



substance	1	5	3	3	3	3	4	2	4	6	8	12	9	19	8	6	11	12	6	6	7	11	8	10	167
electric shock	1				1				1		1			2			1	1			1	1	1		11
explosion																			1						1
burst	1		1									1					1	1			1		2		8
fire	1		3						1	1		2			1		1						1		11
traffic accident (public road)	13	14	15	14	6	8	16	8	17	9	15	16	14	11	15	8	6	14	5	4	9	8	5	6	256
traffic accident (others)	1		4			2	2		1			1	1	1	1	1	2		1	1	1			1	21
reaction to motion/improper motion	95	99	83	80	88	104	105	101	85	94	103	78	93	110	76	77	80	70	72	92	88	120	102	101	2,196
others	23	32	18	22	20	30	19	28	17	18	36	13	19	15	14	25	28	16	17	33	22	33	34	27	559
unclassifiable	4	1	2	3	2		1	4	1	3	3	6	3	5			1		2	1	3	3	3	3	54
total	1,139	1,153	1,195	1,071	1,044	1,115	1,094	1,101	1,070	1,121	1,034	1,049	1,069	1,129	1,017	992	1,009	1,021	1,022	1,093	1,099	1,239	1,209	1,242	26,327

Causal agents (large) of fatal and non-fatal accidents in livestock in 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
machine	77	72	75	55	96	80	74	82	62	63	80	60	87	76	78	73	79	61	91	88	84	82	90	102	1,867
crane, conveying machine	101	111	101	94	94	85	84	95	105	94	80	104	97	106	114	95	90	93	87	85	88	86	96	101	2,286
other equipment	96	89	103	113	91	121	98	101	116	127	101	91	110	118	96	105	97	96	103	109	99	120	105	122	2,527

temporary buildings, establishments	138	143	149	118	132	128	139	134	171	138	128	138	152	170	136	125	135	141	134	171	165	197	182	180	3,544
substance, material	29	34	24	24	25	21	41	20	24	21	26	38	28	32	23	28	24	27	21	31	24	26	30	28	649
load	46	35	34	33	28	28	28	30	27	19	29	18	27	28	16	25	26	28	17	19	27	32	22	19	641
environment	566	591	635	561	490	553	546	388	418	559	510	510	491	530	495	469	477	513	518	505	528	613	584	629	12,679
others	86	78	74	73	88	99	84	251	147	100	80	90	77	69	59	72	81	62	51	85	84	83	100	61	2,134
total	1,139	1,153	1,195	1,071	1,044	1,115	1,094	1,101	1,070	1,121	1,034	1,049	1,069	1,129	1,017	992	1,009	1,021	1,022	1,093	1,099	1,239	1,209	1,242	26,327

Causal agents (middle) of fatal and non-fatal accidents in livestock in 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
engine	1		1		1	1	1	2						2					1	1		1		1	13
power transmission mechanism	11	11	5	5	12	9	10	11	11	9	11	8	9	8	12	5	11	3	16	12	9	8	13	14	233
woodworking machine	3	7	4	2	8	9	3	6	5	4	2	2	6	6		3	2	5	3	2	3	3	5	2	95
construction machine	17	6	10	8	8	17	10	13	6	7	8	12	15	17	10	13	13	7	13	16	16	13	14	18	287
metal manufacturing machine		1	5	6	2	2	7	4	2	5	3	2	5	1	3	2	3	2	5	7		7	5	9	88

