Fatal and non-fatal accidents in livestock process service in Japan in 1999-2021

livestock process service industry Code No.150105

Type of accidents in livestock process service in 1999-2021

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	total	Type of accidents
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	105	fall from height
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	144	falling to same level
crash			2	1	1	2	2		2	3	3	3	1	3	1	1	5	2	3		1	2	1	39	crash
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	67	struck by flying or falling object
collapse		1													1	3								5	collapse
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	146	crashed by
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	161	caught in/between
cut	23	36	39	41	23	18	29	26	18	34	34	22	31	21	32	22	14	22	14	15	13	16	11	554	cut
injury to the sole of the foot							1													1				2	injury to the sole of the foot
drown						1																		1	drown
contact to high/low- temperature		1		1	3	1	1				3		2	1			1	2	1	1	3	2	1	24	contact to high/low- temperature

contact to harmful																									contact to
		1					1	1					1								1			5	harmful
substance																									substance
electric shock																									electric shock
explosion																									explosion
burst																									burst
fire																									fire
traffic accident (public											1													4	traffic accident
road)			I				2				I														(public road)
traffic accident																									traffic accident
(others)																									(others)
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	83	motion/improper
motion																									motion
others		5	2	1	1		2	2						2		1	1	1	2	1	1		10	32	others
unclassifiable							1																	1	unclassifiable
total	46	78	64	78	66	55	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	1,373	total

Causal agents (large) of fatal and non-fatal accidents in livestock process service in 1999-2021

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		Causal (L)
Causar (L) agents		2000	2001	2002	2003	2004	2003	2000	2007	2000	2003	2010	2011	2012	2013	2014	2013	2010	2017	2010	2017	2020	2021		agents
machine	7	4	1	10	4	5	9	7	1	10	14	5	10	6	8	5	4	5	4	2	3	1	4	129	machine
crane, conveying																									crane,

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	conveying
machine																									machine
athor aguinment	25	36	38	36	29	23	29	27	22	32	26	26	32	28	30	31	15	28	16	21	17	20	21	608	other
other equipment	25	30	36	30	29	23	29	27	22	32	20	20	32	20	30	31	13	20	10	21		20	21	000	equipment
tompovom buildings																									temporary
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	185	buildings,
establishments																									establishments
substance, material		2	3		2		5	2	2	1	3	2	1	2		1	2	3	2	5	3	1	1	44	substance,
substance, material																								77	material
load		1	1	1	2	1		1		1	1	1	3	1	1	1	1	1			1	3	3	25	load
environment	4	7	5	13	10	4	5	4	4	3	15	8	4	12	7	7	10	9	6	7	9	8	8	169	environment
others	4	13	4	4	11	7	4	4	2	7	5	9	9	4	5	4	4	5	3	4	3	3	10	128	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	1,373	total

Causal agents (middle) of fatal and non-fatal accidents in livestock process service in 1999-2021

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	total	Causal (M) agents
engine																									engine
power transmission mechanism				1			1			1								1						4	power transmission mechanism
woodworking machine		1		2						1														4	woodworking machine

construction machine												1	1											2	construction
																									machine
metal manufacturing																									metal
machine	1														1									2	manufacturing
																									machine
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	117	general
																									machine
mobile silviculture																									mobile
machine																									silviculture
																									machine
crane	1	2	1	1	1		1	2		1		1			1	1	1	4	1	3	1		1	23	crane
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
vehicle	1		1	1	<u> </u>		2				1													5	vehicle
pressure vessel	1		1											1										3	pressure vessel
chemical facilities																									chemical
enemical racinities																									facilities
welding equipment																									welding
werding equipment																									equipment
kiln, caldron																									kiln, caldron
electric equipment						1							1											2	electric
electric equipment						ı																			equipment
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	477	human power
tools	'	30	ردر	١٥١	13	'	23	23	20		23	Z 1	20	19	24	23	10	Z 1	١٥	13	13	دا	12	+//	machine, tools

tools	4	4	1	3	8	4	5	1	2	4	3	3	5	6	4	5	5	5	2	6	4	5	5	94	tools
other equipments,	3	2	1	2	2	1	1	3		1		2		2	2	3		2	1				4		other equipments, facilities
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		temporary buildings, establishments
hazards, harmful substances		1	1				2	1			1		1				1	1		1	1			11	hazards, harmful substances
materials		2	2		2		3	1	2	1	2	2		2		1	1	2	2	4	2	1	1	33	materials
load		1	1	1	2	1		1		1	1	1	3	1	1	1	1	1			1	3	3	25	load
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	169	natural environment
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	81	other causal
no causal agent	1	6		1	1	3		1		4	2	2	2	1	3	3	3	1	2	1	1	1	3	42	no causal agent
unclassifiable			1			1	1					1								1				5	unclassifiable
total	46	78	64	78	66	55	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	1,373	total

