

Fatal and non-fatal accidents in food products in Japan in 1999-2021

food products industry Code No.0101

Type of accidents in food 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	638	599	637	649	659	682	624	751	674	656	608	614	579	625	605	581	593	675	593	668	674	717	719	14,820	fall from height
falling to same level	1,764	1,771	1,927	1,891	1,985	2,023	2,110	2,259	2,182	2,306	2,175	2,267	2,248	2,264	2,233	2,322	2,219	2,349	2,385	2,531	2,292	2,361	2,418	50,282	falling to same level
crash	276	324	291	261	310	302	328	341	373	354	341	353	311	277	307	321	350	369	354	365	386	408	373	7,675	crash
struck by flying or falling object	400	391	421	352	336	355	363	395	389	375	320	345	333	354	340	306	292	348	325	310	306	302	295	7,953	struck by flying or falling object
collapse	94	96	112	96	105	98	103	103	112	88	105	116	94	95	103	99	95	127	105	106	98	89	93	2,332	collapse
crashed by	250	208	238	212	215	230	252	223	255	231	196	211	206	213	211	222	252	220	256	233	262	248	276	5,320	crashed by
caught in/between	2,436	2,465	2,380	2,331	2,293	2,282	2,289	2,098	2,032	2,083	1,878	1,946	1,884	1,828	1,757	1,707	1,705	1,679	1,681	1,655	1,637	1,530	1,548	45,124	caught in/between
cut	1,666	1,688	1,630	1,589	1,569	1,500	1,412	1,309	1,355	1,415	1,293	1,257	1,251	1,250	1,144	1,136	1,080	1,056	1,004	933	980	874	898	29,289	cut
injury to the sole of the foot	11	8	8	8	8	5	6	13	16	1	6	4	6	10	7	6	6	5	4	4	4	5	3	154	injury to the sole of the foot
drown	1	1	1	1	1	1	2	1	1		1	1	151				2	1		1		4	1	172	drown
contact to high/low-temperature	408	410	416	421	470	432	407	442	387	438	393	382	364	404	426	418	377	400	414	405	395	381	393	9,383	contact to high/low-temperature
contact to harmful	33	31	51	67	64	46	50	71	56	65	40	66	60	68	70	73	64	52	63	64	56	83	55	1,348	contact to harmful

substance																										substance
electric shock	4	8	9	5	4	8	4	4	7		2	1	7	2	4	1	2	7	3	7	3	1	2	95	electric shock	
explosion	4	6	6	2	2	2	5	3	1	3	1	2		4	1	2	1	1	4		2	2	1	55	explosion	
burst	4	5	2	2	4		2	2	2	6	1	1	1	3		1	1	2	1		1	1	1	43	burst	
fire	3	7	4	2	4	8	1	3	1	4	3	1	2	2	3	2	3	5		1	2	6	2	69	fire	
traffic accident (public road)	145	174	130	150	117	125	140	112	117	111	94	119	99	79	111	80	82	66	69	70	73	56	67	2,386	traffic accident (public road)	
traffic accident (others)	4	4	5	3	4		2	1	1	2	2	1	4	2	3	1	1	2		7	4		1	54	traffic accident (others)	
reaction to motion/improper motion	549	522	528	547	499	516	559	597	637	642	559	638	583	661	620	650	673	666	664	760	751	779	875	14,475	reaction to motion/improper motion	
others	48	39	43	32	39	36	30	29	34	29	20	35	78	25	26	40	27	26	34	38	27	107	866	1,708	others	
unclassifiable	12	6	7	10	9	4	11	6	11	11	12	9	6	4	8	7	6	5	4	4	10	4	3	169	unclassifiable	
total	8,750	8,763	8,846	8,631	8,697	8,655	8,700	8,763	8,643	8,820	8,050	8,369	8,267	8,170	7,979	7,975	7,831	8,061	7,963	8,162	7,963	7,958	8,890	192,906	total	

Causal agents (large) of fatal and non-fatal accidents in food 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	2,744	2,794	2,661	2,544	2,478	2,413	2,414	2,175	2,087	2,181	2,025	2,043	1,993	1,958	1,837	1,752	1,752	1,732	1,746	1,607	1,655	1,568	1,528	47,687	machine
crane, conveying machine	895	901	903	871	890	869	827	811	856	813	717	764	694	654	687	681	625	619	623	659	648	622	618	17,247	crane, conveying machine
other equipment	1,781	1,770	1,792	1,819	1,897	1,893	1,887	1,890	2,038	2,032	1,834	1,925	1,861	1,857	1,876	1,814	1,914	1,965	1,871	1,823	1,962	1,913	2,052	43,466	other

