

Fatal and non-fatal accidents in all kinds of retail in Japan in 1999-2021

all kinds of retail industry Code No.080201

Type of accidents in all kinds of retail 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	404	375	402	383	390	385	356	370	324	307	253	246	280	229	202	217	199	231	175	188	183	205	213	6,517	fall from height
falling to same level	942	914	1,044	1,049	1,056	1,029	1,107	999	953	863	839	832	885	897	804	803	742	765	739	803	737	701	821	20,324	falling to same level
crash	139	152	161	159	174	160	168	153	147	115	110	122	100	111	97	95	89	99	92	109	106	93	101	2,852	crash
struck by flying or falling object	197	168	189	220	224	206	219	188	193	162	131	139	122	133	105	107	101	97	101	113	99	65	81	3,360	struck by flying or falling object
collapse	118	93	112	107	100	99	110	91	79	63	81	63	62	59	56	62	44	52	45	51	37	57	43	1,684	collapse
crashed by	129	115	130	141	163	132	147	133	141	105	103	88	107	87	93	117	91	77	66	85	80	84	74	2,488	crashed by
caught in/between	261	232	272	267	270	278	260	227	230	183	176	185	173	165	157	126	119	112	112	119	106	123	145	4,298	caught in/between
cut	578	575	560	590	627	553	534	504	498	435	350	319	267	206	245	204	225	186	159	164	159	147	154	8,239	cut
injury to the sole of the foot	8	3	7	3	3	2	4	4	1	1	1	5	1	2	2			2				2	2	53	injury to the sole of the foot
drown													2	1										3	drown
contact to high/low-temperature	84	74	95	91	100	88	80	100	74	77	54	60	54	41	56	39	52	42	44	55	43	31	41	1,475	contact to high/low-temperature
contact to harmful	8	4	13	12	1	16	5	6	5	1	6	5	7	4	1	1		1	3	2		4	5	110	contact to harmful

substance																										substance
electric shock		1	5		2	3			1	2		1		1			1		1		2	1			21	electric shock
explosion	3		2					1	1	2	1						2	1							13	explosion
burst	1		2	1	2			1		1			1							1					10	burst
fire	5		2		2	1	2		2							1									15	fire
traffic accident (public road)	89	97	87	76	92	54	54	52	49	21	39	33	35	18	25	25	19	24	18	27	18	14	14	980	traffic accident (public road)	
traffic accident (others)	1	2	2	3	4		2		1	2	1		1	1	1	1	1		1			1		25	traffic accident (others)	
reaction to motion/improper motion	518	497	545	571	591	617	592	579	620	546	426	417	413	396	365	344	349	366	330	364	334	343	370	10,493	reaction to motion/improper motion	
others	37	21	38	29	18	26	26	28	30	20	18	9	26	18	9	16	11	6	15	12	8	16	76	513	others	
unclassifiable	16	10	13	16	18	9	9	9	6	6	7	3	7	4	4	3	2	5	5	4	4		2	162	unclassifiable	
total	3,538	3,333	3,681	3,718	3,837	3,658	3,675	3,445	3,355	2,912	2,596	2,527	2,543	2,373	2,222	2,160	2,046	2,067	1,907	2,097	1,916	1,887	2,142	63,635	total	

Causal agents (large) of fatal and non-fatal accidents in all kinds of retail 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	231	195	223	184	190	177	174	166	144	144	114	110	103	56	76	40	64	50	42	50	40	29	43	2,645	machine
crane, conveying machine	238	249	201	220	219	159	173	123	142	82	91	85	87	74	68	74	59	69	49	61	55	48	49	2,675	crane, conveying machine
other equipment	938	950	1,010	1,061	1,140	1,143	1,146	1,127	1,079	928	852	844	828	748	750	686	688	637	590	654	622	658	684	19,763	other

																									equipment
temporary buildings, establishments	1,055	1,005	1,135	1,119	1,180	1,140	1,126	1,056	1,023	907	852	838	832	841	751	746	688	787	710	759	693	662	766	20,671	temporary buildings, establishments
substance, material	197	155	183	182	178	175	164	144	127	99	95	83	93	70	60	74	56	70	65	60	45	47	43	2,465	substance, material
load	457	443	513	538	507	502	479	483	476	404	315	277	282	293	248	254	247	232	221	225	208	218	221	8,043	load
environment	69	71	106	71	75	65	74	63	44	49	51	60	72	74	65	54	45	54	33	65	34	21	39	1,354	environment
others	353	265	310	343	348	297	339	283	320	299	226	230	246	217	204	232	199	168	197	223	219	204	297	6,019	others
total	3,538	3,333	3,681	3,718	3,837	3,658	3,675	3,445	3,355	2,912	2,596	2,527	2,543	2,373	2,222	2,160	2,046	2,067	1,907	2,097	1,916	1,887	2,142	63,635	total

