bread/cake products industry Code No.010104

Type of accidents in bread/cake products in 1999-2021

	1000												2011				2015								
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	81	67	97	76	84	91	77	93	114	100	95	95	88	84	90	78	86	98	95	105	92	110	102	2,098	fall from height
falling to same level	208	207	245	229	275	235	263	261	296	306	287	307	273	303	310	295	329	345	349	354	335	323	341	6,676	falling to same level
crash	30	39	35	31	35	41	38	45	53	44	52	57	40	39	41	51	47	48	46	63	51	66	56	1,048	crash
struck by flying or falling object	37	31	26	35	34	25	24	40	44	39	45	47	35	35	38	40	23	49	39	34	37	37	32	826	struck by flying or falling object
collapse	6	8	6	8	15	10	10	8	9	3	11	20	11	12	12	18	10	17	18	17	21	13	11	274	collapse
crashed by	22	15	26	20	23	22	29	27	31	25	21	24	26	20	25	23	28	34	34	26	35	24	32	592	crashed by
caught in/between	454	465	481	442	432	421	462	421	397	402	361	372	366	334	337	311	300	290	336	326	311	261	287	8,569	caught in/between
cut	147	167	170	144	142	149	112	109	131	128	113	128	100	119	86	111	103	99	87	79	73	83	85	2,665	cut
injury to the sole of the foot	2		1	1	1	1	1	3	3		1			2	2		1	2	1		1		2	25	injury to the sole
drown					1								3											4	drown
contact to high/low- temperature	65	53	52	68	68	54	56	55	62	82	55	52	45	64	59	61	59	65	50	74	50	74	76	1,399	contact to high/low- temperature
contact to harmful	4	1	6	8	6	3	6	5	11	6	4	6	11	7	6		7	7	4	2	4	5	4	123	contact to harmful

substance																									substance
electric shock		6		1	2	1	2		2				2		1		1	1		3			1	23	electric shock
explosion	2	1	2				3	1		1				1			1	1	1			1		15	explosion
burst									1							1	1							3	burst
fire		1			1	1										1				1	1			6	fire
traffic accident (public road)	30	21	29	16	16	19	23	18	17	12	14	17	17	16	17	13	9	5	14	7	4	10	9	353	traffic accident (public road)
traffic accident (others)				1	2					1		1			1					2	1			9	traffic accident (others)
reaction to motion/improper motion	72	74	55	71	63	67	79	69	96	101	85	87	77	85	102	98	121	102	96	109	111	109	122	2,051	reaction to motion/improper motion
others	4	2	4	2	4	4	2		9	3	1	6	3	5	3	4	4	1	4	6	6	4	145	226	others
unclassifiable	1			1	1		2	3	1	1	2	2		1	1	2		1	1	1	3			24	unclassifiable
total	1,165	1,158	1,235	1,154	1,205	1,144	1,189	1,158	1,277	1,254	1,147	1,221	1,097	1,127	1,131	1,107	1,130	1,165	1,175	1,209	1,136	1,120	1,305	27,009	total

Causal agents (large) of fatal and non-fatal accidents in bread/cake 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	527	537	558	503	477	482	490	425	422	433	395	438	391	374	369	337	307	315	331	325	296	265	291	9,288	machine
crane, conveying machine	114	103	119	107	116	110	118	125	122	114	94	102	95	83	76	82	71	80	105	89	74	89	60	2,248	crane, conveying machine
other equipment	154	141	158	156	187	157	152	173	226	203	171	197	182	193	184	213	240	259	222	232	239	261	268	4,568	other

																									equipment
temporary buildings, establishments	210	228	254	236	275	256	285	269	312	321	295	316	269	315	313	300	324	347	331	374	345	331	355	6,861	temporary buildings, establishments
substance, material	41	32	41	34	51	39	42	34	44	40	48	35	36	34	34	50	41	42	40	34	37	33	34	896	substance, material
load	48	54	56	52	37	42	49	51	70	64	66	55	43	54	73	48	68	58	56	72	61	68	58	1,303	load
environment	17	19	12	23	13	16	9	28	20	20	17	18	24	25	29	20	19	16	24	25	17	23	32	466	environment
others	54	44	37	43	49	42	44	53	61	59	61	60	57	49	53	57	60	48	66	58	67	50	207	1,379	others
total	1,165	1,158	1,235	1,154	1,205	1,144	1,189	1,158	1,277	1,254	1,147	1,221	1,097	1,127	1,131	1,107	1,130	1,165	1,175	1,209	1,136	1,120	1,305	27,009	total