																									equipment
temporary buildings, establishments	1,835	1,870	1,966	1,974	2,072	2,146	2,206	2,371	2,245	2,378	2,220	2,303	2,191	2,253	2,144	2,291	2,196	2,342	2,318	2,509	2,261	2,309	2,385	50,785	temporary buildings, establishments
substance, material	413	366	373	359	357	358	333	391	339	323	295	290	309	343	326	328	280	298	301	293	287	267	243	7,472	substance, material
load	516	522	576	537	475	483	528	528	559	520	475	524	469	492	498	456	488	548	475	528	514	532	537	11,780	load
environment	145	168	179	150	159	159	158	185	145	166	123	147	355	220	216	221	168	199	210	245	185	197	188	4,288	environment
others	421	372	396	377	369	334	347	412	374	407	361	373	395	393	395	432	408	358	419	498	451	550	1,339	10,181	others
total	8,750	8,763	8,846	8,631	8,697	8,655	8,700	8,763	8,643	8,820	8,050	8,369	8,267	8,170	7,979	7,975	7,831	8,061	7,963	8,162	7,963	7,958	8,890	192,906	total

Causal agents (middle) of fatal and non-fatal accidents in food 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	2	2	4		3	2	1		3		3	4	1	1		1	2	1	3	4	3	2		42	engine
power transmission mechanism	95	86	82	83	66	63	80	66	69	68	66	76	50	59	52	46	73	52	63	67	52	51	62	1,527	power transmission mechanism
woodworking machine	8	17	12	9	12	10	11	7	10	12	9	5	2	9	5	2	6	6	5	9	9	10	10	195	woodworking machine
construction machine	1	2	2	4		2	4	2	3	3	4	2	3		2			1	3	1	4	1	1	45	construction machine
metal manufacturing machine	119	54	37	23	10	25	28	26	22	17	11	19	16	13	13	11	6	6	6	22	8	12	7	511	metal manufacturing machine

general machine	2,519	2,633	2,524	2,425	2,387	2,311	2,290	2,074	1,980	2,081	1,932	1,937	1,921	1,876	1,765	1,692	1,665	1,666	1,666	1,504	1,578	1,492	1,448	45,366	general machine	
mobile silviculture machine																					1			1		mobile silviculture machine
crane	50	52	53	47	46	49	46	48	46	35	41	36	38	29	25	55	29	21	25	34	26	22	30	883	crane	
conveying machine	694	671	707	685	731	688	637	638	658	649	567	596	551	549	537	533	504	517	513	544	526	527	510	13,732	conveying machine	
vehicle	151	178	143	139	113	132	144	125	152	129	109	132	105	76	125	93	92	81	85	81	96	73	78	2,632	vehicle	
pressure vessel	20	23	20	14	19	15	20	18	21	17	23	7	15	14	11	15	11	11	14	9	11	13	9	350	pressure vessel	
chemical facilities	4	4	7	5	5	2		3		6	1	1	2	2		2	2	4	2		4	2	2	60	chemical facilities	
welding equipment	2		2		2	1			1	1	2	1	1	1										14	welding equipment	
kiln, caldron	28	38	44	41	43	37	36	31	38	32	39	56	21	31	53	38	31	32	41	34	59	41	45	889	kiln, caldron	
electric equipment	13	12	14	14	9	25	11	16	14	16	8	11	19	11	16	15	16	19	14	14	17	14	16	334	electric equipment	
human power machine, tools	884	903	891	953	971	885	899	872	989	958	870	898	873	875	893	862	875	854	794	819	857	829	882	20,386	human power machine, tools	
tools	551	527	557	516	576	651	612	652	639	681	585	659	635	612	614	589	659	726	690	640	733	709	742	14,555	tools	
other equipments, facilities	279	263	257	276	272	277	309	298	336	321	306	292	295	311	289	293	320	319	316	307	281	305	356	6,878	other equipments, facilities	
temporary buildings, establishments	1,835	1,870	1,966	1,974	2,072	2,146	2,206	2,371	2,245	2,378	2,220	2,303	2,191	2,253	2,144	2,291	2,196	2,342	2,318	2,509	2,261	2,309	2,385	50,785	temporary buildings, establishments	

hazards, harmful substances	94	86	118	121	125	113	113	118	96	109	95	98	114	113	126	131	106	113	105	82	87	97	85	2,445	hazards, harmful substances
materials	319	280	255	238	232	245	220	273	243	214	200	192	195	230	200	197	174	185	196	211	200	170	158	5,027	materials
load	516	522	576	537	475	483	528	528	559	520	475	524	469	492	498	456	488	548	475	528	514	532	537	11,780	load
natural environment	145	168	179	150	159	159	158	185	145	166	123	147	355	220	216	221	168	199	210	245	185	197	188	4,288	natural environment
other causal agent	186	148	157	135	135	125	123	155	132	142	96	97	128	114	132	150	125	106	114	115	104	179	929	3,827	other causal agent
no causal agent	209	209	219	223	220	197	203	246	231	249	246	267	253	266	253	270	276	243	299	363	337	365	406	6,050	no causal agent
unclassifiable	26	15	20	19	14	12	21	11	11	16	19	9	14	13	10	12	7	9	6	20	10	6	4	304	unclassifiable
total	8,750	8,763	8,846	8,631	8,697	8,655	8,700	8,763	8,643	8,820	8,050	8,369	8,267	8,170	7,979	7,975	7,831	8,061	7,963	8,162	7,963	7,958	8,890	192,906	total

