

Fatal and non-fatal accidents in retail in Japan in 1999-2021

retail industry Code No.0802

Type of accidents in 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	1,391	1,388	1,444	1,525	1,545	1,504	1,547	1,500	1,497	1,502	1,454	1,388	1,530	1,374	1,423	1,552	1,482	1,572	1,512	1,680	1,732	1,698	1,788	35,028	fall from height
falling to same level	2,863	2,944	3,266	3,248	3,376	3,512	3,740	3,605	3,421	3,704	3,601	3,863	4,283	4,465	4,326	4,501	4,412	4,581	4,881	5,330	5,069	5,286	5,893	94,170	falling to same level
crash	436	481	479	459	519	501	526	488	520	512	440	522	444	475	492	539	522	579	653	666	635	657	750	12,295	crash
struck by flying or falling object	526	475	539	520	582	544	587	524	550	542	459	484	465	501	519	519	524	479	460	519	533	540	531	11,922	struck by flying or falling object
collapse	210	204	235	214	230	249	273	243	206	217	242	207	217	221	232	241	194	241	240	246	221	226	229	5,238	collapse
crashed by	292	298	351	325	342	337	358	340	391	359	315	301	342	351	303	367	353	340	359	408	396	464	449	8,141	crashed by
caught in/between	817	830	860	864	815	910	835	852	853	802	773	802	780	840	823	804	804	793	806	922	890	899	1,004	19,378	caught in/between
cut	1,169	1,220	1,122	1,245	1,334	1,284	1,301	1,251	1,233	1,227	1,091	1,093	1,108	1,051	1,108	1,054	1,092	1,069	1,014	1,013	1,075	1,107	1,132	26,393	cut
injury to the sole of the foot	25	15	19	12	9	14	14	17	8	11	6	15	8	10	13	7	9	13	18	7	5	10	12	277	injury to the sole of the foot
drown	1	2		1		1	1		2		1		64	1	2			1	4	1	3	4	1	90	drown
contact to high/low-temperature	221	227	274	288	254	281	268	300	286	319	279	307	288	307	340	341	289	314	318	380	366	332	323	6,902	contact to high/low-temperature
contact to harmful substance	22	22	21	31	12	32	23	25	26	23	24	21	24	16	20	18	18	17	18	21	25	36	43	538	contact to harmful substance
electric shock		2	7	6	5	4	1	2	6	5	1	4	5	4	3	5	5	2	4	5	2	5	1	84	electric shock
explosion	9	6	5	5	6	3	7	5	7	7	2	3	9	4	6	1	2	7	3	2	6	2	5	112	explosion

burst	13	14	13	15	11	13	13	11	14	15	9	8	6	8	7	8	5	12	5	6	7	10	6	229	burst
fire	15	11	6	10	6	11	8	14	15	7	4	6	10	7	8	6	3	8	4	6	5	1	5	176	fire
traffic accident (public road)	1,607	1,681	1,820	1,846	1,758	1,703	1,699	1,694	1,577	1,547	1,592	1,605	1,470	1,624	1,512	1,632	1,524	1,499	1,520	1,616	1,483	1,445	1,552	37,006	traffic accident (public road)
traffic accident (others)	18	15	14	11	11	5	17	24	18	18	11	8	12	16	11	12	12	13	12	14	18	14	11	315	traffic accident (others)
reaction to motion/improper motion	1,234	1,248	1,353	1,412	1,413	1,464	1,542	1,632	1,689	1,706	1,483	1,570	1,595	1,694	1,563	1,671	1,662	1,794	1,932	1,996	2,095	2,388	2,556	38,692	reaction to motion/improper motion
others	97	84	96	102	93	99	102	99	98	102	107	100	163	94	79	71	93	88	94	88	77	198	558	2,782	others
unclassifiable	41	34	44	48	29	33	33	43	36	32	20	22	26	36	18	16	25	22	24	21	23	19	11	656	unclassifiable
total	11,007	11,201	11,968	12,187	12,350	12,504	12,895	12,669	12,453	12,657	11,914	12,329	12,849	13,099	12,808	13,365	13,030	13,444	13,881	14,947	14,666	15,341	16,860	300,424	total