Causal agents (small) of fatal and non-fatal accidents in livestock process service in 1999-2021

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	total	Causal (S) agents

engine															engine
power transmission mechanism				1		1					1			3	power transmission mechanism
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
chain saw						1								1	chain saw
other woodworking machines															other woodworking machines
leveling, transporting or loading machine							1	1						2	leveling, transporting or loading machine
excavating machine															excavating machine
foundation work machine															foundation work

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
grinding machine,							1					1	grinding machine,
buffing machine												•	buffing 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
mixer, grinder			1									1	mixer, grinder
roll machine (except													roll machine (except
printingroll													printingroll
machine)													machine)
injection molding													injection molding

machine																						machine
food manufacturing		1	2	5	4		5	1	2	5	4	5	2	3		2	1	1		3	46	food manufacturing
printing machine																						printing machine
industrial robot																						industrial robot
other general power machines			2	2	3	1	3	13	2	4	2	2	3	1	4	2	1	2	1	1	49	other general power machines
felling machine																						felling machine
mobile logging machine																						mobile logging machine
skyline yarding machine																						skyline yarding machine
other mobile silviculture machine																						other mobile silviculture machine
crane			1	1			1						1		2		1			1	8	crane
mobile crane												1									1	mobile crane
derrick crane																						derrick crane
elevator, lift					2											1					3	elevator, lift
cargo lifting appliance																						cargo lifting appliance
gondola																						gondola
lumberyard																						lumberyard
equipment, logging																						equipment, logging
cableway																						cableway

	\sqsubseteq	\Box		 	<u> </u>					<u> </u>	<u> </u>	<u> </u>			<u> </u>							
simple skyline																						simple skyline
yarding equipment																						yarding equipment
other powered																						other powered
crane		1							1						2		2	1				crane
truck		1			1	3		1		3	1			1				1		1	13	truck
forklift				1				1					1					1			4	forklift
railway equipment																						railway equipment
conveyor		2	1			1	2		1	2	2	2			1	1	1	1	1		18	conveyor
loader		1																			1	loader
straddle carrier																						straddle carrier
rough terrain hauler																						rough terrain hauler
other powered				1			1						1	1						1	8	other powered
conveying machines							ľ							<u> </u>						I	0	conveying machines
cars, bus,		1		2				1													4	cars, bus,
motorcycle		1																				motorcycle
railway vehicle																						railway vehicle
other vehicles																						other vehicles
boiler											1										1	boiler
pressure vessel																						pressure vessel
other pressure		1																			1	other pressure
vessels		I																			ľ	vessels
chemical facilities																						chemical facilities
gas welding																						gas welding

equipment																						equipment
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
other electrical equipment										1											1	other electrical equipment
human power cranes		1		1			1			1	1							1		1	7	human power cranes
human power hauling equipment								2	1	2			1						1		7	human power hauling equipment
human power machine							1						1								2	human power machine
hand tool		34	19	22	23	20	25	21	20	23	18	24	21	10	21	13	15	12	14	11	366	hand tool
ladder			2	3	1		3	1	1	2	3	3	2		1	1	4	3	2	1	33	ladder
slinging tool														1							1	slinging tool
other tools		1	6	2		2	1	2	2	3	3	1	3	4	4	1	2	1	3	4	45	other tools
other equipment,																						other equipment,