Causal agents (small) of fatal and non-fatal accidents in food 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			4		3		1		3		3	4	1	1		1	2	1	3	4	3	2		36	engine
power transmission mechanism			82		66		80	66	69	68	66	76	50	59	52	46	73	52	63	67	52	51	62	1,200	power transmission mechanism
circular sawing machine			4		7		5	5	4	6	4	2	2	5	1	2	4	2	3	3	6	6	4	75	circular sawing machine
band sawing machine			6		1		3	2	2	3	1			2	3				1	1	1	2		28	band sawing machine
wood planer machine			1						1		1	1						2		3	1	1		11	wood planer machine

hollow chisel mortiser, wood borer																								hollow chisel mortiser, wood borer	
chamfering machine, router, woodworking milling machine									1														1	chamfering machine, router, woodworking milling machine	
chain saw				1				2	2	1			2				2		2		1	5	18	chain saw	
other woodworking machines			1		3		3		1		2	2			1		2		1		1		1	18	other woodworking machines
leveling, transporting or loading machine							2	1	3	1	4	2	1					1	1		3	1		20	leveling, transporting or loading machine
excavating machine			1				1	1											2		1		1	7	excavating machine
foundation work machine																									foundation work machine
hardening machine																				1				1	hardening machine
demolition machine							1																	1	demolition machine
vehicle for high lift work															1									1	vehicle for high lift work
other construction machines			1							2			2		1									6	other construction machines
lathe			1		1		1						1							1			1	6	lathe
drill press, milling machine			1				1	1	1	2		1	1	1					1			1		11	drill press, milling machine
grinding machine,			5		3		4	2	5	3	2	10	8	8	6	4	3	3	2	13	3	5	5	94	grinding machine,



other mobile silviculture machine																									other mobile silviculture machine
crane			8		9		12	8	4	6	10	4	10	6	4	10	1	7	6	9	8	8	9	139	crane
mobile crane			2		2		1	3			1			1			1	1	3	2				17	mobile crane
derrick crane													1											1	derrick crane
elevator, lift			34		24		25	29	37	25	25	29	20	16	19	32	24	10	15	18	14	9	18	423	elevator, lift
cargo lifting appliance									1				2					1		1			1	6	cargo lifting appliance
gondola												1				2								3	gondola
lumberyard equipment, logging cableway			1																					1	lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane			8		11		8	8	4	4	5	2	5	6	2	11	3	2	1	4	4	5	2	95	other powered crane
truck			158		162		138	145	136	119	116	117	96	126	113	116	115	103	93	118	118	114	116	2,319	truck
forklift			195		194		141	156	164	152	156	150	135	139	139	133	122	152	132	146	134	155	140	2,835	forklift
railway equipment			1											2	2				1		2			8	railway equipment
conveyor			341		344		334	314	329	362	277	299	296	254	264	264	248	246	271	260	247	236	237	5,423	conveyor
loader								1		2			1	1		1	1		2	1	2	1		13	loader
straddle carrier																									straddle carrier
rough terrain hauler					1					1			1											3	rough terrain hauler
other powered conveying machines			12		30		24	22	29	13	18	30	22	27	19	19	18	16	14	19	23	21	17	393	other powered conveying machines





hauling equipment			316		326		356	370	384	404	356	368	398	383	385	397	433	453	410	441	427	437	413	7,457	hauling equipment
human power machine			3		8		8	6	12	11	7	6	9	7	11	10	9	7	11	5	6	10	5	151	human power machine
hand tool			572		632		533	492	591	542	505	523	464	484	496	453	432	392	369	368	382	315	373	8,918	hand tool
ladder			201		201		184	213	210	201	200	241	206	216	215	182	210	245	204	206	235	239	270	4,079	ladder
slinging tool			4		2		5	7	4	1	2	2	2	3	2	3	2	5	3	2		1	5	55	slinging tool
other tools			352		373		423	432	425	479	383	416	427	393	397	404	447	476	483	432	498	469	467	8,176	other tools
other equipment, facilities			257		272		309	298	336	321	306	292	295	311	289	293	320	319	316	307	281	305	356	5,783	other equipment, facilities
scaffolding			8		10		6	8	4	3	7	4	4	6	3	5	8	12	6	3	6	2	6	111	scaffolding
timbering											1		1	1			1					1		5	timbering
stairs, landing stage			280		263		271	292	292	302	277	264	260	294	272	301	271	306	283	327	347	351	351	5,604	stairs, landing stage
opening			22		14		12	18	14	21	16	10	12	22	14	18	15	21	17	15	23	22	13	319	opening
roof, beam, haze, crossbeam, principal rafter			12		15		25	19	12	16	9	14	12	20	10	10	10	5	3	10	4	7	9	222	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			371		450		419	453	436	463	443	459	416	410	413	469	442	428	423	409	422	399	395	8,120	working platform, boot board
passage			924		929		1,064	1,129	1,036	1,151	1,102	1,138	1,154	1,147	1,122	1,136	1,095	1,150	1,240	1,352	1,124	1,179	1,256	21,428	passage
building, establishment			222		224		254	294	317	273	232	256	204	203	185	211	220	261	237	224	170	169	179	4,335	building, establishment
other temporary buildings, establishments			127		167		155	158	134	149	133	158	128	150	125	141	134	159	109	169	165	179	176	2,816	other temporary buildings, establishments
explosive substance			4		3		3	2				1	1		1	2	1	1	2	1				22	explosive substance

