

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	195	harmful substance
electric shock	2	1	2	1				1					1	2	1			1						12	electric shock
explosion					1																			1	explosion
burst	2			1	1							1						1	1					7	burst
fire		2	2					1				1	1				2							9	fire
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	266	traffic accident (public road)
traffic accident (others)	2	1									1		1											5	traffic accident (others)
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	1,807	reaction to motion/improper motion
others	13	9	5	5	8	5	5	6	8	5	7	5	9	3	4	19	7	5	7	7	3	32	148	325	others
unclassifiable	3	1	1	2	3	1	2	1	1	2	2		2	1				1	1	1	2		1	28	unclassifiable
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	22,971	total

Causal agents (large) of fatal and non-fatal accidents in meat/dairy products 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	total	Causal (L) agents
machine	298	312	273	269	284	251	274	226	221	240	224	206	224	201	189	171	210	179	194	211	209	184	157	5,207	machine
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	1,888	crane, conveying machine

																									machine
other equipment	289	259	252	229	268	257	266	273	274	284	274	290	251	260	252	265	255	255	253	272	263	272	265	6,078	other equipment
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	5,551	temporary buildings, establishments
substance, material	44	46	35	35	42	31	34	47	36	33	35	46	40	35	49	37	44	43	31	27	36	33	39	878	substance, material
load	65	66	63	69	86	56	57	65	57	52	58	67	78	70	63	73	57	62	65	66	70	50	69	1,484	load
environment	31	25	26	23	14	29	21	21	21	14	26	21	34	26	31	25	22	23	21	33	18	25	30	560	environment
others	60	46	42	31	45	41	45	48	45	45	48	46	41	45	41	69	54	48	64	55	67	84	215	1,325	others
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	22,971	total

Causal agents (middle) of fatal and non-fatal accidents in meat/dairy products 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		1				1	1				1					1			2	2	1	1		11	engine
power transmission mechanism	9	10	3	7	7	6	10	3	8	8	5	6	6	7	6	5	5	5	2	11	2	6	5	142	power transmission mechanism
woodworking machine	1	2	3	1	3	3	2	1	1	3	1		1		2		1			1	1			27	woodworking machine
construction machine	1	1		2		1		1		1	3	1										2	1	14	construction machine

metal manufacturing machine	18	4	5	5	2	1	4	2	2	1	2	1		1		2					4	1	3		58	metal manufacturing machine
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	4,954	general machine	
mobile silviculture machine																					1				1	mobile silviculture machine
crane	5	11	3	2	7	2	4	6	1	2	4	4	6	3	2	3	4	1	2	4	3	1	2	82	crane	
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	1,560	conveying machine	
vehicle	10	17	18	4	10	15	18	5	13	13	12	16	18	3	12	3	10	6	8	13	9	5	8	246	vehicle	
pressure vessel	3	2	3	2	2	2	2	2	2	1	3			1	2	1	2	1	1	1					33	pressure vessel
chemical facilities			2	1		1				1		1					1								7	chemical facilities
welding equipment												1													1	welding equipment
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	49	kiln, caldron	
electric equipment	2	2	2			8	2	3	1	1	1		1	2		2	4	1	2	2	2		2	40	electric equipment	
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	3,608	human power machine, tools	
tools	63	55	53	51	66	65	58	73	70	75	71	77	69	64	68	77	58	93	88	80	80	84	97	1,635	tools	
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	705	other equipments, facilities	

																										facilities
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	5,551	temporary buildings, establishments	
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	290	hazards, harmful substances	
materials	35	33	24	23	25	18	25	30	26	18	29	30	27	23	31	23	28	24	23	18	26	23	26	588	materials	
load	65	66	63	69	86	56	57	65	57	52	58	67	78	70	63	73	57	62	65	66	70	50	69	1,484	load	
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	560	natural environment	
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	572	other causal agent	
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	711	no causal agent	
unclassifiable	3	2	3	1	2	4	3	1	2	1	2	1	3	3	1	1	1	3	1	2	1		1	42	unclassifiable	
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	22,971	total	