Causal agents (middle) of fatal and non-fatal accidents in all kinds of retail 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			3	engine
power transmission mechanism		1	1			1	2	1		2		1	2	1				3	2		1		1	19	power transmission mechanism
woodworking machine	12	4	11	4	8	7	6	9	2	6	7	3	2	1	4	1	2	2	1	3		1	4	100	woodworking machine
construction machine	1	4	3	3	1	3	1	2	1	1	2	1	1	1	1		1						2	29	construction machine
metal manufacturing machine	23	7	3	8	4	7	2	2	4	3	1	1	2		1	1	1		1	1			2	74	metal manufacturing machine

general machine	195	179	205	169	177	158	163	152	137	132	104	104	96	53	70	38	59	45	38	46	38	28	34	2,420	general machine	
mobile silviculture machine																										mobile silviculture machine
crane	13	12	12	11	15	3	8	5	15	6	9	7	5	9	3	6		7	3	1	2	2	4	158	crane	
conveying machine	114	130	100	117	109	94	95	54	68	40	35	38	37	31	35	33	36	27	22	26	27	23	26	1,317	conveying machine	
vehicle	111	107	89	92	95	62	70	64	59	36	47	40	45	34	30	35	23	35	24	34	26	23	19	1,200	vehicle	
pressure vessel	2	3	2	2	2			1	2	3				1				1	1					20	pressure vessel	
chemical facilities							1							1					1					3	chemical facilities	
welding equipment																	1							1	welding equipment	
kiln, caldron	3	1	2	6	5	1	8	4	3	6	4	3	1	3	1	4	5	2	3	8	5	1	3	82	kiln, caldron	
electric equipment	5	3	3	9	6	9	5	5	6	9	2	8	7	7	7	5	7	3	7	6	11	4	4	138	electric equipment	
human power machine, tools	561	567	605	676	684	632	659	646	645	528	494	470	469	417	420	374	408	347	309	350	334	368	360	11,323	human power machine, tools	
tools	273	277	282	269	336	365	325	310	305	273	262	244	247	216	227	212	187	176	199	206	202	205	214	5,812	tools	
other equipments, facilities	94	99	116	99	107	136	148	161	118	109	90	119	104	103	95	91	80	108	70	84	70	80	103	2,384	other equipments, facilities	
temporary buildings, establishments	1,055	1,005	1,135	1,119	1,180	1,140	1,126	1,056	1,023	907	852	838	832	841	751	746	688	787	710	759	693	662	766	20,671	temporary buildings, establishments	

hazards, harmful substances	29	26	32	37	28	32	28	32	17	15	15	10	17	14	9	6	10	9	11	8	5	9	10	409	hazards, harmful substances
materials	168	129	151	145	150	143	136	112	110	84	80	73	76	56	51	68	46	61	54	52	40	38	33	2,056	materials
load	457	443	513	538	507	502	479	483	476	404	315	277	282	293	248	254	247	232	221	225	208	218	221	8,043	load
natural environment	69	71	106	71	75	65	74	63	44	49	51	60	72	74	65	54	45	54	33	65	34	21	39	1,354	natural environment
other causal agent	127	107	115	99	106	95	82	101	120	64	43	53	62	44	53	71	51	34	64	48	55	46	111	1,751	other causal agent
no causal agent	200	139	169	224	218	184	238	169	195	224	173	169	174	166	148	155	147	131	127	170	161	157	181	4,019	no causal agent
unclassifiable	26	19	26	20	24	18	19	13	5	11	10	8	10	7	3	6	1	3	6	5	3	1	5	249	unclassifiable
total	3,538	3,333	3,681	3,718	3,837	3,658	3,675	3,445	3,355	2,912	2,596	2,527	2,543	2,373	2,222	2,160	2,046	2,067	1,907	2,097	1,916	1,887	2,142	63,635	total