inflammable substance			7	9	6	5	4	8	3	5	2	3	4	4	4	2	3	1	4	1	1	76	inflammable substance
inflammable gas			6	4	8	6	4	8	1	2	4	6	2	1	3	4	3		3	3	1	69	inflammable gas
harmful substance			26	34	37	42	35	43	16	31	43	41	42	36	35	29	33	33	23	27	19	625	harmful substance
radiation																							radiation
other hazards, harmful substances			75	75	59	63	53	50	75	59	64	63	77	88	63	77	64	47	57	66	64	1,239	other hazards, harmful substances
metal material			73	83	67	90	77	70	65	53	51	79	50	63	57	49	62	69	59	51	46	1,214	metal material
lumber, bamboo			21	17	13	16	15	10	8	9	12	10	12	11	5	7	7	7	13	8	8	209	lumber, bamboo
stone, sand, substance			11	6	8	9	1	6	7	3	1	3	3	6	5	3	4	5	4	2	4	91	stone, sand, substance
other materials			150	126	132	158	150	128	120	127	131	138	135	117	107	126	123	130	124	109	100	2,431	other materials
load			547	454	500	506	536	503	454	502	450	476	472	440	467	528	460	512	498	510	523	9,338	load
machine/equipment as load			29	21	28	22	23	17	21	22	19	16	26	16	21	20	15	16	16	22	14	384	machine/equipment as load
natural ground, rock			6	6	2	12	6	5	2	6	7	1	2	2	4	2	2	9	5	2	2	83	natural ground, rock
standing tree			2	2	1	2	2	3	3	5	5	2	2	5	1	4	6	2	6	1	1	55	standing tree
water			16	27	21	33	19	23	14	10	207	26	25	20	9	20	16	24	23	27	10	570	water
abnormal environment			1	2		5	3	4	3	1	3	4	7	1		1	1		1	1		38	abnormal environment
high/cold temperature environment			55	47	42	43	46	52	34	52	42	58	61	73	62	62	58	93	77	82	73	1,112	high/cold temperature environment
other environments			99	75	92	90	69	79	67	73	91	129	119	120	92	110	127	117	73	84	102	1,808	other environments
other causal agent			157	135	123	155	132	142	96	97	128	114	132	150	125	106	114	115	104	179	929	3,233	other causal agent

no causal agent			219		220		203	246	231	249	246	267	253	266	253	270	276	243	299	363	337	365	406	5,212	no causal agent
unclassifiable			20		14		21	11	11	16	19	9	14	13	10	12	7	9	6	20	10	6	4	232	unclassifiable
total			8,846		8,697		8,700	8,763	8,643	8,820	8,050	8,369	8,267	8,170	7,979	7,975	7,831	8,061	7,963	8,162	7,963	7,958	8,890	158,107	total

#### Workers age of fatal and non-fatal accidents in food 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	265	259	248	226	236	187	194	182	174	150	167	151	174	153	158	152	159	158	138	145	153	168	123	4,120	19 years old or less
20-29	1,295	1,286	1,317	1,239	1,225	1,275	1,200	1,082	1,082	1,087	995	988	1,022	1,015	918	1,001	920	911	978	921	991	971	1,368	25,087	20-29
30-39	1,213	1,220	1,243	1,277	1,353	1,315	1,274	1,381	1,411	1,331	1,307	1,367	1,264	1,316	1,268	1,134	1,130	1,094	1,012	1,052	1,039	1,043	1,153	28,197	30-39
40-49	1,975	1,874	1,851	1,786	1,783	1,710	1,684	1,640	1,665	1,692	1,511	1,622	1,652	1,675	1,730	1,735	1,669	1,664	1,658	1,646	1,582	1,520	1,643	38,967	40-49
50-59	2,774	2,891	2,991	2,874	2,862	2,917	3,003	3,096	2,872	2,866	2,441	2,466	2,380	2,304	2,096	2,125	2,050	2,153	2,082	2,071	1,940	1,989	2,160	57,403	50-59
60 years old or more	1,228	1,233	1,196	1,229	1,238	1,251	1,345	1,382	1,439	1,694	1,629	1,775	1,775	1,707	1,809	1,828	1,903	2,081	2,095	2,327	2,258	2,267	2,443	39,132	60 years old or more
total	8,750	8,763	8,846	8,631	8,697	8,655	8,700	8,763	8,643	8,820	8,050	8,369	8,267	8,170	7,979	7,975	7,831	8,061	7,963	8,162	7,963	7,958	8,890	192,906	total

