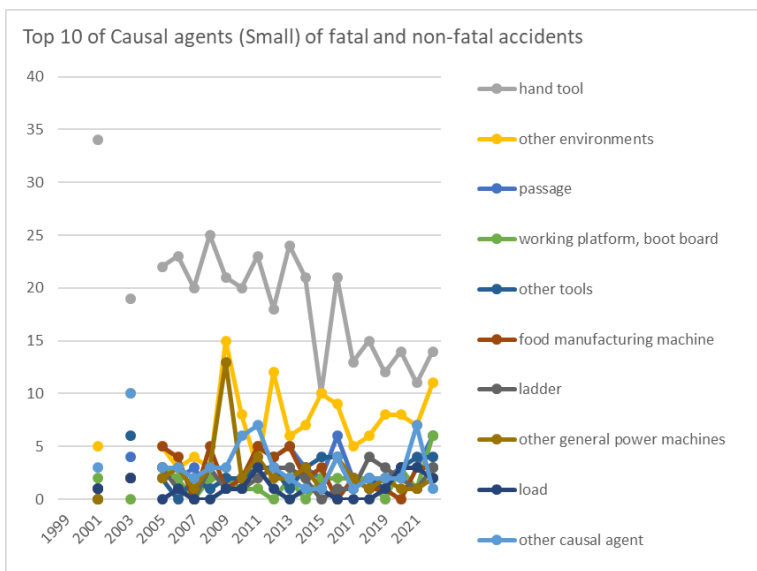
Transition of Top 7 of Type of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)



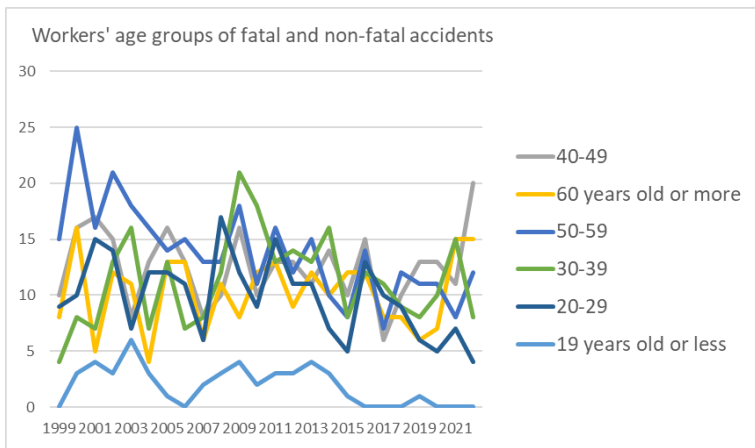
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)



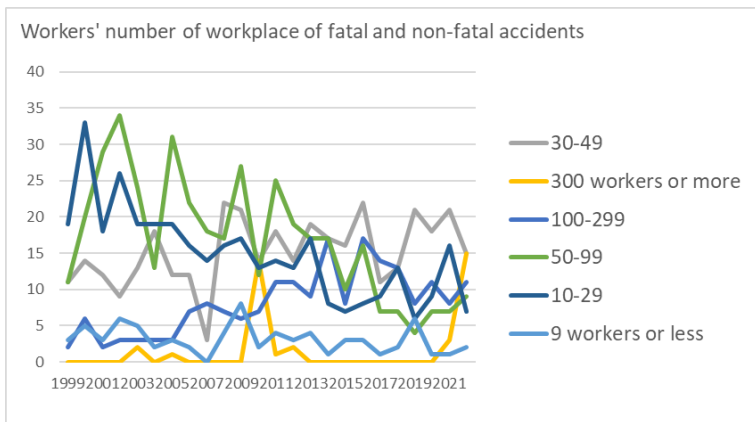
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)



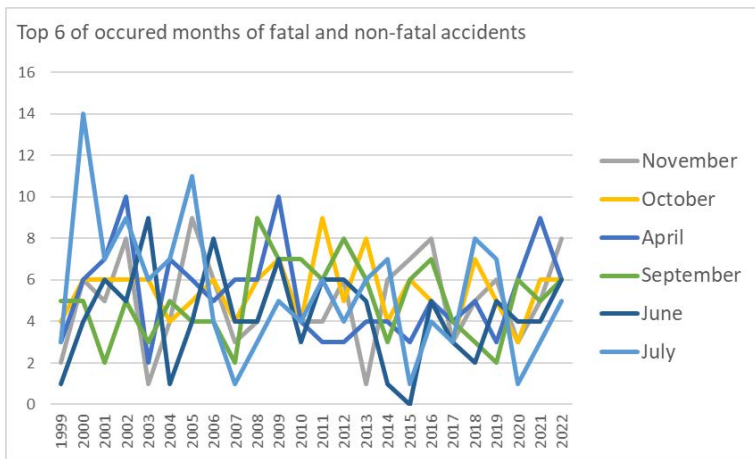
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)



