

Fatal and non-fatal accidents in meat/dairy products in Japan in 1999-2022

meat/dairy products industry Code No.010101

Type of accidents in meat/dairy products in 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
fall from height	67	65	61	67	71	83	61	82	66	80	66	76	76	64	59	75	57	68	69	75	69	78	85	67	1,687
falling to same level	199	189	213	201	208	215	198	230	215	252	232	245	259	252	244	240	252	252	260	266	279	299	280	279	5,759
crash	36	32	30	28	54	29	33	46	39	51	49	44	29	22	45	39	41	50	37	41	50	55	46	44	970
struck by flying or falling object	54	57	55	52	51	49	51	48	54	45	34	52	55	43	53	51	43	45	46	41	46	43	42	65	1,175
collapse	10	13	15	13	25	10	14	15	12	10	15	11	12	13	10	13	12	19	17	13	13	15	14	19	333
crashed by	33	34	34	35	36	30	32	23	34	27	40	28	30	32	29	34	32	26	20	38	33	28	42	36	766
caught in/between	245	231	218	224	236	225	208	195	197	182	187	199	185	158	164	164	183	162	163	179	177	150	153	163	4,548
cut	299	289	267	219	258	217	261	234	217	243	241	219	209	214	193	177	197	150	181	177	186	158	148	170	5,124
injury to the sole of the foot	1	1	1	1		1		1	3			1		1			1		1		2				15
drown	1												5												6
contact to high/low-temperature	38	36	26	28	30	32	34	43	31	30	30	31	25	28	36	34	38	36	38	47	32	33	40	27	803

contact to harmful substance	7	5	7	9	13	4	7	8	9	12	3	12	6	9	12	9	10	10	7	7	10	9	10	16	211
electric shock	2	1	2	1				1					1	2	1			1							12
explosion					1																				1
burst	2			1	1							1						1	1						7
fire		2	2					1					1	1			2								9
traffic accident (public road)	13	23	15	8	10	17	21	7	10	12	11	17	17	6	14	11	11	3	10	10	11	3	6	9	275
traffic accident (others)	2	1									1		1												5
reaction to motion/improper motion	65	61	44	58	77	65	67	69	77	68	82	77	76	96	80	88	91	78	90	94	94	93	117	124	1,931
others	13	9	5	5	8	5	5	6	8	5	7	5	9	3	4	19	7	5	7	7	3	32	148	9	334
unclassifiable	3	1	1	2	3	1	2	1	1	2	2		2	1				1	1	1	2		1	2	30
total	1,090	1,050	996	952	1,082	983	994	1,010	973	1,019	1,000	1,018	998	945	944	954	977	907	948	996	1,007	996	1,132	1,030	24,001

Causal agents (large) of fatal and non-fatal accidents in meat/dairy products 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	298	312	273	269	284	251	274	226	221	240	224	206	224	201	189	171	210	179	194	211	209	184	157	162	5,369
crane, conveying machine	100	103	97	83	117	95	88	84	88	75	91	92	83	72	77	76	63	50	66	71	72	74	71	74	1,962