Causal agents (small) of fatal and non-fatal accidents in all kinds of retail 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			2	engine
power transmission mechanism			1				2	1		2		1	2	1				3	2		1		1	17	power transmission mechanism
circular sawing machine			2		5		4	5	2	5	4	2	1	1	2	1	2	1		2		1	2	42	circular sawing machine
band sawing machine			1																					1	band sawing machine
wood planer machine			1		1						1				2					1			1	7	wood planer machine

machine																								machine	
other mobile silviculture machine																								other mobile silviculture machine	
crane			1		2				1		2	1		2		1		2						12	crane
mobile crane					1		1		2		1													5	mobile crane
derrick crane																									derrick crane
elevator, lift			7		12		6	3	11	6	4	6	4	5	3	5		4	3	1	2	2	3	87	elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola			1																					1	gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane			3				1	2	1		2		1	2				1					1	14	other powered crane
truck			76		84		64	42	49	31	23	32	25	24	28	22	21	18	17	21	19	10	17	623	truck
forklift			14		17		17	10	15	3	6	3	5	4	7	10	8	6	3	3	7	10	4	152	forklift
railway equipment																									railway equipment
conveyor			6		5		4		2	2	4	1	3	1			2	2					2	34	conveyor
loader							1																	1	loader
straddle carrier																									straddle carrier
rough terrain hauler											1													1	rough terrain hauler
other powered			4		3		9	2	2	4	1	2	4	2		1	5	1	2	2	1	3	3	51	other powered

conveying machines																								conveying machines	
cars, bus, motorcycle			83		87		61	60	57	35	42	37	43	29	27	34	21	33	21	34	24	20	18	766	cars, bus, motorcycle
railway vehicle																									railway vehicle
other vehicles			6		8		9	4	2	1	5	3	2	5	3	1	2	2	3		2	3	1	62	other vehicles
boiler										1														1	boiler
pressure vessel					1			1										1						3	pressure vessel
other pressure vessels			2		1				2	2				1					1					9	other pressure vessels
chemical facilities							1							1					1					3	chemical facilities
gas welding equipment																									gas welding equipment
arc welding equipment																									arc welding equipment
other welding equipment																1								1	other welding equipment
kiln, caldron					4		8	3	2	4	4	2	1	3	1	1	2	1	2	7	5	1	3	54	kiln, caldron
industrial dryer																			1					1	industrial dryer
other kiln, caldron			2		1			1	1	2		1				3	3	1		1				16	other kiln, caldron
transmission			2				2	1	3	5	2	6	4	5	3	4	6	3	4	3	4	3	3	63	transmission
electric power facilities							1														2			3	electric power facilities
other electrical equipment			1		6		2	4	3	4		2	3	2	4	1	1		3	3	5	1	1	46	other electrical equipment
human power							2	2	1		1								1	9	10	29	53	108	human power

cranes																									cranes
human power hauling equipment			285		301		335	327	333	254	282	289	303	275	262	242	249	227	208	240	221	227	203	5,063	human power hauling equipment
human power machine			5		2		6	2	8	2	2	6	2	1	8	4		3	3	2	4		3	63	human power machine
hand tool			315		381		316	315	303	272	209	175	164	141	150	128	159	117	97	99	99	112	101	3,653	hand tool
ladder			139		134		152	129	120	110	106	99	105	99	81	90	80	89	86	82	83	102	91	1,977	ladder
slinging tool					1		1			2								1			1			6	slinging tool
other tools			143		201		172	181	185	161	156	145	142	117	146	122	107	86	113	124	118	103	123	2,645	other tools
other equipment, facilities			116		107		148	161	118	109	90	119	104	103	95	91	80	108	70	84	70	80	103	1,956	other equipment, facilities
scaffolding			2		1		2	1	3		2	1				1			1	1	2	1	1	19	scaffolding
timbering										2														2	timbering
stairs, landing stage			243		256		241	244	240	196	182	177	203	156	158	153	149	169	131	129	130	128	145	3,430	stairs, landing stage
opening			8		8		4	4	6	2	8	7	4	7	3	2	7	2	2	4	4	3	5	90	opening
roof, beam, haze, crossbeam, principal rafter			6		4		4	3	2	1	3	1	1	2			1	1	2	1	2		1	35	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			136		169		139	130	124	121	100	108	86	115	88	90	83	86	77	82	87	65	47	1,933	working platform, boot board
passage			507		511		516	474	459	427	411	403	410	430	368	384	345	424	392	430	381	364	480	8,116	passage
building, establishment			144		121		129	113	111	93	88	74	74	69	72	51	56	61	61	60	31	42	43	1,493	building, establishment
other temporary buildings, establishments			89		110		91	87	78	65	58	67	54	62	62	65	47	44	44	52	56	59	44	1,234	other temporary buildings, establishments