general machine	45	47	50	34	65	42	43	46	38	38	56	36	52	42	53	50	50	43	53	50	56	50	53	58	1,150
mobile silviculture machine																		1							1
crane	5	4	3	6	1	1	1	1	3	4	3	3	3		2	4	2	2	2	2	2	2	3		57
conveying machine	77	88	83	68	77	72	68	81	80	79	64	82	75	94	97	75	81	79	78	76	76	72	80	94	1,896
vehicle	19	19	15	20	16	12	15	13	22	11	13	19	19	12	15	16	7	12	7	7	10	11	16	7	333
pressure vessel	3			1				1					1		1	2			2						11
chemical facilities					1	1																			2
welding equipment	1	1		1	1	1					1	1			2	1				1			1		12
kiln, caldron		1	1	1		1			1		1			1	1				1						9
electric equipment	2	1		1	2	2		2	1	1	2	2		2	1	1		1		1	3	1	1	1	28
human power machine, tools	35	28	50	43	29	37	23	36	41	40	34	27	28	31	31	30	28	30	32	31	26	44	37	38	809
tools	40	51	35	50	43	57	49	39	49	66	46	43	57	55	42	48	56	48	45	58	46	55	53	59	1,190
other equipments, facilities	15	7	17	16	15	22	26	23	24	20	17	18	24	29	18	23	13	17	23	18	24	20	13	24	466
temporary buildings, establishments	138	143	149	118	132	128	139	134	171	138	128	138	152	170	136	125	135	141	134	171	165	197	182	180	3,544
hazards, harmful substances	5	9	3	3	3	2	6	2	4	5	8	11	8	13	10	8	6	12	7	10	5	12	8	11	171
materials	24	25	21	21	22	19	35	18	20	16	18	27	20	19	13	20	18	15	14	21	19	14	22	17	478













equipment					1			1	1		1	2		1	1	1				1			1	1	12
human power cranes			3		1		1		1		1	1		1	1	1			1	1	6	7	6	4	36
human power hauling equipment			26		15		12	18	24	25	17	16	17	18	19	11	17	21	20	18	11	19	13	20	357
human power machine								2	1	1	1		2	1	1		2		2	1	1			1	16
hand tool			21		13		10	16	15	14	15	10	9	11	10	18	9	9	9	11	8	18	18	13	257
ladder			24		26		23	27	25	34	25	25	35	32	28	28	36	34	24	39	27	33	33	30	588
slinging tool											1			1					1				1	1	5
other tools			11		17		26	12	24	32	20	18	22	22	14	20	20	14	20	19	19	22	19	28	399
other equipment, facilities			17		15		26	23	24	20	17	18	24	29	18	23	13	17	23	18	24	20	13	24	406
scaffolding			3		1		3	2	2	1	2	4	1	3	1				1	1	3	2	1		31
timbering																							1		1
stairs, landing stage			7		10		8	10	13	2	7	14	7	20	15	12	7	6	8	13	13	17	14	12	215
opening			6		2		3	4	5	4	2	1	2	2	1	6	3	6	5	4	2	9	4	3	74
roof, beam, haze, crossbeam, principal rafter			4		6		11	6	8	5	10	5	4	7	8	9	8	6	6	11	5	9	7	9	144
working platform, boot board			21		18		23	16	21	13	14	12	22	10	20	21	23	19	16	19	15	20	17	25	365
passage			48		45		43	44	48	55	38	51	52	50	37	40	53	56	49	64	56	79	75	65	1,048

building, establishment			36		33		29	28	45	34	29	31	42	40	27	21	29	28	31	37	42	29	32	31	654
other temporary buildings, establishments			24		17		19	24	29	24	26	20	22	38	27	16	12	20	18	22	29	32	31	35	485
explosive substance																									
inflammable substance			1				1							1	2			1	1	1					8
inflammable gas														1											1
harmful substance			1		1		1	1	3	2	1	3	4	4	4	3	6	5	1	6	3		2	2	53
radiation																									
other hazards, harmful substances			1		2		4	1	1	3	7	8	4	8	3	5		6	5	3	2	12	6	9	90
metal material			14		13		14	13	14	9	12	19	7	9	4	9	7	4	5	9	6	9	12	6	195
lumber, bamboo			5		3		9	2	2	4	1	1	6	2	3	2	3	2	5	2	6	5	4	6	73
stone, sand, substance			1		2			1	1			1		1	1		1	2		1			1		13
other materials			1		4		12	2	3	3	5	6	7	7	5	9	7	7	4	9	7		5	5	108
load			31		26		28	28	26	18	28	17	26	27	15	22	25	27	16	18	27	32	22	16	475
machine/equipment as load			3		2			2	1	1	1	1	1	1	1	3	1	1	1	1				3	24
natural ground, rock			2		8		5	4	4	3	3	4	4	2		5	3	1	3	3	5	4	3	2	68
standing tree			2				3		2	1	4	1	1	1	6	5	3	2		2	2	4	3		42