#### Workers' number of workplace of fatal and non-fatal accidents in food 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	1,209	1,164	1,226	1,193	1,236	1,171	1,081	1,103	988	968	888	867	866	818	728	716	639	659	676	637	595	529	539	20,496	9 workers or less
10-29	1,969	2,110	2,142	2,103	1,989	2,023	2,041	1,917	1,766	1,790	1,671	1,614	1,627	1,525	1,450	1,436	1,371	1,348	1,303	1,339	1,273	1,279	1,388	38,474	10-29
30-49	1,512	1,510	1,467	1,374	1,411	1,401	1,397	1,403	1,389	1,391	1,250	1,256	1,273	1,245	1,146	1,147	1,167	1,105	1,128	1,118	1,066	1,046	1,079	29,281	30-49
50-99	1,586	1,555	1,554	1,520	1,478	1,545	1,491	1,596	1,507	1,504	1,391	1,562	1,470	1,520	1,510	1,386	1,437	1,486	1,433	1,557	1,512	1,584	1,614	34,798	50-99
100-299	1,791	1,747	1,693	1,732	1,782	1,782	1,894	1,912	2,066	2,201	1,937	2,065	1,996	1,981	2,036	2,063	2,062	2,198	2,162	2,277	2,276	2,217	2,670	46,540	100-299

300 workers or more	683	677	764	709	801	733	796	832	927	966	913	1,005	1,035	1,081	1,109	1,227	1,155	1,265	1,261	1,234	1,241	1,303	1,600	23,317	300 workers or more
total	8,750	8,763	8,846	8,631	8,697	8,655	8,700	8,763	8,643	8,820	8,050	8,369	8,267	8,170	7,979	7,975	7,831	8,061	7,963	8,162	7,963	7,958	8,890	192,906	total

Month of fatal and non-fatal accidents in food 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	688	639	726	704	692	735	711	743	632	701	737	630	674	703	686	635	678	707	648	757	696	676	756	15,954	January
February	757	770	663	583	728	590	660	714	670	770	642	685	583	729	589	709	608	669	637	647	605	666	671	15,345	February
March	726	688	750	720	686	765	768	718	675	672	621	736	828	646	641	613	682	656	681	698	635	615	712	15,932	March
April	706	687	755	697	721	741	725	715	733	726	711	727	605	643	640	641	620	693	625	649	632	603	733	15,728	April
May	771	719	788	738	735	713	711	738	743	794	643	653	677	698	690	637	618	655	702	653	619	570	700	15,965	May
June	743	720	787	691	766	760	689	721	745	707	624	733	688	693	642	647	696	690	682	679	651	727	693	16,174	June
July	757	767	762	770	744	748	780	750	760	812	704	723	672	650	699	708	684	658	655	700	732	689	718	16,642	July
August	699	728	691	716	698	703	682	735	753	673	655	655	668	715	643	633	630	662	658	620	681	657	897	15,852	August
September	767	782	680	778	748	748	752	732	723	759	693	696	737	687	657	724	645	666	634	657	661	639	883	16,448	September
October	729	808	764	824	770	759	787	763	778	772	702	738	710	671	686	702	674	661	683	757	723	749	673	16,883	October
November	701	762	725	766	705	711	710	739	720	732	662	713	694	659	724	650	659	689	706	680	669	676	714	16,166	November
December	706	693	755	644	704	682	725	695	711	702	656	680	731	676	682	676	637	655	652	665	659	691	740	15,817	December
total	8,750	8,763	8,846	8,631	8,697	8,655	8,700	8,763	8,643	8,820	8,050	8,369	8,267	8,170	7,979	7,975	7,831	8,061	7,963	8,162	7,963	7,958	8,890	192,906	total

Prefecture of fatal and non-fatal accidents in food 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	727	841	858		802		807	804	793	752	700	696	615	592	643	568	622	639	597	617	565	609	654	14,501	Hokkaido