explosive substance																								explosive substance	
inflammable substance			5		4		4	2	3	5	2	2		2		3	4	2	2	2	2		1	45	inflammable substance
inflammable gas			5		2		1		1	2	1		1		1									14	inflammable gas
harmful substance			4		1		3	2	1	1	2	2	2	4	1					1		2	2	28	harmful substance
radiation					1			1																2	radiation
other hazards, harmful substances			18		20		20	27	12	7	10	6	14	8	7	3	6	7	9	5	3	7	7	196	other hazards, harmful substances
metal material			51		27		37	30	27	18	20	19	11	15	12	17	11	21	16	18	11	6	10	377	metal material
lumber, bamboo			18		26		30	23	16	11	15	13	8	10	7	8	3	8	7	6	3	3	4	219	lumber, bamboo
stone, sand, substance			8		6		7	6	5	9	1	1	2	1	2	1	3	1	1		1			55	stone, sand, substance
other materials			74		91		62	53	62	46	44	40	55	30	30	42	29	31	30	28	25	29	19	820	other materials
load			504		496		469	474	466	397	311	275	279	284	244	248	241	229	220	222	205	214	215	5,993	load
machine/equipment as load			9		11		10	9	10	7	4	2	3	9	4	6	6	3	1	3	3	4	6	110	machine/equipment as load
natural ground, rock			9		2		6	1	1	2	3		2	1				3				1	1	32	natural ground, rock
standing tree					2							1	1	1					1	1		1	1	9	standing tree
water			11		7		4		3	3	3	6	11	6	8	3	1	4		6	3		1	80	water
abnormal environment							2					2	1				1	1	1	1				9	abnormal environment
high/cold temperature environment			33		13		10	10	12	12	11	11	10	10	8	4	7	7	4	18	8	3	9	200	high/cold temperature environment

other environments			53		51		52	52	28	32	34	40	47	56	49	47	36	39	27	39	23	16	27	748	other environments
other causal agent			115		106		82	101	120	64	43	53	62	44	53	71	51	34	64	48	55	46	111	1,323	other causal agent
no causal agent			169		218		238	169	195	224	173	169	174	166	148	155	147	131	127	170	161	157	181	3,272	no causal agent
unclassifiable			26		24		19	13	5	11	10	8	10	7	3	6	1	3	6	5	3	1	5	166	unclassifiable
total			3,681		3,837		3,675	3,445	3,355	2,912	2,596	2,527	2,543	2,373	2,222	2,160	2,046	2,067	1,907	2,097	1,916	1,887	2,142	49,388	total

Workers age of fatal and non-fatal accidents in all kinds of retail 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	240	206	237	238	261	189	184	168	146	134	102	68	63	58	69	39	56	56	55	46	55	43	66	2,779	19 years old or less
20-29	695	610	683	711	629	603	579	522	457	340	294	286	254	254	217	240	217	218	159	175	146	173	212	8,674	20-29
30-39	494	507	514	542	561	539	539	523	479	416	355	297	309	263	252	250	201	194	197	197	127	167	180	8,103	30-39
40-49	884	778	839	818	888	812	789	694	739	584	512	506	481	467	429	421	395	388	359	371	324	281	341	13,100	40-49
50-59	1,018	1,031	1,170	1,175	1,274	1,308	1,329	1,310	1,257	1,105	940	955	930	823	754	706	711	685	616	666	632	594	641	21,630	50-59
60 years old or more	207	201	238	234	224	207	255	228	277	333	393	415	506	508	501	504	466	526	521	642	632	629	702	9,349	60 years old or more
total	3,538	3,333	3,681	3,718	3,837	3,658	3,675	3,445	3,355	2,912	2,596	2,527	2,543	2,373	2,222	2,160	2,046	2,067	1,907	2,097	1,916	1,887	2,142	63,635	total

Workers' number of workplace of fatal and non-fatal accidents in all kinds of retail 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	465	379	393	360	340	283	294	255	225	163	144	119	161	113	102	101	80	84	86	90	62	60	72	4,431	9 workers or less
10-29	588	530	560	538	481	443	417	318	312	263	223	188	214	161	179	154	152	155	141	158	169	124	150	6,618	10-29
30-49	463	385	440	392	375	313	283	271	264	230	200	180	161	141	150	123	119	114	97	105	114	90	114	5,124	30-49