facilities		1	2	1	3		1		2		2	2	3		2	1				4	24	facilities
scaffolding							1								1		1				3	scaffolding
timbering																						timbering
stairs, landing stage		3	1	3	2	1	3	2	4		1		2	1			1	1	3	1	29	stairs, landing stage
opening								1	1			2									4	opening
roof, beam, haze, crossbeam, principal rafter												1									1	roof, beam, haze, crossbeam, principal rafter
working platform, boot board		2		3	2		2	2	1	1		2		2	2	2	2		3	1	27	working platform, boot board
passage			4	3	2	3	1	2	1	5	4	5	3	2	6	2	1	2	3	3	52	passage
building, establishment		1	1	1	2			2	1	2	1			1	1	3				1	17	building, establishment
other temporary buildings, establishments				2	3	3	1	2	1	1		2	3			2		1			21	other temporary buildings, establishments
explosive substance																						explosive substance
inflammable substance																						inflammable substance
inflammable gas																						inflammable gas
harmful substance				1	1					1											3	harmful substance
radiation																						radiation
other hazards,		1		1				1						1	1		1	1			7	other hazards,

metal material				2				2	1							1					6	metal material
																-						
lumber, bamboo													1								1	lumber, bamboo
stone, sand,																						stone, sand,
substance																						substance
other materials		2	2	1	1	2	1		1		2			1	2	1	4	2	1	1	24	other materials
load		1	2		1			1	1	3	1		1	1				1	3	3	19	load
machine/equipment																						machine/equipment
as load							I					I			I						3	as load
natural ground,																						natural ground,
rock																						rock
standing tree																						standing tree
water																						water
abnormal																						abnormal
environment																						environment
high/cold																						high/cold
temperature					1					1		1				1	1	1		1	7	temperature
environment																						environment
other environments		5	10	5	3	4	3	15	8	3	12	6	7	10	9	5	6	8	8	7	134	other environments
other causal agent		3	10	3	3	2	3	3	6	7	3	2	1	1	4	1	2	2	2	7	65	other causal agent
no causal agent			1		1		4	2	2	2	1	3	3	3	1	2	1	1	1	3	31	no causal agent
unclassifiable		1		1					1								1				4	unclassifiable
total		64	66	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	1,116	total

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
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
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	233	20-29
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	263	30-39
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	281	40-49
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	319	50-59
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	231	60 years old or
more						_									12									231	more
total	46	78	64	78	66	55	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	1,373	total

Workers' number of workplace of fatal and non-fatal accidents in livestock process service in 1999-2021

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	total	Workers scale
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	72	9 workers or less
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	349	10-29
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	351	30-49
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	394	50-99
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	184	100-299
300 workers or					2		1					14	1	2									2	23	300 workers or
more																									more
total	46	78	64	78	66	55	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	1,373	total

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	6	8	6	6	4	3	1	4	6	8	3	2	5	2	5	7	6	7	5	3	2	4	4	107	January
February	4	7	4	6	3	4	5	6	5	2	6	6	6	5	7	9		5	1	3		4	6	104	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	121	March
April	3	6	7	10	2	7	6	5	6	6	10	4	3	3	4	4	3	5	4	5	3	6	9	121	April
May	7	5	8	7	7	1	4	4	6	5		7	5	4	9	8	6	6	2	3	3	4	5	116	May
June	1	4	6	5	9	1	4	8	4	4	7	3	6	6	5	1		5	3	2	5	4	4	97	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	124	July
August	6	7	6	4	10	5	6	4	4	8	10	7	6	9	7	5	4	6	6	4	5	6	4	139	August
September	5	5	2	5	3	5	4	4	2	9	7	7	6	8	6	3	6	7	4	3	2	6	5	114	September
October	4	6	6	6	6	4	5	6	4	6	7	4	9	5	8	4	6	5	3	7	5	3	6	125	October
November	2	6	5	8	1	4	9	6	3	4	7	4	4	6	1	6	7	8	3	5	6	3	5	113	November
December		5	5	5	5	8	3	3		7	7	6	8	3	2	5	2	2	4	3	3	3	3	92	December
total	46	78	64	78	66	55	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	1,373	total

Prefecture of fatal and non-fatal accidents in livestock process service in 1999-2021

								Prefecture
Hokkaido 1 3 2 1 1 3 2 4 5	5	1	3	6	6	4	49	Hokkaido
Aomori 3 2 1 1 2 5 2 3 2 1		1		3	5	6	37	Aomori
lwate 1 1 1	1					1	3	lwate