Kyoto	152	152	162		146		149	157	158	152	136	179	160	154	163	132	132	143	151	153	148	150	155	3,184	Kyoto
Osaka	396	408	420		397		405	360	406	448	385	401	386	375	337	310	378	347	372	344	349	324	367	7,915	Osaka
Hyogo	359	376	345		348		349	355	325	378	310	369	333	348	327	319	321	347	333	317	344	300	335	7,138	Hyogo
Nara	65	59	59		65		95	48	73	75	73	67	56	57	53	57	61	58	65	67	66	51	63	1,333	Nara
Wakayama	90	92	78		104		73	94	104	99	88	105	82	76	90	94	83	73	85	79	66	80	86	1,821	Wakayama
Tottori	53	59	65		58		52	42	52	56	39	50	43	38	45	53	44	42	36	41	47	45	62	1,022	Tottori
Shimane	54	64	57		49		48	39	42	48	38	36	33	33	41	41	49	32	40	45	34	33	43	899	Shimane
Okayama	126	106	128		131		120	133	152	133	141	140	148	124	141	145	123	120	137	144	148	184	200	2,924	Okayama
Hiroshima	244	198	248		249		244	243	256	223	191	191	223	209	218	227	205	216	215	209	218	218	251	4,696	Hiroshima
Yamaguchi	129	126	126		120		126	112	107	96	104	93	79	107	94	93	94	73	88	83	86	103	76	2,115	Yamaguchi
Tokushima	81	77	58		52		61	69	53	65	70	53	60	51	65	51	52	52	58	54	53	61	78	1,274	Tokushima
Kagawa	148	127	106		130		150	130	118	121	124	119	112	103	108	114	119	108	98	106	105	87	132	2,465	Kagawa
Ehime	136	140	152		130		137	118	123	158	98	130	117	111	112	138	111	99	83	93	97	125	106	2,514	Ehime
Kochi	63	97	75		77		73	66	50	65	58	63	62	47	42	34	51	49	45	52	42	48	51	1,210	Kochi
Fukuoka	345	352	370		365		386	388	383	388	369	354	327	324	310	309	300	313	310	327	304	328	357	7,209	Fukuoka
Saga	94	116	109		102		110	114	127	136	81	96	118	116	132	103	85	130	152	144	145	142	126	2,478	Saga
Nagasaki	140	160	131		146		136	142	108	107	126	149	147	133	137	141	107	131	122	122	114	119	107	2,725	Nagasaki
Kumamoto	177	169	146		176		142	160	157	133	144	118	113	122	149	114	123	120	134	140	128	133	139	2,937	Kumamoto
Oita	83	84	86		81		57	76	65	72	49	61	50	57	61	52	51	55	53	58	44	45	44	1,284	Oita
Miyazaki	145	165	172		148		132	145	145	155	154	179	150	141	122	134	125	132	115	119	103	130	170	2,981	Miyazaki
Kagoshima	256	260	243		228		243	248	216	202	188	203	228	222	214	224	197	235	236	212	224	211	211	4,701	Kagoshima
Okinawa	91	83	85		81		77	67	76	75	82	92	81	114	106	86	74	111	103	87	104	111	125	1,911	Okinawa
total	8,750	8,763	8,846		8,697		8,700	8,763	8,643	8,820	8,050	8,369	8,267	8,170	7,979	7,975	7,831	8,061	7,963	8,162	7,963	7,958	8,890	175,620	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







temporary buildings, establishments	2	1	5	4	3	2	2	5	4	2	4	2	1	5	3	2	5	3	2	1		2	2	62	temporary buildings, establishments
substance, material	1	2		1				1	1						4	1	1		2				1	15	substance, material
load						1	1	2	1	1				1	1	1		2			1			12	load
environment			2	1			1	2		1	2	1	188	2	3	2	2		2	2	1	2		214	environment
others			1			1	3	1	2	3		1	2	2	1	1		1	1	1	3	1	1	26	others
total	27	32	29	28	28	29	34	38	27	26	26	22	204	19	24	26	19	20	23	11	16	13	13	734	total

Causal agents (middle) of fatal accidents in food 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 transmission mechanism		2						1	1									1							5	power transmission mechanism
woodworking machine					1																				1	woodworking machine
construction machine				1				2			1										1	1			6	construction machine
metal manufacturing machine																										metal manufacturing machine
general machine	5	6	4	3	8	6	5	5	3	3	8	4	2	2	3	6	3	2	8	2	5	3	2	98	general machine	
mobile silviculture machine																										mobile silviculture machine
crane	1	1	2	4	2		3	2	1	1	2	2	1	1			3		2					28	crane	

conveying machine	10	11	7	8	6	10	7	8	6	9	7	10	7	3	7	8	2	6	1	1	2	3	3	142	conveying machine	
vehicle	7	7	3	4	4	1	8	3	3	3	1	1	1	1	2	4		2	2	1	1	1	1	61	vehicle	
pressure vessel		1						1										1						3	pressure vessel	
chemical facilities			1																					1	chemical facilities	
welding equipment																										welding equipment
kiln, caldron					1	2												1	1						5	kiln, caldron
electric equipment																										electric equipment
human power machine, tools				1			1	1						1			1								5	human power machine, tools
tools	1	1	4		2	3	1	3	3	1		1	1					1	1	1	1		1	26	tools	
other equipments, facilities				1	1	3	2	1	2	2	1		1	1		1	2	1		2	1		2	24	other equipments, facilities	
temporary buildings, establishments	2	1	5	4	3	2	2	5	4	2	4	2	1	5	3	2	5	3	2	1		2	2	62	temporary buildings, establishments	
hazards, harmful substances	1	2		1				1							2	1	1		2				1	12	hazards, harmful substances	
materials									1						2										3	materials
load						1	1	2	1	1				1	1	1		2			1			12	load	
natural environment			2	1			1	2		1	2	1	188	2	3	2	2		2	2	1	2		214	natural environment	
other causal agent						1	2	1				1	1									1	1	8	other causal agent	
no causal agent							1		2	3				2	1	1		1	1	1	3			16	no causal agent	
unclassifiable			1										1											2	unclassifiable	
total	27	32	29	28	28	29	34	38	27	26	26	22	204	19	24	26	19	20	23	11	16	13	13	734	total	