Mie	84	77	85		88		93	106	77	63	48	47	69	80	46	46	55	35	20	54	40	58	56	1,327	Mie
Shiga	23	14	37		24		70	58	39	34	48	47	39	50	41	40	52	47	51	50	48	33	52	897	Shiga
Kyoto	43	65	59		61		76	75	61	52	38	51	47	44	57	47	50	39	44	26	25	18	32	1,010	Kyoto
Osaka	243	263	290		283		238	256	273	243	224	194	208	198	188	164	165	162	171	212	181	162	199	4,517	Osaka
Hyogo	159	131	166		163		174	140	119	87	97	124	115	113	101	93	86	73	76	90	91	93	111	2,402	Hyogo
Nara	63	49	50		70		57	38	45	43	71	43	37	35	35	30	41	34	23	31	28	23	26	872	Nara
Wakayama	35	39	39		28		25	21	22	19	14	16	23	24	15	15	13	9	12	25	18	18	15	445	Wakayama
Tottori	5	6	12		20		8	13	11	4	8	8	9	5	8	6	6	10	10	8	6	6	8	177	Tottori
Shimane	15	13	19		17		15	10	22	14	13	7	8	8	13	11	10	8	13	13	21	12	12	274	Shimane
Okayama	38	41	30		51		46	49	30	36	23	19	11	13	16	6	20	12	17	15	13	12	7	505	Okayama
Hiroshima	48	67	105		52		67	53	68	45	46	42	60	42	40	38	36	38	45	39	25	21	27	1,004	Hiroshima
Yamaguchi	30	35	37		23		40	24	24	29	21	38	24	11	8	10	12	10	10	14	13	15	7	435	Yamaguchi
Tokushima	31	17	41		30		41	29	35	32	27	23	12	12	18	12	11	9	10	12	14	18	14	448	Tokushima
Kagawa	22	30	37		36		36	40	46	38	46	40	30	42	33	28	37	26	32	24	20	25	28	696	Kagawa
Ehime	16	25	14		27		21	30	29	16	14	6	14	10	14	6	9	9	12	13	6	16	16	323	Ehime
Kochi	61	43	40		32		43	49	32	38	42	39	29	21	30	42	27	34	35	28	30	32	20	747	Kochi
Fukuoka	157	121	124		85		61	54	58	67	81	73	56	60	61	80	67	74	51	48	62	71	82	1,593	Fukuoka
Saga	43	30	31		27		16	26	27	33	18	22	29	26	14	20	23	19	11	22	11	13	7	468	Saga
Nagasaki	74	51	56		35		18	36	25	24	18	18	16	15	14	10	5	17	15	19	17	13	14	510	Nagasaki
Kumamoto	34	54	59		41		33	32	24	27	21	35	36	34	33	33	29	25	28	28	27	26	21	680	Kumamoto
Oita	23	13	27		30		17	26	26	38	29	14	10	7	3	7	9	13	9	2	5	5	4	317	Oita
Miyazaki	35	31	34		33		29	19	24	19	19	18	14	15	16	17	15	19	11	11	28	14	21	442	Miyazaki
Kagoshima	46	24	44		32		20	23	22	24	31	30	34	27	26	48	36	41	30	34	27	31	42	672	Kagoshima
Okinawa	7	13	5		4		10	6	19	7	7	9	14	16	14	12	10	17	22	21	23	24	24	284	Okinawa

load				1		1																	2	load
natural environment	1												7	1									9	natural environment
other causal agent	1	1	1		1	1		1	1														7	other causal agent
no causal agent						3			2			1					1						7	no causal agent
unclassifiable																								unclassifiable
total	7	10	6	5	9	7	5	2	7	3	1	2	11	1			2	1					79	total

Causal agents (small) of fatal accidents in all kinds of retail 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

other hazards, harmful substances																								other hazards, harmful substances
metal material																								metal material
lumber, bamboo																								lumber, bamboo
stone, sand, substance																								stone, sand, substance
other materials																								other materials
load			1	1																		2	load	
machine/equipment as load																								machine/equipment as load
natural ground, rock	1																					1	natural ground, rock	
standing tree																								standing tree
water												7	1										8	water
abnormal environment																								abnormal environment
high/cold temperature environment																								high/cold temperature environment
other environments																								other environments
other causal agent	1	1	1		1	1		1	1														7	other causal agent
no causal agent						3			2			1					1						7	no causal agent
unclassifiable																								unclassifiable
total	7	10	6	5	9	7	5	2	7	3	1	2	11	1			2	1					79	total

Okayama								1														1	Okayama		
Hiroshima	2	1																					3	Hiroshima	
Yamaguchi	1						1																2	Yamaguchi	
Tokushima				1				1																2	Tokushima
Kagawa																									Kagawa
Ehime				1																				1	Ehime
Kochi									1															1	Kochi
Fukuoka					3																			3	Fukuoka
Saga																									Saga
Nagasaki																									Nagasaki
Kumamoto																									Kumamoto
Oita																									Oita
Miyazaki								1																1	Miyazaki
Kagoshima																									Kagoshima
Okinawa																									Okinawa
total	7	10	6	5	9	7	5	2	7	3	1	2	11	1										79	total

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

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