

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	289	9,183
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	2	110
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	55	1,847
vehicle	24	20	21	14	18	20	21	18	17	18	14	14	14	17	13	15	10	6	18	10	8	11	7	11	359
pressure vessel	2	3	3	2	2	2	4	3	3	3	6	1				3		3		1	1	3			45
chemical facilities	1												1					1							3
welding equipment					1																				1
kiln, caldron	6	4	4	6	4	4	3	5	5	4	1	4	2	3		5	4	3	5	6	4	5	6	12	105
electric equipment	5	3	2	2		2	2	4	4	2		3	2	3	2	2	1	3	4	1	5	6	3	6	67
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	94	1,750
tools	63	53	63	62	69	71	62	72	87	88	73	84	73	77	83	94	109	101	103	103	100	105	109	116	2,020
other equipments, facilities	23	24	17	34	39	28	32	23	50	37	26	34	35	36	23	33	46	46	40	43	30	50	56	48	853
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	322	7,183
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	11	291
materials	29	25	25	25	37	30	25	29	32	27	34	26	22	22	24	33	24	23	26	25	26	24	23	21	637

conveying machines			1		2		1	2	5	1	2	2	4	2	1	2	3	4	1	4	2	4	1		44
cars, bus, motorcycle			21		18		21	18	16	18	14	14	13	16	13	15	10	6	18	7	7	11	6	11	273
railway vehicle																									
other vehicles									1				1	1					3	1		1			8
boiler			1				2		1		2											1			7
pressure vessel			1				1	2	1	3	2					2		1			1	1			15
other pressure vessels			1		2		1	1	1		2	1				1		2		1		1			14
chemical facilities													1					1							2
gas welding equipment					1																				1
arc 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	12	64
industrial dryer								1	1			2				1			2	1					8
other kiln, caldron			1		1		1	1	1								2	1	1		2	2			13
transmission			1				1	1	1			2			1	1		3	3		4	6		5	29
electric power facilities									2			1	1	2									1		7
other electrical			1				1	3	1	2			1	1	1	1			1	1	1		2	1	19

establishment			20		27		25	28	45	23	33	21	21	22	28	22	27	38	22	26	24	23	29	28	532
other temporary buildings, establishments			16		19		24	13	16	17	14	26	15	19	24	16	14	19	15	21	19	27	22	15	371
explosive substance			2				1																		3
inflammable substance			4		1		1			2		1	1		1	2	1		1		1				16
inflammable gas			1		2		5	2		2		1			1	2	2			1		1		1	20
harmful substance			1				5	1	1	6		2	9	4	3	2	4	4	3	1		1	1	4	52
radiation																									
other hazards, harmful substances			8		11		5	2	11	3	14	6	3	8	6	12	10	13	10	8	9	8	9	7	163
metal material			8		10		9	16	13	9	16	8	8	9	5	8	6	8	10	12	7	13	8	5	188
lumber, bamboo			3		4		1	1	1	1	1	1				4			2		2		1		22
stone, sand, substance			1							1					1	1									4
other materials			13		23		15	12	18	16	17	17	14	13	18	20	18	15	14	13	17	11	14	16	314
load			51		35		44	49	65	60	60	53	38	51	66	44	64	56	52	70	59	64	57	52	1,090
machine/equipment as load			5		2		5	2	5	4	6	2	5	3	7	4	4	2	4	2	2	4	1	2	71
natural ground, rock												1													1
standing tree												1						3						1	5

water			1		4		1	5		4		1	6	3	5	2	1	3	2	2	6	4	3	1	54
abnormal environment								4	2			1	1	1											9
high/cold temperature environment			4		2		3	6	8	9	8	6	5	8	12	7	10	7	7	14	9	16	12	16	169
other environments			7		7		5	13	10	7	9	8	12	13	12	11	8	6	12	9	2	3	17	11	182
other causal agent			12		15		11	13	19	16	11	6	15	14	18	13	13	9	16	8	14	10	155	11	399
no causal agent			25		32		32	37	41	43	44	52	42	34	34	41	45	39	49	49	50	38	52	71	850
unclassifiable					2		1	3	1		6	2		1	1	3	2		1	1	3	2		1	30
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	1,161	28,170

Workers age of fatal and non-fatal accidents in bread/cake 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	58	61	61	42	48	31	46	41	53	35	45	40	44	28	20	31	44	32	29	25	31	42	22	33	942
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	185	5,040
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	147	4,422
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	203	5,586
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	328	7,788
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	265	4,392
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	1,161	28,170

Workers' number of workplace of fatal and non-fatal accidents in bread/cake products 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	164	142	151	150	157	128	126	106	93	104	98	109	85	102	75	59	60	74	79	59	53	43	61	38	2,316
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	137	4,319
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	133	3,540
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	192	4,397
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	333	7,488
300 workers or more	182	150	183	180	207	187	184	225	291	275	239	231	241	257	250	291	272	290	303	313	305	308	418	328	6,110
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	1,161	28,170