manufacturing machine	18	4	5	5	2	1	4	2	2	1	2	1		1		2				4	1	3			58
general machine	269	294	262	254	272	239	257	219	210	227	212	198	217	193	181	163	204	174	190	193	201	173	152	159	5,113
mobile silviculture machine																					1				1
crane	5	11	3	2	7	2	4	6	1	2	4	4	6	3	2	3	4	1	2	4	3	1	2	4	86
conveying machine	85	75	76	77	100	78	66	73	74	60	75	72	59	66	63	70	49	43	56	54	60	68	61	61	1,621
vehicle	10	17	18	4	10	15	18	5	13	13	12	16	18	3	12	3	10	6	8	13	9	5	8	9	255
pressure vessel	3	2	3	2	2	2	2	2	2	1	3			1	2	1	2	1	1	1				2	35
chemical facilities			2	1		1				1		1					1							2	9
welding equipment												1													1
kiln, caldron	2	1	1	2	2	2	1	5	3	1	1	3	1	3	4	2	1	1	3	3	3	2	2	4	53
electric equipment	2	2	2			8	2	3	1	1	1		1	2		2	4	1	2	2	2		2	4	44
human power machine, tools	191	174	173	147	174	149	169	164	165	165	175	169	154	157	150	146	158	121	128	144	149	153	133	182	3,790
tools	63	55	53	51	66	65	58	73	70	75	71	77	69	64	68	77	58	93	88	80	80	84	97	77	1,712
other equipments, facilities	28	25	18	26	24	30	34	26	33	40	23	39	26	33	28	37	31	38	31	42	29	33	31	31	736
temporary buildings, establishments	203	193	208	213	226	223	209	246	231	276	244	250	247	236	242	238	272	247	254	261	272	274	286	266	5,817

hazards, harmful substances	9	13	11	12	17	13	9	17	10	15	6	16	13	12	18	14	16	19	8	9	10	10	13	21	311
materials	35	33	24	23	25	18	25	30	26	18	29	30	27	23	31	23	28	24	23	18	26	23	26	30	618
load	65	66	63	69	86	56	57	65	57	52	58	67	78	70	63	73	57	62	65	66	70	50	69	71	1,555
natural environment	31	25	26	23	14	29	21	21	21	14	26	21	34	26	31	25	22	23	21	33	18	25	30	28	588
other causal agent	25	19	24	11	17	19	19	18	20	16	16	14	12	10	10	29	17	16	21	18	18	44	159	15	587
no causal agent	32	25	15	19	26	18	23	29	23	28	30	31	26	32	30	39	36	29	42	35	48	40	55	59	770
unclassifiable	3	2	3	1	2	4	3	1	2	1	2	1	3	3	1	1	1	3	1	2	1		1	2	44
total	1,090	1,050	996	952	1,082	983	994	1,010	973	1,019	1,000	1,018	998	945	944	954	977	907	948	996	1,007	996	1,132	1,030	24,001

Causal agents (small) of fatal and non-fatal accidents in meat/dairy products in 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
engine							1				1					1			2	2	1	1			9
power transmission mechanism			3		7		10	3	8	8	5	6	6	7	6	5	5	5	2	11	2	6	5	2	112
circular sawing machine			1		3		2	1	1				1				1			1				1	12
band sawing machine			2							2	1				1										6
wood planer																						1			1

lathe																									
drill press, milling machine			1				1																		2
grinding machine, buffing machine							1	1			1					1			2		1				7
power press									1																1
forging pressure hammer																					1				1
shearing machine																									
other metal manufacturing machines			4		2		2	1	1	1	1	1		1		1				2		2			19
centrifugal machine								1															1		2
mixer, grinder			7		2		4	4	1	2	3	3	2	2	4	7	5		5	4	2	6	1	2	66
roll machine (except printingroll machine)							2			2	2	5	5		2	1	5	1	3	1	5			2	36
injection molding machine					1						1														2
food manufacturing machine			211		202		192	162	163	182	163	145	156	151	132	124	153	131	137	140	136	120	109	125	3,034
printing machine							1		1				1												3
industrial robot					2										1	1			1			1			6

other general power machines			44		65		58	52	45	41	43	45	53	40	42	30	41	42	44	48	58	46	41	30	908
felling machine																					1				1
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane					1		1			1	1	1		2					2	1	2				12
mobile crane					1		1	2																	4
derrick crane																									
elevator, lift			1		2		1	2	1	1	2	2	4		1	3	4	1		2	1	1	2	3	34
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane			2		3		1	2			1	1	2	1	1					1				1	16