Causal agents (middle) of fatal and non-fatal accidents in bread/cake 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															2	engine
power transmission mechanism	25	16	17	22	8	13	9	10	13	12	17	14	8	11	5	13	14	10	13	16	10	10	12	298	power transmission mechanism
woodworking machine	1		1		1	1			1	1				1				3	1					11	woodworking machine
construction machine															2									2	construction machine
metal manufacturing machine	22	16	8	2	5	1	4	4	4	3	1	2		2	1	1		1		2			2	81	metal manufacturing machine

general machine	479	505	532	479	463	466	477	411	403	417	377	422	383	360	361	323	293	301	317	307	286	255	277	8,894	general machine
mobile silviculture machine																									mobile silviculture machine
crane	8	5	5	4	3	11	7	4	9	3	2	12	2	5	4	5	4	2	2	4	3	1	3	108	crane
conveying machine	82	78	93	89	95	79	90	103	96	93	78	76	79	61	59	62	57	72	85	75	63	77	50	1,792	conveying machine
vehicle	24	20	21	14	18	20	21	18	17	18	14	14	14	17	13	15	10	6	18	10	8	11	7	348	vehicle
pressure vessel	2	3	3	2	2	2	4	3	3	3	6	1				3		3		1	1	3		45	pressure vessel
chemical facilities	1												1					1						3	chemical facilities
welding equipment					1																			1	welding equipment
kiln, caldron	6	4	4	6	4	4	3	5	5	4	1	4	2	3		5	4	3	5	6	4	5	6	93	kiln, caldron
electric equipment	5	3	2	2		2	2	4	4	2		3	2	3	2	2	1	3	4	1	5	6	3	61	electric equipment
human power machine, tools	54	54	69	50	72	50	49	66	77	69	65	71	69	74	76	76	80	102	70	78	99	92	94	1,656	human power machine, tools
tools	63	53	63	62	69	71	62	72	87	88	73	84	73	77	83	94	109	101	103	103	100	105	109	1,904	tools
other equipments,	23	24	17	34	39	28	32	23	50	37	26	34	35	36	23	33	46	46	40	43	30	50	56	805	other equipments, facilities
temporary buildings, establishments	210	228	254	236	275	256	285	269	312	321	295	316	269	315	313	300	324	347	331	374	345	331	355	6,861	temporary buildings, establishments

hazards, harmful substances	12	7	16	9	14	9	17	5	12	13	14	9	14	12	10	17	17	19	14	9	11	9	11	280	hazards, harmful substances
materials	29	25	25	25	37	30	25	29	32	27	34	26	22	22	24	33	24	23	26	25	26	24	23	616	materials
load	48	54	56	52	37	42	49	51	70	64	66	55	43	54	73	48	68	58	56	72	61	68	58	1,303	load
natural environment	17	19	12	23	13	16	9	28	20	20	17	18	24	25	29	20	19	16	24	25	17	23	32	466	natural environment
other causal agent	18	10	12	11	15	10	11	13	19	16	11	6	15	14	18	13	13	9	16	8	14	10	155	437	other causal agent
no causal agent	33	33	25	30	32	32	32	37	41	43	44	52	42	34	34	41	45	39	49	49	50	38	52	907	no causal agent
unclassifiable	3	1		2	2		1	3	1		6	2		1	1	3	2		1	1	3	2		35	unclassifiable
total	1,165	1,158	1,235	1,154	1,205	1,144	1,189	1,158	1,277	1,254	1,147	1,221	1,097	1,127	1,131	1,107	1,130	1,165	1,175	1,209	1,136	1,120	1,305	27,009	total

Causal agents (small) of fatal and non-fatal accidents in bread/cake 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	engine
power transmission mechanism			17		8		9	10	13	12	17	14	8	11	5	13	14	10	13	16	10	10	12	222	power transmission mechanism
circular sawing machine			1						1	1				1				2	1					7	circular sawing machine
band sawing machine																									band sawing machine
wood planer machine																									wood planer 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											1			1	chain saw
other woodworking			1											1	other woodworking
machines														1	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									1					_	vehicle for high lift
work									I					ı	work
other construction									1					1	other construction
machines									I					•	machines
lathe			1											1	lathe
drill press, milling								1						1	drill press, milling
machine								1						1	machine
grinding machine,															grinding machine,

buffing machine	1	1			1	1		1						1		1			1	8	buffing machine
power press			1							1									1	3	power press
forging pressure hammer																					forging pressure
shearing machine	1			1	1		1													4	shearing machine
other metal manufacturing machines	6	3	3	3	2	2		1			1	1				1				23	other metal manufacturing machines
centrifugal machine									1			1						1		3	centrifugal machine
mixer, grinder	18	9	14	4	10	13	7	12	12	6	6	9	6	9	2	8	4	4	9	162	mixer, grinder
roll machine (except printingroll machine)	20	25	27	22	22	19	16	25	14	24	16	24	16	14	20	23	14	20	8	369	roll machine (except printingroll machine)
injection molding machine							1		1	2	3					1				8	injection molding machine
food manufacturing machine	375	316	340	291	288	285	267	294	279	260	248	215	200	211	233	209	202	174	193	4,880	food manufacturing machine
printing machine	1	1	1		1														1	5	printing machine
industrial robot			1				2	1		1				1	2			1	1	10	industrial robot
other general power machines	118	112	94	94	82	100	84	90	76	67	88	74	71	66	60	66	66	55	65	1,528	other general power machines
felling machine																					felling machine
mobile logging machine																					mobile logging machine
skyline yarding																					skyline yarding