Causal agents (small) of fatal and non-fatal accidents in meat/dairy products 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							1				1					1			2	2	1	1		9	engine	
power transmission mechanism			3		7		10	3	8	8	5	6	6	7	6	5	5	5	2	11	2	6	5	110	power transmission mechanism	
circular sawing																										circular sawing

machine			1		3		2	1	1					1									11	machine
band sawing machine			2							2	1				1								6	band sawing machine
wood planer machine																			1				1	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															1								1	other woodworking machines
leveling, transporting or loading machine								1			3	1									2	1	8	leveling, transporting or loading machine
excavating machine																								excavating machine
foundation work machine																								foundation work machine
hardening machine																								hardening machine
demolition machine																								demolition machine
vehicle for high lift work																								vehicle for high lift work

other construction machines									1														1	other construction machines	
lathe																								lathe	
drill press, milling machine			1				1																2	drill press, milling machine	
grinding machine, buffing machine							1	1			1								2		1		7	grinding machine, buffing machine	
power press									1														1	power press	
forging pressure hammer																				1			1	forging pressure hammer	
shearing machine																								shearing machine	
other metal manufacturing machines			4		2		2	1	1	1	1	1								2		2		19	other metal manufacturing machines
centrifugal machine								1															1	2	centrifugal machine
mixer, grinder			7		2		4	4	1	2	3	3	2	2	4	7	5		5	4	2	6	1	64	mixer, grinder
roll machine (except printingroll machine)							2			2	2	5	5		2	1	5	1	3	1	5			34	roll machine (except printingroll machine)
injection molding machine					1						1													2	injection molding machine
food manufacturing machine			211		202		192	162	163	182	163	145	156	151	132	124	153	131	137	140	136	120	109	2,909	food manufacturing machine
printing machine							1		1				1											3	printing machine
industrial robot					2										1	1				1			1	6	industrial robot

other general power machines			44		65		58	52	45	41	43	45	53	40	42	30	41	42	44	48	58	46	41	878	other general power machines
felling machine																					1			1	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	1		2					2	1	2			12	crane
mobile crane					1		1	2																4	mobile crane
derrick crane																									derrick crane
elevator, lift			1		2		1	2	1	1	2	2	4		1	3	4	1		2	1	1	2	31	elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane			2		3		1	2			1	1	2	1	1					1				15	other powered crane
truck			22		19		20	20	21	10	21	20	15	20	15	27	16	14	16	21	20	24	19	360	truck

forklift			27		35		10	20	19	17	23	12	14	15	19	20	17	13	14	16	12	14	15	332	forklift	
railway equipment			1																			1			2	railway equipment
conveyor			25		40		36	29	31	31	27	32	24	25	26	23	16	15	23	15	26	26	25	495	conveyor	
loader												1							1			1			3	loader
straddle carrier																										straddle carrier
rough terrain hauler																										rough terrain hauler
other powered conveying machines			1		6			4	3	2	4	8	5	6	3			1	2	2	1	3	2	53	other powered conveying machines	
cars, bus, motorcycle			18		9		17	5	13	13	12	16	18	3	12	3	10	5	8	13	9	4	8	196	cars, bus, motorcycle	
railway vehicle																										railway vehicle
other vehicles					1		1											1				1			4	other vehicles
boiler					1						1							1							3	boiler
pressure vessel			3		1		1	1	2		2			1	2	1	2		1	1					18	pressure vessel
other pressure vessels							1	1		1															3	other pressure vessels
chemical facilities			2							1		1					1								5	chemical facilities
gas welding equipment																										gas welding equipment
arc welding equipment																										arc welding equipment
other welding equipment												1													1	other welding equipment
kiln, caldron			1		2		1	4	3	1		3		2	2	2	1	1	3	2	2	1	2	33	kiln, caldron	

as load			3		4			2	1	6	3	1	1	1	2	3	5	2	2	1	5		3	45	as load
natural ground, rock					2				1		1									2				6	natural ground, rock
standing tree												2			1									3	standing tree
water			1		2		1	3	4			1	8		2					2	1	1	1	27	water
abnormal environment															2									2	abnormal environment
high/cold temperature environment			3		4		5	5	4	4	5	8	4	4	6	7	6	4	9	12	5	11	9	115	high/cold temperature environment
other environments			22		6		15	13	12	10	20	12	20	22	21	17	16	19	12	17	12	13	20	299	other environments
other causal agent			24		17		19	18	20	16	16	14	12	10	10	29	17	16	21	18	18	44	159	498	other causal agent
no causal agent			15		26		23	29	23	28	30	31	26	32	30	39	36	29	42	35	48	40	55	617	no causal agent
unclassifiable			3		2		3	1	2	1	2	1	3	3	1	1	1	3	1	2	1		1	32	unclassifiable
total			996		1,082		994	1,010	973	1,019	1,000	1,018	998	945	944	954	977	907	948	996	1,007	996	1,132	18,896	total