other welding equipment											1													1	
kiln, caldron			1		2		1	4	3	1		3		2	2	2	1	1	3	2	2	1	2	3	36
industrial dryer																							1	1	
other kiln, caldron								1			1		1	1	2				1	1	1			9	
transmission			1					1	1	1				1			2	1	1	2	2		2	3	18
electric power facilities															1	1									2
other electrical equipment			1				2	2			1		1	1		1	1		1				1	12	
human power cranes								2			1					1			1	4	10	4	30	53	
human power hauling equipment			46		41		36	38	37	51	52	43	44	43	49	47	51	46	43	52	49	60	49	53	930
human power machine								1	3	2	1			1	1			1	1	2		1		14	
hand tool			127		133		133	123	125	112	121	126	110	113	100	99	106	75	84	90	94	83	79	99	2,132
ladder			20		23		19	35	15	26	25	33	25	23	22	29	24	33	27	21	20	19	30	23	492
slinging tool								1	1					1	1		1	1							6
other tools			33		43		39	37	54	49	46	44	44	40	45	48	33	59	61	59	60	65	67	54	980
other equipment, facilities			18		24		34	26	33	40	23	39	26	33	28	37	31	38	31	42	29	33	31	31	627
scaffolding			1		1		2			1	1			1			1	1			1				10

metal material			2		9		6	5	10	7	9	9	8	8	5	5	9	5	5	7	7	5	7	9	137
lumber, bamboo			4		2		4		3	1		2	2	2	3	1	1		2	1	5	1	1	1	36
stone, sand, substance			1					1				1		1							1				5
other materials			17		14		15	24	13	10	20	18	17	12	23	17	18	19	16	10	13	17	18	20	331
load			60		82		57	63	56	46	55	66	77	69	61	70	52	60	63	65	65	50	66	69	1,252
machine/equipment as load			3		4			2	1	6	3	1	1	1	2	3	5	2	2	1	5		3	2	47
natural ground, rock					2				1		1									2					6
standing tree													2			1									3
water			1		2		1	3	4			1	8		2					2	1	1	1	1	28
abnormal environment															2										2
high/cold temperature environment			3		4		5	5	4	4	5	8	4	4	6	7	6	4	9	12	5	11	9	9	124
other environments			22		6		15	13	12	10	20	12	20	22	21	17	16	19	12	17	12	13	20	18	317
other causal agent			24		17		19	18	20	16	16	14	12	10	10	29	17	16	21	18	18	44	159	15	513
no causal agent			15		26		23	29	23	28	30	31	26	32	30	39	36	29	42	35	48	40	55	59	676
unclassifiable			3		2		3	1	2	1	2	1	3	3	1	1	1	3	1	2	1		1	2	34
total	1,090	1,050	996	952	1,082	983	994	1,010	973	1,019	1,000	1,018	998	945	944	954	977	907	948	996	1,007	996	1,132	1,030	24,001