machine																						machine
other mobile silviculture machine																						other mobile silviculture machine
crane		1								1	1		1		1			1			6	crane
mobile crane																						mobile crane
derrick crane																						derrick crane
elevator, lift		2	2	7	3	9	2	2	11	1	4	4	4	3		2	3	1		3	63	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	1		1		1		1					1	1		1	1	1		11	other powered crane
truck		33	29	21	22	23	15	19	19	15	12	13	9	9	15	16	14	11	20	10	325	truck
forklift		7	6	6	8	11	8	8	7	10	8	4	5	6	12	9	11	8	3	5	142	forklift
railway equipment																						railway equipment
conveyor		52	57	62	71	57	69	49	48	50	39	41	46	39	41	59	46	42	50	34	952	conveyor
loader																						loader
straddle carrier																						straddle carrier
rough terrain hauler			1																		1	rough terrain hauler
other powered		1	2	1	2	5	1	2	2	4	2	1	2	3	4	1	4	2	4	1	44	other powered

conveying machines																					conveying machin
cars, bus, motorcycle	21	18	21	18	16	18	14	14	13	16	13	15	10	6	18	7	7	11	6	262	cars, bus, motorcycle
railway vehicle																					railway vehicle
other vehicles					1				1	1						3	1		1	8	other vehicles
boiler	1		2		1		2											1		7	boiler
pressure vessel	1		1	2	1	3	2					2		1			1	1		15	pressure vessel
other pressure vessels	1	2	1	1	1		2	1				1		2		1		1		14	other pressure vessels
chemical facilities									1					1						2	chemical facilities
gas welding equipment		1																		1	gas welding equipment
arc welding equipment																					arc welding equipment
other welding equipment																					other welding equipment
kiln, caldron	3	3	2	3	3	4	1	2	2	3		5	3	1	4	3	3	3	4	52	kiln, caldron
industrial dryer				1	1			2					1			2	1			8	industrial dryer
other kiln, caldron	1	1	1	1	1									2	1	1		2	2	13	other kiln, caldro
transmission	1		1	1	1			2			1	1		3	3		4	6		24	transmission
electric power facilities					2			1	1	2									1	7	electric power
other electrical equipment	1		1	3	1	2			1	1	1	1	1		1	1	1		2	18	other electrical equipment
human power		2		1	1	1	1		1	1		1		1			7	6	16	39	human power

cranes																						cranes
human power hauling equipment		46	41	40	51	47	49	48	50	60	52	57	55	64	81	52	55	74	72	57	1,051	human power hauling equipment
human power machine		1				1	1	1			1	1	1	1	1	2	2		2		15	human power machine
hand tool		22	29	9	14	28	18	15	21	8	20	18	19	15	19	16	21	18	12	21	343	hand tool
ladder		30	30	25	29	36	36	32	35	33	27	32	33	35	38	39	42	39	43	39	653	ladder
slinging tool															1						1	slinging tool
other tools		33	39	37	43	51	52	41	49	40	50	51	61	74	62	64	61	61	62	70	1,001	other tools
other equipment,		17	39	32	23	50	37	26	34	35	36	23	33	46	46	40	43	30	50	56	696	other equipment,
scaffolding		1						1	1			1			1	2		1			8	scaffolding
timbering										1											1	timbering
stairs, landing stage		50	40	43	37	56	52	48	44	42	59	45	53	53	48	51	49	63	62	63	958	stairs, landing stage
opening					1	3	3	2	2	2	1	1	4	2	4	3	1	2	1	2	34	opening
roof, beam, haze, crossbeam, principal rafter		2	3	3	1	2	1	1	2	1	4	1	1	1		1	1	2		2	29	roof, beam, haze, crossbeam, principal rafter
working platform,		43	65	43	57	48	61	53	64	51	54	47	64	56	67	65	62	69	49	49	1,067	working platform, boot board
passage		122	121	147	132	142	164	143	156	136	156	166	140	171	170	172	214	165	169	188	2,974	passage
building, establishment		20	27	25	28	45	23	33	21	21	22	28	22	27	38	22	26	24	23	29	504	building, establishment
other temporary buildings, establishments		16	19	24	13	16	17	14	26	15	19	24	16	14	19	15	21	19	27	22	356	other temporary buildings, establishments

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explosive substance			2			1																	3	explosive substance
inflammable substance			4	1		1			2		1	1		1	2	1		1		1			16	inflammable substance
inflammable gas			1	2		5	2		2			1			1	2	2			1		1	20	inflammable gas
harmful substance			1			5	1	1	6		2	9	4	3	2	4	4	3	1		1	1	48	harmful substance
radiation																								radiation
other hazards, harmful substances			8	11		5	2	11	3	14	6	3	8	6	12	10	13	10	8	9	8	9	156	other hazards, harmful substances
metal material			8	10		9	16	13	9	16	8	8	9	5	8	6	8	10	12	7	13	8	183	metal material
lumber, bamboo			3	4		1	1	1	1	1	1				4			2		2		1	22	lumber, bamboo
stone, sand, substance			1						1					1	1								4	stone, sand, substance
other materials			13	23		15	12	18	16	17	17	14	13	18	20	18	15	14	13	17	11	14	298	other materials
load			51	35		44	49	65	60	60	53	38	51	66	44	64	56	52	70	59	64	57	1,038	load
machine/equipment as load			5	2		5	2	5	4	6	2	5	3	7	4	4	2	4	2	2	4	1	69	machine/equipment as load
natural ground,											1												1	natural ground,
standing tree											1							3					4	standing tree
water			1	4		1	5		4		1	6	3	5	2	1	3	2	2	6	4	3	53	water
abnormal environment							4	2			1	1	1										9	abnormal environment
high/cold temperature environment			4	2		3	6	8	9	8	6	5	8	12	7	10	7	7	14	9	16	12	153	high/cold temperature environment
. !!	- 11	- 11		 					**															