water					1		1		1		3		1			1	1		1	1	1					12
abnormal environment										2	1			1			3	2	1	1						11
high/cold temperature environment			1				5	4	4	4		5	5	5	7	3	1	3	2	10	3	5	5	6	78	
other environments			630		481		532	380	407	549	499	500	480	521	482	455	466	505	511	488	517	600	573	621	10,197	
other causal agent			41		60		61	221	132	74	47	52	46	48	42	50	55	40	36	54	43	37	45	25	1,209	
no causal agent			27		24		17	26	14	24	30	36	31	18	15	21	26	22	15	30	38	45	55	34	548	
unclassifiable			6		4		6	4	1	2	3	2		3	2	1				1	3	1		2	41	
total	1,139	1,153	1,195	1,071	1,044	1,115	1,094	1,101	1,070	1,121	1,034	1,049	1,069	1,129	1,017	992	1,009	1,021	1,022	1,093	1,099	1,239	1,209	1,242	26,327	

Workers age of fatal and non-fatal accidents in livestock in 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
19 years old or less	55	45	53	40	28	29	23	31	18	18	11	25	8	32	19	18	25	19	22	16	15	28	17	20	615
20-29	309	311	309	292	240	275	265	236	240	264	213	214	208	194	218	176	162	148	171	189	178	206	231	254	5,503
30-39	162	162	192	168	181	205	218	249	226	229	232	205	246	269	210	249	241	244	221	245	246	261	231	247	5,339
40-49	233	216	197	196	198	198	174	171	163	165	180	188	197	187	189	176	209	217	218	236	262	278	273	287	5,008
50-59	229	271	264	235	240	264	260	281	271	315	240	235	229	257	211	211	203	201	194	202	203	226	229	204	5,675
60 years old or more	151	148	180	140	157	144	154	133	152	130	158	182	181	190	170	162	169	192	196	205	195	240	228	230	4,187
total	1,139	1,153	1,195	1,071	1,044	1,115	1,094	1,101	1,070	1,121	1,034	1,049	1,069	1,129	1,017	992	1,009	1,021	1,022	1,093	1,099	1,239	1,209	1,242	26,327



August	92	101	99	97	92	90	98	95	104	87	74	88	96	85	85	90	76	72	82	96	95	102	94	107	2,197
September	99	88	94	67	83	81	71	75	92	97	87	98	92	93	76	77	84	91	75	97	118	113	102	102	2,152
October	96	95	109	93	115	102	99	95	86	105	83	103	94	101	91	88	91	79	98	99	97	112	100	122	2,353
November	95	107	114	90	79	81	95	88	80	82	109	76	90	85	74	78	83	80	90	93	85	91	103	96	2,144
December	82	82	91	85	82	62	96	83	67	82	75	75	95	91	94	84	98	89	89	85	85	93	96	75	2,036
total	1,139	1,153	1,195	1,071	1,044	1,115	1,094	1,101	1,070	1,121	1,034	1,049	1,069	1,129	1,017	992	1,009	1,021	1,022	1,093	1,099	1,239	1,209	1,242	26,327

Prefecture of fatal and non-fatal accidents in livestock in 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
Hokkaido	316	274	333		253		223	259	253	252	240	261	243	241	223	230	222	252	238	267	260	308	276	316	5,740
Aomori	33	32	35		30		30	24	16	23	21	18	22	19	24	19	13	15	18	16	21	27	20	24	500
Iwate	45	55	43		30		23	37	44	28	34	22	48	54	42	40	42	30	33	51	65	65	61	54	946
Miyagi	11	14	11		11		10	10	4	9	6	10	7	13	15	13	13	10	7	13	16	11	8	18	240
Akita	9	11	6		11		5	10	7	5	7	5	6	3	13	10	4	8	7	4	11	7	11	6	166
Yamagata	12	7	7		5		13	10	8	2	9	9	7	12	12	3	10	9	4	8	6	8	14	7	182
Fukushima	7	43	34		30		29	32	33	36	20	23	23	13	10	18	19	14	10	12	23	17	19	21	486
Ibaraki	170	168	181		134		162	153	130	149	117	129	115	141	124	114	150	115	116	130	134	141	137	99	3,009
Tochigi	27	16	21		22		18	17	18	23	12	19	24	22	30	24	21	25	36	24	33	28	36	29	525
Gunma	15	17	23		10		25	23	13	23	21	19	26	15	21	16	13	21	22	30	25	35	32	38	483
Saitama	13	14	13		6		8	6	10	5	14	17	10	9	13	19	14	14	12	8	6	11	9	9	240
Chiba	14	27	32		38		51	43	38	49	46	38	53	54	30	24	22	32	16	27	20	25	19	18	716
Tokyo	1	1			3				2			1	2		7	3		3	1				1	1	26