Causal agents (large) of fatal and non-fatal accidents in 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	666	640	656	634	643	621	626	604	603	619	557	582	572	532	557	505	534	520	475	534	531	500	542	13,253	machine
crane, conveying machine	2,653	2,773	2,852	2,887	2,808	2,701	2,762	2,633	2,566	2,553	2,399	2,436	2,359	2,459	2,332	2,449	2,376	2,294	2,282	2,440	2,268	2,177	2,445	57,904	crane, conveying machine
other equipment	2,022	2,174	2,249	2,393	2,490	2,746	2,774	2,871	2,820	2,837	2,779	2,742	2,899	2,964	3,114	3,142	3,111	3,220	3,349	3,604	3,759	3,974	4,172	68,205	other equipment
temporary buildings, establishments	3,015	3,028	3,270	3,354	3,576	3,550	3,629	3,584	3,545	3,627	3,548	3,817	4,011	3,986	3,872	4,028	4,084	4,398	4,516	4,808	4,732	4,873	5,310	90,161	temporary buildings, establishments
substance, material	568	541	568	584	536	601	583	534	501	480	404	437	423	459	418	419	372	434	383	403	390	419	417	10,874	substance, material
load	925	959	1,070	1,083	1,055	1,052	1,125	1,160	1,209	1,198	1,014	997	965	1,056	1,020	1,136	1,059	1,116	1,135	1,152	1,211	1,406	1,435	25,538	load

environment	332	334	502	334	328	383	450	403	311	401	354	407	649	617	579	675	491	597	599	776	521	538	632	11,213	environment
others	826	752	801	918	914	850	946	880	898	942	859	911	971	1,026	916	1,011	1,003	865	1,142	1,230	1,254	1,454	1,907	23,276	others
total	11,007	11,201	11,968	12,187	12,350	12,504	12,895	12,669	12,453	12,657	11,914	12,329	12,849	13,099	12,808	13,365	13,030	13,444	13,881	14,947	14,666	15,341	16,860	300,424	total

Causal agents (middle) of fatal and non-fatal accidents in 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	3	4	5	2	2	4	3	1	5		1	4	3	4		1	5	5	2		5	2	4	65	engine	
power transmission mechanism	25	22	18	15	21	17	11	13	12	15	13	9	17	18	17	9	8	20	9	9	10	7	10	325	power transmission mechanism	
woodworking machine	50	56	40	42	41	53	44	43	38	40	33	31	34	40	28	32	30	21	21	28	30	29	41	845	woodworking machine	
construction machine	36	24	39	33	30	23	28	25	27	24	30	22	26	23	24	35	31	27	22	17	19	22	34	621	construction machine	
metal manufacturing machine	67	43	50	56	44	51	39	32	33	40	28	32	24	21	26	32	21	27	27	29	24	28	24	798	metal manufacturing machine	
general machine	485	491	504	486	505	473	501	490	488	500	452	484	468	426	462	396	439	420	393	451	443	412	427	10,596	general machine	
mobile silviculture machine																			1				2	3		mobile silviculture machine
crane	65	68	76	50	74	51	63	55	68	65	60	53	45	51	44	59	44	41	47	59	56	37	60	1,291	crane	
conveying machine	617	670	617	655	610	561	585	554	558	502	400	442	477	455	384	466	454	463	417	453	463	443	488	11,734	conveying machine	
vehicle	1,971	2,035	2,159	2,182	2,124	2,089	2,114	2,024	1,940	1,986	1,939	1,941	1,837	1,953	1,904	1,924	1,878	1,790	1,818	1,928	1,749	1,697	1,897	44,879	vehicle	
pressure vessel	19	20	24	16	21	8	9	12	17	12	13	9	8	12	12	10	8	13	11	5	9	7	13	288	pressure vessel	