other environments		7	7	5	13	10	7	9	8	12	13	12	11	8	6	12	9	2	3	17	171	other environments
other causal agent		12	15	11	13	19	16	11	6	15	14	18	13	13	9	16	8	14	10	155	388	other causal agent
no causal agent		25	32	32	37	41	43	44	52	42	34	34	41	45	39	49	49	50	38	52	779	no causal agent
unclassifiable			2	1	3	1		6	2		1	1	3	2		1	1	3	2		29	unclassifiable
total		1,235	1,205	1,189	1,158	1,277	1,254	1,147	1,221	1,097	1,127	1,131	1,107	1,130	1,165	1,175	1,209	1,136	1,120	1,305	22,388	total

Workers age of fatal and non-fatal accidents in bread/cake 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	58	61	61	42	48	31	46	41	53	35	45	40	44	28	20	31	44	32	29	25	31	42	22	909	19 years old or less
20-29	272	244	261	231	247	247	237	213	209	196	205	195	196	192	197	200	160	165	190	183	176	177	262	4,855	20-29
30-39	186	167	180	187	202	217	190	207	232	218	200	209	177	206	198	153	185	173	128	170	153	161	176	4,275	30-39
40-49	249	245	266	236	232	216	231	200	248	251	202	240	222	234	249	246	234	236	268	228	209	205	236	5,383	40-49
50-59	293	314	342	323	326	322	371	353	383	365	318	341	296	279	280	284	310	348	345	352	286	303	326	7,460	50-59
60 years old or more	107	127	125	135	150	111	114	144	152	189	177	196	162	188	187	193	197	211	215	251	281	232	283	4,127	60 years old or more
total	1,165	1,158	1,235	1,154	1,205	1,144	1,189	1,158	1,277	1,254	1,147	1,221	1,097	1,127	1,131	1,107	1,130	1,165	1,175	1,209	1,136	1,120	1,305	27,009	total

Workers' number of workplace of fatal and non-fatal accidents in bread/cake 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	164	142	151	150	157	128	126	106	93	104	98	109	85	102	75	59	60	74	79	59	53	43	61	2,278	9 workers or less
10-29	245	257	254	237	208	205	232	220	176	198	178	202	157	157	167	155	149	130	123	145	109	124	154	4,182	10-29
30-49	166	179	197	148	156	169	174	182	173	167	151	160	139	141	117	117	128	105	132	137	136	113	120	3,407	30-49

50-99	164	170	194	181	202	182	190	173	209	174	165	199	173	175	182	169	163	185	187	195	191	189	193	4,205	50-99
100-299	244	260	256	258	275	273	283	252	335	336	316	320	302	295	340	316	358	381	351	360	342	343	359	7,155	100-299
300 workers or	182	150	183	180	207	187	184	225	291	275	239	231	241	257	250	291	272	290	303	313	305	308	418	5,782	300 workers or
more	102	150		100	207		104	223	271	2,3		231	271	257	250	271	2,2	250	505	313	303	500	10	3,702	more
total	1,165	1,158	1,235	1,154	1,205	1,144	1,189	1,158	1,277	1,254	1,147	1,221	1,097	1,127	1,131	1,107	1,130	1,165	1,175	1,209	1,136	1,120	1,305	27,009	total

Month of fatal and non-fatal accidents in bread/cake 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	107	79	112	80	95	101	98	100	96	105	101	91	91	100	84	81	100	105	113	119	118	97	96	2,269	January
February	93	97	85	71	102	92	101	87	100	100	101	104	66	104	80	110	82	93	101	92	77	91	97	2,126	February
March	88	86	106	90	96	96	104	89	105	81	96	103	85	123	117	71	105	90	98	109	94	96	132	2,260	March
April	88	98	89	87	97	92	94	111	103	108	107	113	80	97	89	72	88	107	96	111	89	69	156	2,241	April
May	101	92	110	87	92	87	93	100	98	106	95	91	88	92	97	72	82	98	105	90	92	69	97	2,134	May
June	104	96	109	99	117	99	79	93	104	107	75	96	80	79	92	105	103	91	97	77	80	109	100	2,191	June
July	101	102	95	116	104	106	121	109	126	127	98	117	98	86	104	112	94	113	86	116	120	96	98	2,445	July
August	88	84	98	100	112	101	93	94	130	107	89	100	96	97	87	85	100	95	93	77	104	98	112	2,240	August
September	105	89	84	126	92	94	106	83	113	114	93	91	104	80	88	110	91	94	83	104	81	95	104	2,224	September
October	84	104	109	112	100	97	99	86	102	95	106	101	96	87	87	90	86	82	98	116	98	107	95	2,237	October
November	100	128	108	107	96	93	88	100	104	103	89	105	103	96	110	95	97	100	85	99	99	97	112	2,314	November
December	106	103	130	79	102	86	113	106	96	101	97	109	110	86	96	104	102	97	120	99	84	96	106	2,328	December
total	1,165	1,158	1,235	1,154	1,205	1,144	1,189	1,158	1,277	1,254	1,147	1,221	1,097	1,127	1,131	1,107	1,130	1,165	1,175	1,209	1,136	1,120	1,305	27,009	total