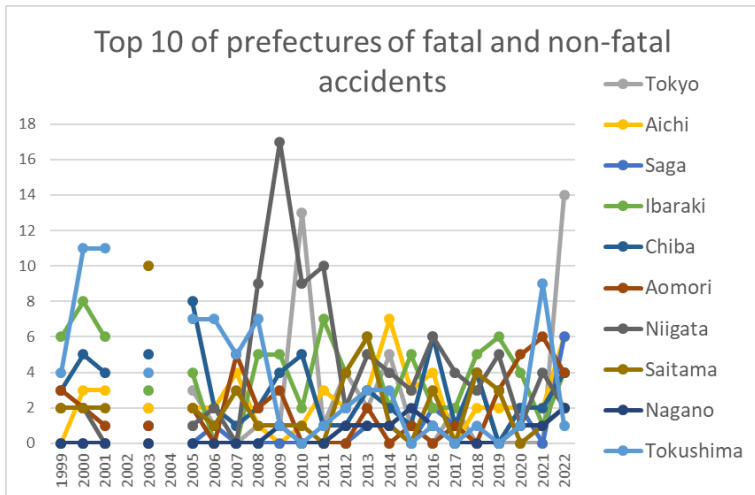
Transition of workers' age groups of fatal and non-fatal accidents in 150105 livestock process service in Japan (1999-2022)



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 occurred 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

reaction to motion/improper motion	4	6	2	3	6	3		1	3	4	3	7	2	4	5	6	4	2	5	3	2	2	6	5	88	reaction to motion/improper motion	
caught in/between	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 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 falling object	1	3	1	4	6	4	2	3	5	4	5	5	8	2		1		6		3		1	3	2	69	struck by flying 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-temperature		1		1	3	1	1					3		2	1			1	2	1	1	3	2	1	1	25	contact to high/low-temperature
collapse		1													1	3								1	6	collapse	
electric shock																								1	1	electric shock	
contact to harmful substance		1					1	1					1								1				5	contact to harmful substance	
traffic accident (public road)			1				2					1													4	traffic accident (public road)	
injury to the sole of the foot							1													1					2	injury to the sole of the foot	
drown						1																			1	drown	
unclassifiable							1																		1	unclassifiable	

explosion																																																			explosion	
burst																																																				burst
fire																																																				fire
traffic accident (others)																																																				traffic accident (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) agents
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	total	Causal (M) agents
human power machine, tools	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	197	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, facilities	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

welding equipment																																welding equipment
kiln, caldron																																kiln, caldron
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 (Small) of fatal and non-fatal accidents in 150105 livestock process 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	
hand tool			34		19		22	23	20	25	21	20	23	18	24	21	10	21	13	15	12	14	11	14	380	hand tool	
other environments			5		10		5	3	4	3	15	8	3	12	6	7	10	9	5	6	8	8	7	11	145	other environments	
passage					4		3	2	3	1	2	1	5	4	5	3	2	6	2	1	2	3	3	6	58	passage	
working platform, boot board			2				3	2		2	2	1	1		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, facilities			1		2		1	3		1		2		2	2	3		2	1					4	1	25	other equipment, facilities
other materials			2		2		1	1	2	1		1		2			1	2	1	4	2	1	1	1	25	other materials	

human power hauling equipment											2	1	2									1	1	8	human power hauling equipment	
leveling, transporting or loading machine												1	1											1	3	leveling, transporting or loading machine
mixer, grinder																								1	2	mixer, grinder
other electrical equipment																								1	2	other electrical 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 buildings, establishments																									21	other temporary buildings, establishments
conveyor			2		1							1	2	2	2				1	1	1	1	1		18	conveyor
building, establishment			1		1		1	2				2	1	2	1				1	1	3			1	17	building, establishment
truck			1																						13	truck
crane					1		1																		8	crane
other powered conveying machines																									8	other powered conveying machines
other powered crane			1																						7	other powered crane
human power cranes			1																						7	human power cranes
other hazards, harmful substances			1																						7	other hazards, harmful substances

vessels			1																			1	vessels	
slinging tool														1									1	slinging tool
roof, beam, haze, crossbeam, principal rafter													1										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 machines																								other woodworking machines
excavating machine																								excavating machine
foundation work machine																								foundation work machine

arc welding equipment																									arc welding equipment	
other welding equipment																									other welding equipment	
kiln, caldron																									kiln, caldron	
industrial dryer																									industrial dryer	
other kiln, caldron																									other kiln, caldron	
transmission																									transmission	
electric power facilities																									electric power facilities	
timbering																									timbering	
explosive substance																									explosive substance	
inflammable substance																									inflammable substance	
inflammable gas																									inflammable gas	
radiation																									radiation	
stone, sand, substance																									stone, sand, substance	
natural ground, rock																									natural ground, rock	
standing tree																									standing tree	
water																									water	
abnormal environment																									abnormal 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 more	8	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
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 more					2		1					14	1	2									3	15	38	300 workers or 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 occurred 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

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
Iwate													1					1					1	1	4	Iwate
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

Shimane		1			1		1	2		1		1	3			1			1							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		

Data Source : <https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html> MHLW, Jaan

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