Month of fatal and non-fatal accidents in bread/cake products 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	107	79	112	80	95	101	98	100	96	105	101	91	91	100	84	81	100	105	113	119	118	97	96	92	2,361
February	93	97	85	71	102	92	101	87	100	100	101	104	66	104	80	110	82	93	101	92	77	91	97	95	2,221
March	88	86	106	90	96	96	104	89	105	81	96	103	85	123	117	71	105	90	98	109	94	96	132	113	2,373
April	88	98	89	87	97	92	94	111	103	108	107	113	80	97	89	72	88	107	96	111	89	69	156	110	2,351
May	101	92	110	87	92	87	93	100	98	106	95	91	88	92	97	72	82	98	105	90	92	69	97	87	2,221
June	104	96	109	99	117	99	79	93	104	107	75	96	80	79	92	105	103	91	97	77	80	109	100	113	2,304
July	101	102	95	116	104	106	121	109	126	127	98	117	98	86	104	112	94	113	86	116	120	96	98	101	2,546
August	88	84	98	100	112	101	93	94	130	107	89	100	96	97	87	85	100	95	93	77	104	98	112	90	2,330

September	105	89	84	126	92	94	106	83	113	114	93	91	104	80	88	110	91	94	83	104	81	95	104	89	2,313
October	84	104	109	112	100	97	99	86	102	95	106	101	96	87	87	90	86	82	98	116	98	107	95	88	2,325
November	100	128	108	107	96	93	88	100	104	103	89	105	103	96	110	95	97	100	85	99	99	97	112	90	2,404
December	106	103	130	79	102	86	113	106	96	101	97	109	110	86	96	104	102	97	120	99	84	96	106	93	2,421
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	1,161	28,170

Prefecture of fatal and non-fatal accidents in bread/cake 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	60	76	93		52		64	56	85	80	93	98	54	52	64	56	65	60	63	58	48	67	87	61	1,492
Aomori	13	7	9		13		13	6	9	7	7	3	7	5	4	7	4	5	7	8	6	5	5	6	156
Iwate	26	16	14		12		15	20	23	13	18	16	10	14	12	16	22	14	24	15	19	12	15	17	363
Miyagi	16	12	20		12		12	20	15	16	16	15	9	20	13	14	15	10	13	13	20	24	21	23	349
Akita	7	7	8		7		7	4	7	6	7	7	5	12	4	6	7	5	4	7	5	6	5	3	136
Yamagata	11	15	11		23		19	11	9	13	8	11	11	12	9	6	4	6	10	14	8	10	11	5	237
Fukushima	19	19	11		18		11	8	14	15	13	9	13	8	16	6	8	13	11	13	12	12	18	11	278
Ibaraki	28	20	48		50		36	42	42	41	45	37	47	40	33	40	41	46	41	55	42	41	38	38	891
Tochigi	22	23	18		31		23	19	28	24	19	17	27	34	38	26	34	30	25	36	30	30	31	23	588
Gunma	15	11	21		15		14	21	11	11	20	22	18	18	25	25	24	20	26	22	22	25	27	27	440
Saitama	62	62	62		92		96	94	106	109	94	85	72	104	99	110	86	113	111	114	114	87	174	100	2,146
Chiba	38	28	32		32		37	41	47	32	40	36	34	40	44	46	39	35	39	40	35	31	60	43	849
Tokyo	40	40	54		58		55	51	39	36	44	44	45	55	48	43	34	56	46	42	40	46	54	36	1,006
Kanagawa	56	46	48		60		49	51	61	57	46	59	42	47	42	48	38	50	52	47	42	56	53	50	1,100