Prefecture of fatal and non-fatal accidents in bread/cake 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	60	76	93		52		64	56	85	80	93	98	54	52	64	56	65	60	63	58	48	67	87	1,431	Hokkaido
Aomori	13	7	9		13		13	6	9	7	7	3	7	5	4	7	4	5	7	8	6	5	5	150	Aomori
lwate	26	16	14		12		15	20	23	13	18	16	10	14	12	16	22	14	24	15	19	12	15	346	lwate
Miyagi	16	12	20		12		12	20	15	16	16	15	9	20	13	14	15	10	13	13	20	24	21	326	Miyagi
Akita	7	7	8		7		7	4	7	6	7	7	5	12	4	6	7	5	4	7	5	6	5	133	Akita
Yamagata	11	15	11		23		19	11	9	13	8	11	11	12	9	6	4	6	10	14	8	10	11	232	Yamagata
Fukushima	19	19	11		18		11	8	14	15	13	9	13	8	16	6	8	13	11	13	12	12	18	267	Fukushima
Ibaraki	28	20	48		50		36	42	42	41	45	37	47	40	33	40	41	46	41	55	42	41	38	853	lbaraki
Tochigi	22	23	18		31		23	19	28	24	19	17	27	34	38	26	34	30	25	36	30	30	31	565	Tochigi
Gunma	15	11	21		15		14	21	11	11	20	22	18	18	25	25	24	20	26	22	22	25	27	413	Gunma
Saitama	62	62	62		92		96	94	106	109	94	85	72	104	99	110	86	113	111	114	114	87	174	2,046	Saitama
Chiba	38	28	32		32		37	41	47	32	40	36	34	40	44	46	39	35	39	40	35	31	60	806	Chiba
Tokyo	40	40	54		58		55	51	39	36	44	44	45	55	48	43	34	56	46	42	40	46	54	970	Tokyo
Kanagawa	56	46	48		60		49	51	61	57	46	59	42	47	42	48	38	50	52	47	42	56	53	1,050	Kanagawa
Niigata	49	45	52		57		42	54	56	50	35	42	33	38	42	35	29	43	54	36	30	35	42	899	Niigata
Toyama	12	14	9		12		16	9	9	11	10	4	8	11	3	6	6	8	5	8	8	2	11	182	Toyama
Ishikawa	14	11	8		14		17	17	12	17	10	21	16	9	12	13	15	5	10	14	17	11	8	271	Ishikawa
Fukui	2	7	10		2		5	1	10	3	8	8	2	4	3	3	7	5	2	6	3	3	3	97	Fukui
Yamanashi	16	5	11		15		13	6	15	23	8	13	36	8	35	20	15	16	25	27	17	14	15	353	Yamanashi
Nagano	30	21	32		21		25	26	28	36	29	28	36	28	20	25	27	24	28	27	27	8	19	545	Nagano
Gifu	29	25	27		20		24	31	29	39	18	31	30	27	19	22	31	21	17	34	28	27	38	567	Gifu
Shizuoka	41	39	40		23		27	38	38	41	33	28	24	25	28	23	41	43	34	30	32	28	25	681	Shizuoka
Aichi	95	83	94		103		104	91	82	80	77	96	93	98	94	94	90	91	75	106	66	93	93	1,898	Aichi
							<u> </u>																	.,,,,,,	