Miyagi				1			1						3									5	Miyagi
Akita		2																				2	Akita
Yamagata	1	1	3	6		4	2	2	2	1	2	3	1			3	3	1	2	1	3	41	Yamagata
Fukushima		1		2		1	1		1			1				2	2		1		4	16	Fukushima
Ibaraki	6	8	6	3	4			5	5	2	7	4	6	2	5	2	2	5	6	4	1	83	Ibaraki
Tochigi	1		1					2				2					1	1	1	3		12	Tochigi
Gunma	2	6	1	1	3	2	1	2	1	5	5	3	6	8	1	5	6	2	1	4	5	70	Gunma
Saitama	2	2	2	10	2	1	3	1	1	1		4	6	1		3		4	3		1	47	Saitama
Chiba	3	5	4	5	8	2	1	2	4	5	1	1	3	2	1	6	1	4		2	2	62	Chiba
Tokyo				2	3	1		1	1	13	1	4	2	5	1		2					36	Tokyo
Kanagawa		3	17	9	8	10	7	12	14	12	15	11	5	8	4	3		1	1			140	Kanagawa
Niigata	2	2			1	2		9	17	9	10	2	5	4	3	6	4	3	5	1	4	89	Niigata
Toyama														1		1						2	Toyama
Ishikawa					1	1			1	1	3					1		2				10	Ishikawa
Fukui												1				1						2	Fukui
Yamanashi						1			1			2	2		1		3	2		2	1	15	Yamanashi
Nagano									1			1	1	1	2	1				1	1	9	Nagano
Gifu	4		1	1			1	2		1			1								1	12	Gifu
Shizuoka		2	1		1	3	1		2	3	4	2	5				1			1		26	Shizuoka
Aichi		3	3	2	2	2	4	1		1	3	2	3	7	3	4		2	2	2	2	48	Aichi
Mie	1		1	2	1	1		1	2					1	2	1			1	1		15	Mie
Shiga	2	1	2	1	1			6	2		1	4	1		1	1		1	2	1	3	30	Shiga
Kyoto	1	2		1										1		2					2	9	Kyoto

Osaka					1	1	1					1		1	1		1					7	Osaka
Hyogo					3				2	2	1	2	2		1	2			1	2		18	Hyogo
Nara			1																			1	Nara
Wakayama								1														1	Wakayama
Tottori																							Tottori
Shimane		1		1	1	2		1		1	3			1			1		2			14	Shimane
Okayama							2		2									2		1		7	Okayama
Hiroshima			1		2	1		2						1		2						9	Hiroshima
Yamaguchi	1					1			1			2										5	Yamaguchi
Tokushima	4	11	11	4	7	7	5	7	1		1	2	3	3		1		1		1	9	78	Tokushima
Kagawa		3	1	2		2					2				1	2		1			2	16	Kagawa
Ehime																							Ehime
Kochi	1	1															1		1			4	Kochi
Fukuoka	4	9	1	1	3	4	2	1	4		2	2	1		2	3	1	2	1	2	3	48	Fukuoka
Saga				1		1							1	1		2	1	4		2		13	Saga
Nagasaki				2	1	1		1		2	1					1	3	1	1			14	Nagasaki
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
Miyazaki		1		2	5	3			1													12	Miyazaki
Kagoshima	1	3					1		5			1	1		1			1				14	Kagoshima
Okinawa	4	4		1	1	1					1	2	4	1	1		2	1	1	1	1	26	Okinawa
total	46	78	64	66	69	59	43	66	79	62	73	62	66	60	44	66	42	48	45	46	56	1,240	total

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm (MHLW, Japan)

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Fatal accidents in livestock process service in Japan in 1999-2021

livestock process service industry Code No.150105

Type of fatal accidents in livestock process service in 1999-2021

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	total	Type of accidents
fall from height														1										1	fall from height
falling to same level																									falling to same
																									level
crash																									crash
struck by flying or																									struck by flying
falling object																									or falling object
collapse																									collapse
crashed by																									crashed by
caught in/between						1																		1	caught in/between
cut																									cut