Causal agents (small) of fatal accidents in food 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		2						1	1									1						5	power transmission mechanism
circular sawing machine					1																			1	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				1				1			1										1	1		5	leveling, transporting or loading machine

excavating machine								1														1	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																							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 hammer
shearing machine																							shearing machine
other metal manufacturing machines																							other metal manufacturing machines
centrifugal machine																							centrifugal machine
mixer, grinder	1		3		3	2		2	1		1	2		1	1						1	19	mixer, grinder
roll machine (except printingroll machine)																							roll machine (except printingroll machine)









stairs, landing stage		1	3	1				1	1						1						8	stairs, landing stage		
opening							1					1			1						1	4	opening	
roof, beam, haze, crossbeam, principal rafter								1	1							1						3	roof, beam, haze, crossbeam, principal rafter	
working platform, boot board			1	1		1					2	1		2		1	1		1			11	working platform, boot board	
passage						1			2			1			1	1					1	7	passage	
building, establishment	2		1	2	3		1	3	1		2			2	1	1	1		1	1		2	24	building, establishment
other temporary buildings, establishments							1							1			1					4	other temporary buildings, establishments	
explosive substance																							explosive substance	
inflammable substance		1																				1	inflammable substance	
inflammable gas																							inflammable gas	
harmful substance	1	1						1	1						2	1	1		1			1	9	harmful substance
radiation																							radiation	
other hazards, harmful substances				1																1		2	other hazards, harmful substances	
metal material																							metal material	
lumber, bamboo																							lumber, bamboo	
stone, sand, substance																							stone, sand, substance	
other materials								1							2							3	other materials	

load						1		1	1	1				1	1			2			1			9	load	
machine/equipment as load							1	1							1									3	machine/equipment as load	
natural ground, rock												1									1			2	natural ground, rock	
standing tree															2									2	standing tree	
water			1										188								1		2	192	water	
abnormal environment				1						1	1			1						1				5	abnormal environment	
high/cold temperature environment			1				1							1	3		1					1		8	high/cold temperature environment	
other environments								2			1						1		1					5	other environments	
other causal agent						1	2	1				1	1										1	1	8	other causal agent
no causal agent							1		2	3				2	1	1		1	1	1	3			16	no causal agent	
unclassifiable			1										1											2	unclassifiable	
total	27	32	29	28	28	29	34	38	27	26	26	22	204	19	24	26	19	20	23	11	16	13	13	734	total	

Workers age of fatal accidents in food 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		1		2		1		1					2		1	2	1		1					12	19 years old or less
20-29	2	5	5	7	3	6	7	2	5	1	3	3	11	3	1	2			1	1	1	1	1	71	20-29
30-39	4	3	3	4	5	1	2	7	2	9	3	5	27	4	4		5	5	3		2	2		100	30-39
40-49	7	7	2	4	3	5	7	7	3	5	7	4	42	2	5	8	3	4	5	1	6	1	2	140	40-49

50-59	6	8	10	5	10	10	12	16	8	5	7	6	67	6	6	4	5	5	10	3	2	2	5	218	50-59
60 years old or more	8	8	9	6	7	6	6	5	9	6	6	4	55	4	7	10	5	6	3	6	5	7	5	193	60 years old or more
total	27	32	29	28	28	29	34	38	27	26	26	22	204	19	24	26	19	20	23	11	16	13	13	734	total

Workers' number of workplace of fatal accidents in food 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	5	8	4		1	7	5	4	5	8	4	1	57	4	5	5	1	6	3	1	2	1	2	139	9 workers or less
10-29	8	7	10	5	11	11	9	9	5	7	1	5	54	2	8	6	6	1	4	4	4	3	4	184	10-29
30-49	6	6	6	6	4	2	4	7	6	6	7	4	55	5	3	6	3	3	4			3		146	30-49
50-99	2	3	2	6	4	4	5	9	8	1	2	2	17	3	3	5	3	2	3	1	2	3	2	92	50-99
100-299	3	5	7	10	6	3	7	6	3	2	9	7	17	2	3	3	4	8	8	4	5	1	4	127	100-299
300 workers or more	3	3		1	2	2	4	3		2	3	3	4	3	2	1	2		1	1	3	2	1	46	300 workers or more
total	27	32	29	28	28	29	34	38	27	26	26	22	204	19	24	26	19	20	23	11	16	13	13	734	total