Mie	21	34	38	25	20	25	20	21	33	25	30	27	21	30	24	24	32	28	30	16	21	545	Mie
Shiga	14	13	13	7	13	9	14	12	7	4	7	9	17	14	16	20	15	15	9	13	11	252	Shiga
Kyoto	25	25	39	24	28	25	36	22	25	38	30	24	33	26	21	25	23	36	26	27	22	580	Kyoto
Osaka	58	79	75	72	57	63	63	87	72	81	65	62	45	45	68	69	68	61	71	66	60	1,387	Osaka
Hyogo	65	65	57	57	54	42	68	60	42	53	48	53	50	60	63	63	71	51	63	54	59	1,198	Hyogo
Nara	16	14	9	6	15	6	22	11	14	15	11	11	14	13	9	7	13	14	15	10	11	256	Nara
Wakayama	8	3	4	9		10	3	5	4	5	4	5	3	4	7	4	4	3	3	5	5	98	Wakayama
Tottori	8	7	10	8	4	3	4	8	2	2	5	2	3	10	5	5	5	7	9	6	16	129	Tottori
Shimane	9	5	5	4	2	5	4	7	4	4	4	4	4	5	3	2		4	2		4	81	Shimane
Okayama	14	8	13	18	18	32	25	17	27	21	17	17	19	13	22	17	22	16	29	20	22	407	Okayama
Hiroshima	21	24	30	24	33	24	31	23	17	31	25	24	27	20	27	27	11	20	30	27	50	546	Hiroshima
Yamaguchi	15	13	16	12	11	5	16	7	11	11	7	5	8	8	11	10	6	4	7	12	2	197	Yamaguchi
Tokushima	6	6	3	6	4	8	6	7	3	6	7	7	6	2	2	2	3	3	3	5	4	99	Tokushima
Kagawa	10	5	7	7	6	4	6	2	6	7	6	8	7	6	4	4	10	5	9	8	7	134	Kagawa
Ehime	10	13	17	13	17	8	12	24	19	19	15	12	24	22	12	12	6	13	17	17	18	320	Ehime
Kochi	8	14	11	17	13	11	10	10	13	12	10	6	8	4	5	7	5	5	5	6	8	188	Kochi
Fukuoka	56	60	57	55	63	58	57	57	48	47	52	44	45	53	49	55	49	67	48	60	51	1,131	Fukuoka
Saga	8	27	15	6	10	14	16	20	8	12	6	13	11	9	11	12	25	19	14	15	6	277	Saga
Nagasaki	21	29	16	25	21	27	16	9	22	16	15	17	18	15	20	27	15	18	18	17	13	395	Nagasaki
Kumamoto	23	30	19	21	22	17	29	24	29	21	18	10	16	15	18	15	18	11	7	20	14	397	Kumamoto
Oita	6	12	8	11	11	6	6	13	5	9	6	7	5	5	5	8	4	3	6	7	9	152	Oita
Miyazaki	11	14	9	5	5	6	7	8	5	6	5	5	10	14	8	10	6	3	6	5	3	151	Miyazaki
Kagoshima	19	12	14	14	22	16	14	17	10	21	15	19	12	12	21	9	23	12	19	15	13	329	Kagoshima
Okinawa	12	14	18	17	16	17	17	23	23	25	17	27	18	12	17	12	19	19	19	16	23	381	Okinawa
Okinawa	12	14	18	17	16	17	17	23	23	25	17	27	18	12	17	12	19	19	19	16	23	381	OI

total 1,165 1,158 1,235 1,205 1,189 1,158 1,277 1,254 1,147 1,221 1,097 1,127 1,131 1,107 1,130 1,165 1,175 1,209 1,136 1,120	20 1,305 24,711 total
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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

Fatal accidents in bread/cake products in Japan in 1999-2021

bread/cake products industry Code No.010104

Type of fatal accidents in bread/cake 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		1		1			1				2	1	1			1	3							11	fall from height
falling to same level	1					1						1			1						1			5	falling to same
crash																									crash
struck by flying or falling object		1	1																					2	struck by flying or falling object
collapse																									collapse
crashed by	1																							1	crashed by
caught in/between	2		2	2	4	3	3	1		1		1					2	1	1		2	1	1	27	caught in/between
cut																									cut

injury to the sole of the foot																							injury to the sole
																							of the foot
drown					1							3										4	drown
contact to high/low-																							contact to
temperature			1										1	2								4	high/low-
																							temperature
contact to harmful substance		1				1																2	contact to harmful
contact to naminal substance		•				•																	substance
electric shock																							electric shock
explosion																		1				1	explosion
burst																							burst
fire																							fire
traffic accident (public road)	2	3	1	1	2	2	3	1			1				1					1		20	traffic accident
tranic accident (public road)	2	3			2	2	3	ľ														20	(public road)
traffic accident (others)																							traffic accident
tranic accident (others)																							(others)
reaction to motion/imprener																							reaction to
reaction to motion/improper																							motion/improper
lilotton																							motion
others												1							1			2	others
unclassifiable																							unclassifiable
total	6	6	5	4	7	7	7	2	1	2	4	5	1	3	2	5	1	3	4	2	2	79	total

Causal agents (large) of fatal accidents in bread/cake products in 1999-2021

				$\overline{}$			$\overline{}$	$\overline{}$				$\overline{}$						$\overline{}$						$\overline{}$		
								I I								1						I I		l		
(Carrage 1 (1) a manata	1000	2000	2001	2002			2005	2006	2007	2000		2010	2011	2012	2012	2014	2015	2016	2017	2010	2010	2020	2021	1 - 4 - 1	C1 (1)	_ !
Causal (L) agents	11999	2000	2001	2002	2003	2004	2005	12006	2007	2008	2009	120 I U	2011	1120 I Z	2013	2014	120151	2016	2017	120181	2019	12020	1202 I I	totai	(L) agents	اد
	11																	-•.•		-•.•				1.0.0	(-, g-::-	1
II .	III I																			1 11				ı		

machine	1		1	1	2	3	2	1	1		1					1		1	2	1	1	19	machine
crane, conveying machine	4	4	3	2	4	3	4	1		2	1				1	2	1	1		1	1	35	crane, conveying machine
other equipment							1					1						1	1			4	other equipment
temporary buildings, establishments	1	1		1	1	1					1			1	1	2						10	temporary buildings, establishments
substance, material		1																				1	substance, material
load																							load
environment			1								1	4	1	2								9	environment
others																			1			1	others
total	6	6	5	4	7	7	7	2	1	2	4	5	1	3	2	5	1	3	4	2	2	79	total