Hokkaido	65	82	69		71		73	82	72	80	71	68	58	60	83	62	67	68	73	78	64	59	78	77	1,560
Aomori	15	21	20		23		18	14	24	21	17	17	20	20	21	22	17	20	27	24	15	17	18	18	429
Iwate	46	49	48		41		33	46	40	31	36	41	38	23	24	25	33	29	29	34	25	25	27	34	757
Miyagi	33	17	18		14		23	28	19	31	32	21	20	19	21	14	21	9	7	16	25	14	18	23	443
Akita	4	2	2		6		5	6	4	2	4	4	3	7	6	7	4	3	8	5	4	9	3	10	108
Yamagata	11	15	16		18		7	21	17	10	16	14	15	23	13	12	13	16	13	16	15	15	17	6	319
Fukushima	14	12	18		11		11	11	10	11	10	12	7	13	7	10	3	8	13	11	9	10	47	18	276
Ibaraki	37	36	29		47		63	52	43	49	46	53	57	46	32	44	51	45	48	43	58	51	45	48	1,023
Tochigi	17	19	13		14		11	9	9	8	10	15	7	16	11	15	15	14	16	11	13	7	13	12	275
Gunma	53	41	27		36		26	29	38	37	39	24	25	28	25	32	28	38	35	27	26	33	21	35	703
Saitama	38	28	46		63		42	41	37	57	43	50	43	53	51	63	54	52	50	46	53	64	84	56	1,114
Chiba	42	41	24		39		36	37	55	28	27	36	47	37	35	35	44	28	40	57	40	32	53	31	844
Tokyo	18	22	15		19		19	27	10	15	18	19	19	16	19	11	22	9	15	22	10	13	19	21	378
Kanagawa	33	22	16		29		34	36	29	37	36	41	38	36	33	42	33	30	23	28	41	42	53	48	760
Niigata	23	17	24		33		24	24	21	31	35	22	23	19	23	26	23	19	29	31	21	38	22	30	558
Toyama	9	4	7		9		5	10	11	7	2	4	8	9	6	8	3	8	5	2	2	1	3	6	129
Ishikawa	5	10	12		7		8	7	6	11	6	9	8	7	3	7	3	5	9	2	8	4	8	4	149
Fukui	1	3	3		7		2	4	2	4	4	2	4	3	1	4	2	4	3	4	9	3	5	2	76
Yamanashi	3	6	2		4		1	5	5	2	7	5	4	6	8	6	6	7	9	5	11	5	4	4	115
Nagano	12	16	9		10		12	23	9	10	21	11	9	10	9	10	15	21	6	14	16	18	18	17	296
Gifu	29	19	23		12		14	9	10	12	11	13	12	8	6	15	16	9	12	10	18	22	19	16	315
Shizuoka	26	28	23		32		29	25	17	27	27	24	23	21	34	26	26	32	34	31	28	19	14	17	563

stairs, landing stage																							
opening																							
roof, beam, haze, crossbeam, principal rafter																							
working platform, boot board																							
passage																							
building, establishment							1					1					1						3
other temporary buildings, establishments																							
explosive substance																							
inflammable substance		1																					1
inflammable gas																							
harmful substance																							
radiation																							
other hazards, harmful substances																							
metal material																							
lumber, bamboo																							
stone, sand, substance																							
other materials																							
load													1			1							2

machine/equipment as load																								
natural ground, rock																			1				1	
standing tree																								
water												8											8	
abnormal environment																								
high/cold temperature environment							1																1	
other environments								2			1												3	
other causal agent																								
no causal agent							1													2			3	
unclassifiable																								
total	1	4	1	3	2	3	5	7	1	4	5	1	10	4	1	3		3	2	1	4	1	1	67

Workers age of fatal accidents in meat/dairy products 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																	2
20-29		1		1		1	3		1		1	1		1							1				11
30-39								3		1			1						1						6
40-49		1					1	1			1		4	1		1						2			12
50-59			1		2	1		1		1	3		3	2		1		2	1	1		1			20

June													1	1										2
July		1			1						2		1						1					6
August								2		2			1		1			1						7
September	1	1		1				1					1	1						1	2			9
October			1	1																				2
November				1			1			1			1										1	5
December								2							1		1						4	
total	1	4	1	3	2	3	5	7	1	4	5	1	10	4	1	3		3	2	1	4	1	1	67

Prefecture of fatal accidents in meat/dairy products 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		1					2	1						2											6
Aomori															1										1
Iwate								1					3												4
Miyagi										2			5												7
Akita																						1			1
Yamagata									1																1
Fukushima															1		1				1				3
Ibaraki				1			1																		2
Tochigi											1														1
Gunma								1			1								1						3

Okayama																							
Hiroshima																							
Yamaguchi						1																	1
Tokushima																		1					1
Kagawa																							
Ehime			1																				1
Kochi																							
Fukuoka																							
Saga				1																			1
Nagasaki				1																			1
Kumamoto							1		1									1					3
Oita														1									1
Miyazaki			1			1																	2
Kagoshima		1																					1
Okinawa																							
total	1	4	1	3	2	3	5	7	1	4	5	1	10	4	1	3		3	2	1	4	1	67

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

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