Month of fatal accidents in food 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	2	5	3	1	3	4	2		5	2	3	2	3	1	2	1	3		2	2	2	1	50	January
February	1	5			3	3	2	6	5	3	3			1		1	2	3	3				3	44	February
March	3	2	2	1	4	3	4	2	7	2	2	1	189	1		3		2	4		3		1	236	March
April	1	1	1	1	1	3	2	5	1	2	3	2	1	1	2	3	1	5	1	1		1		39	April
May	6		3	4		4	4	3	4		3	2	3	2	2	2	1	2	2	1	3	3	1	55	May
June	2	3		2	1	2	2	2	1	1		1		1	4	1				1	1		1	26	June
July	1	2	4	3	5	2	4	1	3	4	5	5	2		3	1	3		5		2		2	57	July

August	3	7	3	1		3	1	7	1	3	3	3	1	4	6	5	6	2	3	2	2			66	August
September	6	4	1	6	3	2	4	3	1	1	1		3	2	2		1			1	3	1	1	46	September
October	2	1	4	3	3	3	2	1	3	1		1			1	3	1	1	2	1		3		36	October
November	1	3		4	2		5	2		1	1	2	3	3	2	1	1	1	2	1		2	1	38	November
December		2	6		5	1		4	1	3	3	2		1	1	4	2	1	1	1		1	2	41	December
total	27	32	29	28	28	29	34	38	27	26	26	22	204	19	24	26	19	20	23	11	16	13	13	734	total

Prefecture of fatal accidents in food 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	2	5	3	5	4	1	7	4	3	1	1	2		3	4	2	2	1	1	3	2	3		59	Hokkaido
Aomori						1	1			1	1		1			1					1			7	Aomori
Iwate	1	1			1		1	1	1	1		1	40				1						1	50	Iwate
Miyagi		1	2	1	1	2		2		2			136					1				2	1	151	Miyagi
Akita										1				1	1							1		4	Akita
Yamagata									1			1	1			1						1		5	Yamagata
Fukushima		1		1		1		1	1		1	1	13			2		2	1		1			26	Fukushima
Ibaraki	1	1	2	1		1	2	1			2		1			1	1			1	3			18	Ibaraki
Tochigi										1	1				1		1		1		1			6	Tochigi
Gunma			1			2	1	2	2	1	3				1	1			2					16	Gunma
Saitama	1		3	1	2	1	2		1	1	1	2	1	1								1	1	19	Saitama
Chiba		1	1	2	1	3		1	3	1				1	1		1		2			1		19	Chiba
Tokyo		1		1		1		2						1	1	1		1						9	Tokyo
Kanagawa		1	1	1	3	1		1	1			1	2			1		1	2					16	Kanagawa
Niigata	2			1	2	2	1	1	1	2	1			1	1	1	1		1					18	Niigata

Toyama									1												1			2	Toyama				
Ishikawa									1									1						2	Ishikawa				
Fukui												1	2											3	Fukui				
Yamanashi			1		2				1	1					1							1			7	Yamanashi			
Nagano		2	1	1		1		1	1			1										1				9	Nagano		
Gifu	1			1						2				1				1							2	8	Gifu		
Shizuoka	5	1	1	1		1	2	2	1		2			1	2	3	2	2	5	1	1	2	2			37	Shizuoka		
Aichi	2	1	2		4	2	1	1	1			4	1		2			2	1					1			25	Aichi	
Mie		2	1	1		1		2		3		2		1				1		1				1			16	Mie	
Shiga					1	1	2										1		1	1							7	Shiga	
Kyoto			2	1		1		3						1				1									9	Kyoto	
Osaka	1	2	1	3			1	2		2	1			1	1	1	1	1	1								19	Osaka	
Hyogo	1	1	2	2	1	1	1	4	1		3	5			2	1	1	2	1	2			1	2			34	Hyogo	
Nara																												2	Nara
Wakayama	1					1	1		1					1	1				1									7	Wakayama
Tottori							3		1															1				5	Tottori
Shimane							1				1																	2	Shimane
Okayama	2	1	1	1					1					1														8	Okayama
Hiroshima	1				1		2	2									1	1										8	Hiroshima
Yamaguchi							1							1			1	1					1				1	6	Yamaguchi
Tokushima		2		1							2	1	1												1			8	Tokushima
Kagawa	1	1	1		1				2						1											1		8	Kagawa
Ehime			1		2					2					1													6	Ehime
Kochi	2						1																			1		4	Kochi

Fukuoka		2				1	1	2	1		1			1	1	2	2						1	15	Fukuoka		
Saga	1				1			1							2								1		6	Saga	
Nagasaki		1	1		1			1				1	1												6	Nagasaki	
Kumamoto								1	1	1	3						1	1		1	1				10	Kumamoto	
Oita		1				1								2		1										5	Oita
Miyazaki	1	1	1	1			1									1										6	Miyazaki
Kagoshima		1		1		2	1		1		1	1	2			2	1	1	1		1					16	Kagoshima
Okinawa	1	1							1	1				1												5	Okinawa
total	27	32	29	28	28	29	34	38	27	26	26	22	204	19	24	26	19	20	23	11	16	13	13	734	total		

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

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