Causal agents (middle) of fatal accidents in bread/cake 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																									engine
																									power
power transmission mechanism																									transmission
																									mechanism
woodworking machine																									woodworking
woodworking machine																									machine
construction machine																									construction
Construction machine																									machine
																									metal

metal manufacturing machine																						manufacturing machine
general machine	1		1	1	2	3	2	1	1		1				1		1	2	1	1	19	general machine
mobile silviculture machine																						mobile silvicultur
crane		1	1	1	1					1					2						7	crane
conveying machine	3	2	1		1	2	2			1	1					1					14	conveying machi
vehicle	1	1	1	1	2	1	2	1						1			1		1	1	14	vehicle
pressure vessel																						pressure vessel
chemical facilities																						chemical facilities
welding equipment																						welding equipment
kiln, caldron																	1				1	kiln, caldron
electric equipment																						electric equipme
human power machine, tools																						human power
tools							1					1						1			3	tools
other equipments, facilities																						other equipment
temporary buildings, establishments	1	1		1	1	1					1		1	1	2						10	temporary buildings, establishments
hazards, harmful substances		1																			1	hazards, harmful
materials																						materials

load																							load
natural environment			1								1	4	1	2								9	natural environment
other causal agent																							other causal agent
no causal agent																			1			1	no causal agent
unclassifiable																							unclassifiable
total	6	6	5	4	7	7	7	2	1	2	4	5	1	3	2	5	1	3	4	2	2	79	total

Causal agents (small) of fatal accidents in bread/cake 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																									engine
power transmission mechanism																									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												chain saw
other woodworking machines												other woodworking machines
leveling, transporting or loading machine												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 work												vehicle for high lift work
other construction machines												other construction machines
lathe												lathe
drill press, milling machine												drill press, milling machine
grinding machine, buffing machine												grinding machine, buffing machine
power press												power press
forging pressure hammer												forging pressure
shearing machine												shearing machine
												other metal

other metal manufacturing machines																		manufacturing
macrimes																		machines
centrifugal machine																		centrifugal machin
mixer, grinder		1			1				1								3	mixer, grinder
roll machine (except																		roll machine (exce
printingroll machine)																		printingroll machine)
injection molding machine																		injection molding
food manufacturing machine	1		1	2	2	2	1	1						2		1	13	food manufacturii
printing machine																		printing machine
industrial robot													1				1	industrial robot
other general power machines												1			1		2	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 machi
crane																		crane
mobile crane																		mobile crane
derrick crane																		derrick crane

elevator, lift		1	1		1					1				2						6	elevator, lift
cargo lifting appliance																					cargo lifting
cargo mang appliance																					appliance
gondola																					gondola
lumberyard equipment,																					lumberyard
logging cableway																					equipment, loggin
,																					cableway
simple skyline yarding																					simple skyline
equipment																					yarding equipmen
other powered crane				1																1	other powered
				<u> </u>																	crane
truck	2	2	1		1	2	1				1									10	truck
forklift	1									1										2	forklift
railway equipment																					railway equipmen
conveyor							1								1					2	conveyor
loader																					loader
straddle carrier																					straddle carrier
rough terrain hauler																					rough terrain hau
other powered conveying																					other powered
machines																					conveying machin
and has materials	1	1	1	1	1	1	1	1					1			1		1	1	12	cars, bus,
cars, bus, motorcycle	1	1			1	'	2	1					'			'		ı	ļ .	13	motorcycle
railway vehicle																					railway vehicle
other vehicles					1															1	other vehicles
boiler																					boiler

pressure vessel														pressure vessel
other pressure vessels														other pressure vessels
chemical facilities														chemical facilities
gas welding equipment														gas welding equipment
arc welding equipment														arc welding equipment
other welding equipment														other welding equipment
kiln, caldron										1			1	kiln, caldron
industrial dryer														industrial dryer
other kiln, caldron														other kiln, caldron
transmission														transmission
electric power facilities														electric power facilities
other electrical equipment														other electrical equipment
human power cranes														human power cranes
human power hauling equipment														human power hauling equipment
human power machine														human power machine
hand tool														hand tool
ladder				1			1						2	ladder