the foot	<u> </u>	 	 	 	 	 		 		 	 	 	 	 	
Contact to high/low-temperature	injury to the sole of														injury to the sole
Contact to high/low-temperature Contact to high/low-temperature Contact to harmful substance	the foot														of the foot
contact to high/low-temperature contact to harmful substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) reaction to motion/improper motion others unclassifiable	drown			1										1	drown
temperature	contact to high/low														contact to
contact to harmful substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) reaction to motion/improper motion others unclassifiable															high/low-
contact to harmful substance electric shock electric shock explosion burst fire traffic accident (public road) traffic accident (others) electric shock explosion burst fire traffic accident (others) contact to harmful substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) contact to harmful substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) contact to harmful substance electric shock explosion burst fire traffic accident (public road) traffic accident (others) contact to harmful substance electric shock explosion burst fire traffic accident (others) contact to harmful substance electric shock explosion burst fire traffic accident (others) contact to harmful substance electric shock explosion burst traffic accident (others) contact to harmful substance electric shock explosion burst traffic accident (others) contact to harmful substance electric shock explosion burst traffic accident (others) contact to harmful substance electric shock explosion burst traffic accident (others) contact traffi	temperature														temperature
substance	contact to harmful														contact to
Section Sect															harmful
explosion	Substance														substance
burst fire Description De	electric shock														electric shock
fire	explosion														explosion
traffic accident (public road) traffic accident (others) a a a a a a a a a a a a a a a a a a a	burst														burst
road) traffic accident (others) reaction to motion/improper motion others unclassifiable	fire														fire
traffic accident (others) Color C	traffic accident (public						1							1	traffic accident
traffic accident (others) reaction to motion/improper motion others unclassifiable others	road)						1							1	(public road)
reaction to motion/improper motion others unclassifiable	traffic accident (athers)														traffic accident
motion/improper motion others unclassifiable motion/improper motion in proper motion motion/improper motion in proper motion motion/improper motion others unclassifiable	tranic accident (others)														(others)
motion	reaction to														reaction to
others Ot	motion/improper														motion/improper
unclassifiable unclassifiable	motion														motion
	others														others
total 2 1 1 1 1 1 4 total	unclassifiable														unclassifiable
	total			2			1		1					4	total

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	total	Causal (L)
machine																									machine
crane, conveying machine						1					1													2	crane, conveying machine
other equipment														1										1	other equipment
temporary buildings, establishments						1																			temporary buildings, establishments
substance, material																									substance, material
load																									load
environment																									environment
others																									others
total						2					1			1										4	total

Causal agents (middle) of fatal accidents in livestock process service in 1999-2021

Causal (M) agents	1000	2000	2001	2002	2003	2004	2005	2006	2007	2008	2000	2010	2011	2012	2013	2014	2015	2016	2017	2018	2010	2020	2021	total	Causal (M)
Lausai (ivi) ageiits	1999	2000	2001	2002	2003	2004	2003	2000	2007	2008	2009	2010	2011	2012	2013	2014	2013	2010	2017	2010	2019	2020	2021	totai	agents

engine													engine
power transmission mechanism													power transmission mechanism
woodworking machine													woodworking machine
construction machine													construction machine
metal manufacturing machine													metal manufacturing machine
general machine													general machine
mobile silviculture machine													mobile silviculture machine
crane													crane
conveying machine		1										1	conveying machine
vehicle					1							1	vehicle
pressure vessel													pressure vessel
chemical facilities													chemical facilities
welding equipment													welding equipment

]															<u> </u>
kiln, caldron																kiln, caldron
electric equipment																electric equipment
human power machine,																human power
tools									1							tools
other equipments,																other equipments, facilities
temporary buildings, establishments					1										1	temporary buildings, establishments
hazards, harmful substances																hazards, harmful substances
materials																materials
load																load
natural environment																natural environment
other causal agent																other causal agent
no causal agent																no causal agent
unclassifiable																unclassifiable
II .	11	7	1													

total						2					1			1										4	total	
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Causal agents (small) of fatal accidents in livestock process service in 1999-2021

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	total	Causal (S) agents
engine																									engine
power transmission																									power transmission
mechanism																									mechanism
circular sawing																									circular sawing
machine																									machine
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
lathe													lathe
drill press, milling													drill press, milling
machine													machine
grinding machine,													grinding machine,
buffing machine													buffing 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
mixer, grinder														mixer, grinder
roll machine (except printingroll machine)														roll machine (except printingroll machine)
injection molding machine														injection molding machine
food manufacturing machine														food manufacturing machine
printing machine														printing machine
industrial robot														industrial robot
other general power machines														other general power machines
felling machine														felling machine
mobile logging machine														mobile logging
skyline yarding machine														skyline yarding machine
other mobile silviculture machine														other mobile silviculture machine
crane														crane
mobile crane														mobile crane
derrick crane														derrick crane
elevator, lift														elevator, lift
	11		11	11								11		