Niigata	49	45	52		57		42	54	56	50	35	42	33	38	42	35	29	43	54	36	30	35	42	54	953
Toyama	12	14	9		12		16	9	9	11	10	4	8	11	3	6	6	8	5	8	8	2	11	4	186
Ishikawa	14	11	8		14		17	17	12	17	10	21	16	9	12	13	15	5	10	14	17	11	8	8	279
Fukui	2	7	10		2		5	1	10	3	8	8	2	4	3	3	7	5	2	6	3	3	3	2	99
Yamanashi	16	5	11		15		13	6	15	23	8	13	36	8	35	20	15	16	25	27	17	14	15	24	377
Nagano	30	21	32		21		25	26	28	36	29	28	36	28	20	25	27	24	28	27	27	8	19	26	571
Gifu	29	25	27		20		24	31	29	39	18	31	30	27	19	22	31	21	17	34	28	27	38	36	603
Shizuoka	41	39	40		23		27	38	38	41	33	28	24	25	28	23	41	43	34	30	32	28	25	29	710
Aichi	95	83	94		103		104	91	82	80	77	96	93	98	94	94	90	91	75	106	66	93	93	92	1,990
Mie	21	34	38		25		20	25	20	21	33	25	30	27	21	30	24	24	32	28	30	16	21	25	570
Shiga	14	13	13		7		13	9	14	12	7	4	7	9	17	14	16	20	15	15	9	13	11	19	271
Kyoto	25	25	39		24		28	25	36	22	25	38	30	24	33	26	21	25	23	36	26	27	22	30	610
Osaka	58	79	75		72		57	63	63	87	72	81	65	62	45	45	68	69	68	61	71	66	60	64	1,451
Hyogo	65	65	57		57		54	42	68	60	42	53	48	53	50	60	63	63	71	51	63	54	59	51	1,249
Nara	16	14	9		6		15	6	22	11	14	15	11	11	14	13	9	7	13	14	15	10	11	18	274
Wakayama	8	3	4		9			10	3	5	4	5	4	5	3	4	7	4	4	3	3	5	5	1	99
Tottori	8	7	10		8		4	3	4	8	2	2	5	2	3	10	5	5	5	7	9	6	16	7	136
Shimane	9	5	5		4		2	5	4	7	4	4	4	4	4	5	3	2		4	2		4	3	84
Okayama	14	8	13		18		18	32	25	17	27	21	17	17	19	13	22	17	22	16	29	20	22	25	432
Hiroshima	21	24	30		24		33	24	31	23	17	31	25	24	27	20	27	27	11	20	30	27	50	24	570
Yamaguchi	15	13	16		12		11	5	16	7	11	11	7	5	8	8	11	10	6	4	7	12	2	10	207
Tokushima	6	6	3		6		4	8	6	7	3	6	7	7	6	2	2	2	3	3	3	5	4	7	106
Kagawa	10	5	7		7		6	4	6	2	6	7	6	8	7	6	4	4	10	5	9	8	7	5	139

Ehime	10	13	17		13		17	8	12	24	19	19	15	12	24	22	12	12	6	13	17	17	18	19	339
Kochi	8	14	11		17		13	11	10	10	13	12	10	6	8	4	5	7	5	5	5	6	8	3	191
Fukuoka	56	60	57		55		63	58	57	57	48	47	52	44	45	53	49	55	49	67	48	60	51	46	1,177
Saga	8	27	15		6		10	14	16	20	8	12	6	13	11	9	11	12	25	19	14	15	6	15	292
Nagasaki	21	29	16		25		21	27	16	9	22	16	15	17	18	15	20	27	15	18	18	17	13	14	409
Kumamoto	23	30	19		21		22	17	29	24	29	21	18	10	16	15	18	15	18	11	7	20	14	25	422
Oita	6	12	8		11		11	6	6	13	5	9	6	7	5	5	5	8	4	3	6	7	9	1	153
Miyazaki	11	14	9		5		5	6	7	8	5	6	5	5	10	14	8	10	6	3	6	5	3	6	157
Kagoshima	19	12	14		14		22	16	14	17	10	21	15	19	12	12	21	9	23	12	19	15	13	12	341
Okinawa	12	14	18		17		16	17	17	23	23	25	17	27	18	12	17	12	19	19	19	16	23	13	394
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	1,161	28,170

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)

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Fatal accidents in bread/cake products in Japan in 1999-2022

bread/cake products industry Code No.010104

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					1	1	1						2				1		1						7	
10-29	3	1	1	1		3	1			1					1		2		1		1		1		17	
30-49	1	2	3		1	1		1				1	2				1					1		1	15	
50-99		1		2	1	1	1					1	1		1	1					1			1	12	
100-299			1		2		1					1	1			1		1					1		9	
300 workers or more	2	2		1	2	1	3	1				1	1		1	1		1		1		2	1		6	27
total	6	6	5	4	7	7	7	2		1	2	4	5	1	3	2	5	1	3		4	2	2	8	87	

Month of fatal accidents in bread/cake products 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			1	2														2				6
February		3			1	1					1					1			1					6	14
March	1				1			1					4						2				1		10
April					1	1	1					1													4
May	2		1	2			1					1				1	1				1		1		11
June	1	1					2								1										5
July					1		1			1		1			1		1								6
August	1		2	1		2								1	1		2				1				11
September				1																					1
October	1					2																1		1	5

Fukuoka						1	1										1								3
Saga																									
Nagasaki			1																						1
Kumamoto																									
Oita																									
Miyazaki																									
Kagoshima						1																			1
Okinawa		1												1											2
total	6	6	5	4	7	7	7	2		1	2	4	5	1	3	2	5	1	3		4	2	2	8	87

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

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