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slinging tool																						slinging tool
other tools																		1			1	other tools
other equipment, facilities																						other equipment,
scaffolding																						scaffolding
timbering																						timbering
stairs, landing stage		1													1						2	stairs, landing stage
opening																						opening
roof, beam, haze, crossbeam, principal rafter																						roof, beam, haze, crossbeam, principal rafter
working platform, boot board											1										1	working platform, boot board
passage						1															1	passage
building, establishment	1			1	1									1	1						5	building, establishment
other temporary buildings, establishments													1								1	other temporary buildings, establishments
explosive substance																						explosive substance
inflammable substance																						inflammable substance
inflammable gas																						inflammable gas
harmful substance		1																			1	harmful substance
radiation																						radiation
II	11	11	11	100			10	11	11	11							11	11	1	11	11	11

other hazards, harmful																							other hazards,
substances																							harmful substances
metal material																							metal material
lumber, bamboo																							lumber, bamboo
stone, sand, substance																							stone, sand, substance
other materials																							other materials
load																							load
machine/equipment as load																							machine/equipment as load
natural ground, rock											1											1	natural ground,
standing tree																							standing tree
water												4										4	water
abnormal environment																							abnormal environment
high/cold temperature environment			1										1	2								4	high/cold temperature environment
other environments																							other environments
other causal agent																							other causal agent
no causal agent																			1			1	no causal agent
unclassifiable																							unclassifiable
total	6	6	5	4	7	7	7	2	1	2	4	5	1	3	2	5	1	3	4	2	2	79	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																									19 years old or less
20-29	1	2	1		1	3	1					1							1					11	20-29
30-39	1	2		1	1								1	1	2		2				1	1		13	30-39
40-49			2	1		1	2			1		2						1				1	1	12	40-49
50-59	3	2	1	2	3	1	4	2			2	1	1		1	1	1		2		1			28	50-59
60 years old or more	1		1		2	2							3			1	2				2		1	15	60 years old or more
total	6	6	5	4	7	7	7	2		1	2	4	5	1	3	2	5	1	3		4	2	2	79	total

Workers' number of workplace of fatal accidents in bread/cake 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					1	1	1						2				1		1					7	9 workers or less
10-29	3	1	1	1		3	1			1					1		2		1		1		1	17	10-29
30-49	1	2	3		1	1		1				1	2				1					1		14	30-49
50-99		1		2	1	1	1					1	1		1	1					1			11	50-99
100-299			1		2		1				1	1				1		1					1	9	100-299
300 workers or more	2	2		1	2	1	3	1			1	1		1	1		1		1		2	1		21	300 workers or more
total	6	6	5	4	7	7	7	2		1	2	4	5	1	3	2	5	1	3		4	2	2	79	total

Month of fatal accidents in bread/cake 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	mu	2020	<i> </i>	total	Month

January			1			1	2												2			6	January
February		3			1	1				1					1			1				8	February
March	1				1			1				4						2			1	10	March
April					1	1	1				1											4	April
May	2		1	2			1				1				1	1			1		1	11	May
June	1	1					2							1								5	June
July					1		1		1		1			1		1						6	July
August	1		2	1		2							1	1		2			1			11	August
September				1																		1	September
October	1					2														1		4	October
November		1			1							1				1	1					5	November
December		1	1		2			1		1	1									1		8	December
total	6	6	5	4	7	7	7	2	1	2	4	5	1	3	2	5	1	3	4	2	2	79	total

Prefecture of fatal accidents in bread/cake 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							1					1							1		1			4	Hokkaido
Aomori																					1			1	Aomori
lwate		1											1											2	lwate
Miyagi				1	1	1							3											6	Miyagi
Akita																									Akita
Yamagata													1											1	Yamagata
Fukushima						1													1					2	Fukushima
Ibaraki			1				1										1				2			5	Ibaraki

Taskini								\vdash										$\vdash \vdash$	_		1	Tochini
Tochigi																						Tochigi
Gunma																						Gunma
Saitama			1	1	2						1								1		6	Saitama
Chiba																						Chiba
Tokyo		1											1								2	Tokyo
Kanagawa														1							1	Kanagawa
Niigata	1									1											2	Niigata
Toyama																						Toyama
Ishikawa																						Ishikawa
Fukui																						Fukui
Yamanashi																						Yamanashi
Nagano		2	1																		3	Nagano
Gifu	1								1											2	4	Gifu
Shizuoka	2					1										1					4	Shizuoka
Aichi					2	1	1										1				5	Aichi
Mie											1										1	Mie
Shiga							1														1	Shiga
Kyoto			1			1									1						3	Kyoto
Osaka	1	1		1			1	1						1							6	Osaka
Hyogo				1						1	1		1		1				1		6	Hyogo
Nara																						Nara
Wakayama						1															1	Wakayama
Tottori							1														1	Tottori
Shimane																						Shimane

Okayama																							Okayama
Hiroshima	1															1						2	Hiroshima
Yamaguchi																							Yamaguchi
Tokushima																							Tokushima
Kagawa																							Kagawa
Ehime					2									1								3	Ehime
Kochi																							Kochi
Fukuoka							1	1								1						3	Fukuoka
Saga																							Saga
Nagasaki			1																			1	Nagasaki
Kumamoto																							Kumamoto
Oita																							Oita
Miyazaki																							Miyazaki
Kagoshima						1																1	Kagoshima
Okinawa		1											1									2	Okinawa
total	6	6	5	4	7	7	7	2	1	2	4	5	1	3	2	5	1	3	4	2	2	79	total

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

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