Tokushima	5	5	5		5		1	4	2	5	8	1	6	2	4	2		4	6	7	9	6	5	3	95
Kagawa	5	7	5		13		8	2	5	5	8	7	9	11	8	6	7	8	10	11	3	12	7	9	166
Ehime	5	9	11		8		14	7	4	2	6	11	7	9	6	3	5	5	9	8	5	8	7	9	158
Kochi	2	2			1		5	1	2	2	1	3	6	1		2	4	7		2	3	6	2	4	56
Fukuoka	14	10	12		17		12	14	17	8	16	14	9	14	14	15	9	20	8	13	10	9	24	18	297
Saga	16	17	18		9		16	26	9	16	15	12	11	17	16	12	19	14	16	11	6	19	12	13	320
Nagasaki	7	7	4		9		6	11	6	11	3	9	9	6	6	7	6	8	10	7	9	10	11	6	168
Kumamoto	23	23	18		17		24	25	28	29	24	20	20	24	17	23	24	21	12	31	25	32	31	40	531
Oita	12	16	14		15		22	16	9	13	13	16	15	17	17	13	10	7	20	18	10	13	19	12	317
Miyazaki	40	24	39		40		50	53	52	47	59	44	56	39	35	36	31	52	51	51	40	43	32	52	966
Kagoshima	63	52	60		61		69	70	60	72	61	68	60	66	65	60	71	63	80	66	65	72	75	83	1,462
Okinawa	3	3	5		4		10	5	16	9	5	5	11	5	17	6	10	6	8	9	7	11	4	9	168
total	1,139	1,153	1,195	1,071	1,044	1,115	1,094	1,101	1,070	1,121	1,034	1,049	1,069	1,129	1,017	992	1,009	1,021	1,022	1,093	1,099	1,239	1,209	1,242	26,327

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

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.html> (MHLW, Japan)

Return to [https://www.jisha.or.jp/english/statistics/2022e\\_industry.html](https://www.jisha.or.jp/english/statistics/2022e_industry.html)

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Fatal accidents in livestock in Japan in 1999-2022







power transmission mechanism									1				1		1					1			2		6
woodworking machine																									
construction machine	1				1	3			1	2		1		2			1	1					1		14
metal manufacturing machine																									
general machine				1	1	4	1			1		2	2	1	1		1		2					2	19
mobile silviculture machine																									
crane	1																								1
conveying machine	2	2	5	1	2	1	2	1	2	1	4	3		1		2	2	4	3		2	5	2	2	49
vehicle					1				1	1		1	2											1	7
pressure vessel																									
chemical facilities																									
welding equipment												1													1
kiln, caldron																									
electric equipment											1												1		2
human power machine, tools																						1			1
tools						1										1			2	1				1	6
other equipments, facilities										2															2
temporary buildings, establishments	1	1	2		2	1		2	2		1	1	1	1	1		1	2	3	1	1	1	1	1	26
hazards, harmful substances	1														1		1								3
materials					1																				1
load											1						1					1	1		4



foundation work machine																								
hardening machine																								
demolition machine																								
vehicle for high lift work																								
other construction machines																								
lathe																								
drill press, milling machine																								
grinding machine, buffing machine																								
power press																								
forging pressure hammer																								
shearing machine																								
other metal manufacturing machines																								
centrifugal machine																								
mixer, grinder				1	1								1	1	1								1	6
roll machine (except printingroll machine)																								
injection molding machine																								
food manufacturing machine																								
printing machine																								
industrial robot																								
other general power machines				1	3	1			1		2	1	1				2						1	13

falling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane																									
derrick crane																									
elevator, lift	1																						1		
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck	1	2	3	1			1			1	1	2		1		1	1	2			1	2	1	1	22
forklift					2						2	1				1	1	1	2			2	1	1	14
railway equipment																									
conveyor			1				1		2		1							1		1	1			8	
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines	1		1			1		1									1							5	







other materials																									
load										1							1				1	1		4	
machine/equipment as load																									
natural ground, rock										1			1								1		1	4	
standing tree											1												1	3	
water													1										1	2	
abnormal environment											1				1									3	
high/cold temperature environment										1			1				1	1						5	
other environments	3	3	1	4	1		1	3	1	1	1	2	1			1	3	1	1	2		1	1	3	35
other causal agent								1									1						1		6
no causal agent																									
unclassifiable																									
total	9	6	8	6	9	10	6	6	8	12	10	12	9	6	7	7	7	9	12	5	8	8	13	7	200