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
truck														truck
forklift														forklift
railway equipment														railway equipment
conveyor			1										1	conveyor
loader														loader
straddle carrier														straddle carrier
rough terrain hauler														rough terrain hauler
other powered														other powered
conveying machines														conveying machines
cars, bus,						1								cars, bus,
motorcycle						I							1	motorcycle
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													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
other electrical													other electrical
equipment													equipment
human power													human power
cranes													cranes
human power													human power
hauling equipment													hauling equipment
human power													human power
machine													machine

hand tool													hand tool
ladder							1					1	ladder
slinging tool													slinging tool
other tools													other tools
other equipment,													other equipment,
facilities													facilities
scaffolding													scaffolding
timbering													timbering
stairs, landing stage													stairs, landing stage
opening													opening
roof, beam, haze,													roof, beam, haze,
crossbeam,													crossbeam,
principal rafter													principal rafter
working platform,													working platform,
boot board													boot board
passage													passage
building,			1									1	building,
establishment			•										establishment
other temporary													other temporary
buildings,													buildings,
establishments													establishments
explosive substance													explosive substance
inflammable													inflammable
substance													substance

inflammable gas													inflammable gas
harmful substance													harmful substance
radiation													radiation
other hazards,													other hazards,
harmful substances													harmful substances
metal material													metal material
lumber, bamboo													lumber, bamboo
stone, sand,													stone, sand,
substance													substance
other materials													other materials
load													load
machine/equipment													machine/equipment
as load													as load
natural ground,													natural ground,
rock													rock
standing tree													standing tree
water													water
abnormal													abnormal
environment													environment
high/cold													high/cold
temperature													temperature
environment													environment
other environments													other environments
other causal agent													other causal agent

		\Box												
no causal agent														no causal agent
unclassifiable														unclassifiable
total			2			1		1					4	total

Workers age of fatal accidents in livestock process service in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less																									19 years old or less
20-29																									20-29
30-39																									30-39
40-49																									40-49
50-59						1																		1	50-59
60 years old or						1					1			1										3	60 years old or
more						<u> </u>								'										I - I	more
total						2					1			1										4	total

Workers' number of workplace of fatal accidents in livestock process service in 1999-2021

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	total	Workers scale
9 workers or less						1					1													2	9 workers or less
10-29																									10-29
30-49						1																		1	30-49
50-99																									50-99
			\Box							\Box		\Box	\Box	\Box				\Box							

100-299														100-299
300 workers or								1					1	300 workers or
more								I						more
total			2			1		1					4	total

Month of fatal accidents in livestock process service in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January																									January
February																									February
March																									March
April						1																		1	April
May																									May
June											1													1	June
July																									July
August														1										1	August
September																									Septembe
October						1																		1	October
November																									November
December																									December
total						2					1			1										4	total

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido																									Hokkaido
Aomori																									Aomori
lwate																									lwate
Miyagi																									Miyagi
Akita																									Akita
Yamagata																									Yamagata
Fukushima																									Fukushim
Ibaraki																									Ibaraki
Tochigi																									Tochigi
Gunma														1										1	Gunma
Saitama																									Saitama
Chiba																									Chiba
Tokyo																									Tokyo
Kanagawa																									Kanagaw
Niigata																									Niigata
Toyama																									Toyama
Ishikawa																									Ishikawa
Fukui																									Fukui
Yamanashi																									Yamanasl
Nagano																									Nagano
Gifu																									Gifu

Shizuoka															Shizuoka
Aichi															Aichi
Mie															Mie
Shiga															Shiga
Kyoto															Kyoto
Osaka															Osaka
Hyogo			1	1										1	Hyogo
Nara															Nara
Wakayama															Wakayama
Tottori															Tottori
Shimane															Shimane
Okayama															Okayama
Hiroshima															Hiroshima
Yamaguchi							1							1	Yamaguchi
Tokushima															Tokushima
Kagawa			1	1										1	Kagawa
Ehime															Ehime
Kochi															Kochi
Fukuoka															Fukuoka
Saga															Saga
Nagasaki															Nagasaki
Kumamoto															Kumamoto
Oita															Oita

Miyazaki														Miyazaki
Kagoshima														Kagoshima
Okinawa														Okinawa
total			2			1		1					4	total

Data sources: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm (MHLW, Japan)

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