Workers age of fatal and non-fatal accidents in meat/dairy products 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	28	29	24	31	32	25	36	24	16	19	25	24	21	13	25	16	13	14	12	18	22	21	14	502	19 years old or less
20-29	183	154	184	167	171	151	153	145	144	148	144	159	150	128	134	112	130	111	131	143	143	144	201	3,430	20-29
30-39	147	146	138	142	176	153	148	163	168	152	172	171	162	158	175	152	153	134	136	141	144	139	153	3,523	30-39
40-49	251	257	224	191	209	201	213	207	180	177	183	192	172	169	188	199	197	175	187	202	197	185	218	4,574	40-49

May	90	98	96	80	106	74	84	82	77	92	68	72	98	76	72	76	84	67	76	88	87	88	86	1,917	May
June	93	93	75	76	77	98	80	75	88	91	91	92	77	66	71	71	91	80	89	62	90	93	79	1,898	June
July	102	115	87	78	97	94	90	92	74	99	99	92	100	83	80	78	80	76	70	92	98	94	99	2,069	July
August	96	83	77	87	89	92	77	96	94	87	94	86	79	90	78	82	73	75	93	69	83	77	146	2,003	August
September	100	93	64	85	94	70	86	89	85	80	79	71	76	80	68	76	79	74	90	89	76	63	97	1,864	September
October	96	82	76	92	103	80	73	83	88	88	87	96	94	84	92	78	87	71	79	89	94	109	90	2,011	October
November	70	85	85	72	77	74	78	78	96	77	71	93	74	78	88	92	81	71	96	72	89	81	79	1,857	November
December	92	85	84	73	100	67	86	88	85	74	75	85	97	79	76	95	83	70	64	87	85	88	89	1,907	December
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	22,971	total

Prefecture of fatal and non-fatal accidents in meat/dairy products in 1999-2021

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	65	82	69		71		73	82	72	80	71	68	58	60	83	62	67	68	73	78	64	59	78	1,483	Hokkaido
Aomori	15	21	20		23		18	14	24	21	17	17	20	20	21	22	17	20	27	24	15	17	18	411	Aomori
Iwate	46	49	48		41		33	46	40	31	36	41	38	23	24	25	33	29	29	34	25	25	27	723	Iwate
Miyagi	33	17	18		14		23	28	19	31	32	21	20	19	21	14	21	9	7	16	25	14	18	420	Miyagi
Akita	4	2	2		6		5	6	4	2	4	4	3	7	6	7	4	3	8	5	4	9	3	98	Akita
Yamagata	11	15	16		18		7	21	17	10	16	14	15	23	13	12	13	16	13	16	15	15	17	313	Yamagata
Fukushima	14	12	18		11		11	11	10	11	10	12	7	13	7	10	3	8	13	11	9	10	47	258	Fukushima
Ibaraki	37	36	29		47		63	52	43	49	46	53	57	46	32	44	51	45	48	43	58	51	45	975	Ibaraki
Tochigi	17	19	13		14		11	9	9	8	10	15	7	16	11	15	15	14	16	11	13	7	13	263	Tochigi
Gunma	53	41	27		36		26	29	38	37	39	24	25	28	25	32	28	38	35	27	26	33	21	668	Gunma
Saitama	38	28	46		63		42	41	37	57	43	50	43	53	51	63	54	52	50	46	53	64	84	1,058	Saitama