Workers age of fatal accidents in livestock in 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	
19 years old or less	1										1											1			3	
20-29	2		1	1		1	1			2	1	2			1		2	1	2	1		1			19	
30-39	1		1		2		3			1	1				2	2	2	1	1		2	1	1	1	24	
40-49	1	3	2	3	1			1	1	1		1	4	1	1	1	1	3	1			1	2		29	
50-59	2	1	1	1	2	5	1	3	5	2	2	2	2	1		2	1	1	1	1	1	1	1	4	2	44

60 years old or more	2	2	3	1	4	4	1	2	1	6	6	5	3	4	3	2	1	3	7	3	5	3	6	4	81
total	9	6	8	6	9	10	6	6	8	12	10	12	9	6	7	7	7	9	12	5	8	8	13	7	200

Workers' number of workplace of fatal accidents in livestock in 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
9 workers or less	4	4	5	1	5	3	3	2	4	6	6	4	5	2	3	4	3	5	9	1	2	4	6	5	96
10-29	3	2	2	4	2	5	2	3	2	5	4	4	2	3	1	2	3	2	3	2	5	2	5	1	69
30-49			1	1	2	2	1	1		1		3	2	1	3		1	2		1	1	2	2	1	28
50-99	1								2			1				1				1					6
100-299	1																								1
300 workers or more																									
total	9	6	8	6	9	10	6	6	8	12	10	12	9	6	7	7	7	9	12	5	8	8	13	7	200

Month of fatal accidents in livestock in 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
January				1	2	1		1	2	1	1	2			1		1		2	1	1				17
February	2	1	1	1	1					2	1		1		1				1		1		1		14
March		1		3		1	2	1	1			1	2		1	1		1	2		1	1	2		21
April	1	1	3		1	2					1	1	1					1	1		2				15
May		1				1			1		1	2		2	1	1	2	1	1			1	3		18
June	1						1		1	1	2	1		1				1			1	1	1	1	13

July	2				1	1	1			2	2	2			1	1	2	1	1			1		1	19
August	1		2	1				2		3	1		1		1	2	1	1	1	1	1			1	20
September		2				2	1		1	1					1		2	1	1				1	1	14
October	1								1	1	1	1	1	3		1					1			2	13
November	1		2		4	2		1		1			2				1	1				1	1	1	18
December							1	1	1			2	1		1				2	2		3	4		18
total	9	6	8	6	9	10	6	6	8	12	10	12	9	6	7	7	7	9	12	5	8	8	13	7	200

Prefecture of fatal accidents in livestock in 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
Hokkaido	5	1		1	2	2	2		3	2	2	1		2		1		3	3	1	3	2	1	2	39
Aomori								1	1						2		1		1			1			7
Iwate				1	1					1		1	3						1						8
Miyagi																1	1							1	3
Akita			1					1				1													3
Yamagata	1		1								1														3
Fukushima								1	1														1		3
Ibaraki		1		4			1	1		1	1	1		1		2	1		2			1	1		18
Tochigi		1								1															2
Gunma						2						2	1		1							1			7
Saitama											1										1	1			3
Chiba			1										1		1	1	1				1		1		7



Yamaguchi											1													1	
Tokushima			1														1		1					3	
Kagawa							1								1									2	
Ehime												1												1	
Kochi																						1		1	
Fukuoka														1			2							3	
Saga			1								1													2	
Nagasaki																						1		1	
Kumamoto		1			1			1		2	1	1				1				1		1		10	
Oita			1		1			1	1	1	1													6	
Miyazaki			1											1			1				1	1		5	
Kagoshima	1				1	1						1					1	1				1	1	8	
Okinawa															1									1	
total	9	6	8	6	9	10	6	6	8	12	10	12	9	6	7	7	7	9	12	5	8	8	13	7	200

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

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