Yamaguchi	10	10	14		19		19	9	10	19	17	20	12	18	17	19	15	11	14	19	13	14	12	311	Yamaguchi
Tokushima	23	23	17		20		23	18	15	19	17	18	14	16	17	8	20	17	14	13	15	19	23	369	Tokushima
Kagawa	12	17	13		18		10	12	9	7	6	8	19	10	8	10	7	5	7	5	8	4	6	201	Kagawa
Ehime	16	19	20		17		12	13	11	8	20	9	20	21	24	15	25	11	15	9	7	19	10	321	Ehime
Kochi	7	5	3				5	3	4	9	2	5	1	1	2	4	3	8	4	1	7	5	3	82	Kochi
Fukuoka	38	48	44		41		23	43	39	40	36	44	36	23	29	36	28	32	28	36	30	33	50	757	Fukuoka
Saga	24	19	24		23		27	22	24	23	12	11	20	14	26	21	20	27	23	22	26	19	12	439	Saga
Nagasaki	26	17	21		13		18	18	10	16	25	33	17	28	13	32	22	19	20	23	17	12	12	412	Nagasaki
Kumamoto	51	28	34		45		39	44	32	27	26	29	41	30	42	27	34	27	28	43	39	35	28	729	Kumamoto
Oita	11	4	14		8		6	9	6	2	6	5	4	3	5	4	2	3	4	3	5	1	4	109	Oita
Miyazaki	57	77	58		45		46	39	42	53	49	85	77	47	52	41	35	41	32	37	52	39	65	1,069	Miyazaki
Kagoshima	74	77	87		77		84	63	62	56	56	54	51	71	60	56	59	49	61	64	64	56	66	1,347	Kagoshima
Okinawa	20	18	13		13		9	11	18	8	16	10	12	16	12	13	10	10	12	11	19	18	14	283	Okinawa
total	1,090	1,050	996		1,082		994	1,010	973	1,019	1,000	1,018	998	945	944	954	977	907	948	996	1,007	996	1,132	21,036	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)

Return to https://www.jisha.or.jp/english/statistics/2021e_industry.html

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 Fatal accidents in meat/dairy products in Japan in 1999-2021

meat/dairy products industry Code No.010101

Type of fatal accidents in meat/dairy products 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									1							1	1	1	1			7	fall from height	
falling to same level				1																		1		2	falling to same level	
crash								1																1	crash	
struck by flying or falling object						1																		1	struck by flying or falling object	
collapse							1											1						2	collapse	
crashed by							1	3			1			1										6	crashed by	
caught in/between	1	1		2		1	1	1		1	1	1	1					1	1		1			14	caught in/between	
cut					1			1			1			1										4	cut	
injury to the sole of the foot																										injury to the sole of the foot
drown													5											5	drown	
contact to high/low-temperature							1							1										2	contact to high/low-temperature	
contact to harmful substance																										contact to harmful substance
electric shock														1										1	electric shock	

general machine	1	1		1	1		1					1										1			7	machine
mobile silviculture machine																										mobile silviculture machine
crane												1	1												3	crane
conveying machine		1	1	1		2	1	2		2	1	1	1			2									15	conveying machine
vehicle									1	2	1					1									5	vehicle
pressure vessel																										pressure vessel
chemical facilities																										chemical facilities
welding equipment																										welding equipment
kiln, caldron																										kiln, caldron
electric equipment																										electric equipment
human power machine, tools							1	1								1									3	human power machine, tools
tools		1																							2	tools
other equipments, facilities						1					1					1									3	other equipments, facilities
temporary buildings, establishments								1																	3	temporary buildings, establishments

Workers' number of workplace of fatal accidents in meat/dairy products 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		2				1	1	1		3								1						9	9 workers or less
10-29			1					1			1		4	1		2					1	1		12	10-29
30-49	1						1	1			1		5	1		1								11	30-49
50-99						1	1	2	1					1					2		1			9	50-99
100-299		2		3	2	1	1	1			3	1	1		1			2		1	1			20	100-299
300 workers or more							1	1		1				1							1			5	300 workers or more
total	1	4	1	3	2	3	5	7	1	4	5	1	10	4	1	3		3	2	1	4	1		66	total

Month of fatal accidents in meat/dairy products 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							1				1							1						3	January
February		1			1	1	1		1									1						6	February
March										1	1		8								2			12	March
April		1				1	1	2			1													6	April
May						1	1					1				1						1		5	May
June														1	1									2	June
July		1			1						2		1						1					6	July
August								2		2				1		1			1					7	August
September	1	1		1				1					1	1						1	2			9	September
October			1	1																				2	October

Saga				1																			1	Saga
Nagasaki				1																			1	Nagasaki
Kumamoto							1			1										1			3	Kumamoto
Oita														1									1	Oita
Miyazaki			1			1																	2	Miyazaki
Kagoshima		1																					1	Kagoshima
Okinawa																								Okinawa
total	1	4	1	3	2	3	5	7	1	4	5	1	10	4	1	3		3	2	1	4	1	66	total

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

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