chemical facilities			1			3	4	1	1					1	1	2	1		2		1		1	19	chemical facilities
welding equipment	4	2	3	7	4	3	1	3	1	9	4	1	2		5	1	6	5		2	6	3	4	76	welding equipment
kiln, caldron	12	4	6	15	10	8	19	20	12	27	19	17	18	15	22	20	20	15	19	32	26	23	20	399	kiln, caldron
electric equipment	13	15	10	23	17	16	15	10	25	22	15	15	18	16	25	29	31	15	34	36	35	33	29	497	electric equipment
human power machine, tools	1,075	1,137	1,201	1,293	1,294	1,383	1,420	1,495	1,431	1,382	1,413	1,334	1,437	1,440	1,471	1,414	1,501	1,502	1,540	1,624	1,670	1,907	1,939	33,303	human power machine, tools
tools	656	734	743	781	883	981	949	954	957	1,026	962	952	1,027	1,054	1,126	1,182	1,108	1,199	1,337	1,428	1,547	1,494	1,591	24,671	tools
other equipments, facilities	243	262	261	258	261	344	357	376	376	359	353	414	389	426	452	484	436	471	406	477	465	507	575	8,952	other equipments, facilities
temporary buildings, establishments	3,015	3,028	3,270	3,354	3,576	3,550	3,629	3,584	3,545	3,627	3,548	3,817	4,011	3,986	3,872	4,028	4,084	4,398	4,516	4,808	4,732	4,873	5,310	90,161	temporary buildings, establishments
hazards, harmful substances	94	85	93	111	91	102	98	95	77	75	72	72	87	87	79	53	58	84	66	76	71	77	82	1,885	hazards, harmful substances
materials	474	456	475	473	445	499	485	439	424	405	332	365	336	372	339	366	314	350	317	327	319	342	335	8,989	materials
load	925	959	1,070	1,083	1,055	1,052	1,125	1,160	1,209	1,198	1,014	997	965	1,056	1,020	1,136	1,059	1,116	1,135	1,152	1,211	1,406	1,435	25,538	load
natural environment	332	334	502	334	328	383	450	403	311	401	354	407	649	617	579	675	491	597	599	776	521	538	632	11,213	natural environment
other causal agent	291	283	269	253	278	286	274	286	268	230	187	217	267	250	220	280	257	203	311	276	288	332	691	6,497	other causal agent
no causal agent	472	425	471	598	590	518	624	547	584	670	634	659	670	748	666	695	720	648	802	925	948	1,103	1,198	15,915	no causal agent
unclassifiable	63	44	61	67	46	46	48	47	46	42	38	35	34	28	30	36	26	14	29	29	18	19	18	864	unclassifiable
total	11,007	11,201	11,968	12,187	12,350	12,504	12,895	12,669	12,453	12,657	11,914	12,329	12,849	13,099	12,808	13,365	13,030	13,444	13,881	14,947	14,666	15,341	16,860	300,424	total

Causal agents (small) of fatal and non-fatal accidents in 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			5		2		3	1	5		1	4	3	4		1	5	5	2		5	2	4	52	engine
power transmission mechanism			18		21		11	13	12	15	13	9	17	18	17	9	8	20	9	9	10	7	10	246	power transmission mechanism
circular sawing machine			20		19		26	26	19	28	20	16	18	23	10	14	17	16	10	17	17	16	26	358	circular sawing machine
band sawing machine			3		2		2	1	3	1	1		2	1	2	1	2	1	1			3	1	27	band sawing machine
wood planer machine			3		5		6	4	4	1	2	6	4	5	8		2	1	3	3	2	1	4	64	wood planer machine
hollow chisel mortiser, wood borer			1		1		1	1		1	2	1		1			1				1		1	12	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine								3			1		1		1	1	2						1	10	chamfering machine, router, woodworking milling machine
chain saw			4		3				2	3	2	2	4	3	1	6	2	1	3	1	2	3	3	45	chain saw
other woodworking machines			9		11		9	8	10	6	5	6	5	7	6	10	4	2	4	7	8	6	5	128	other woodworking machines
leveling, transporting or loading machine			10		9		9	7	9	9	5	9	13	7	7	11	11	8	7	8	4	6	11	160	leveling, transporting or loading machine
excavating machine			17		14		10	12	12	9	17	6	12	11	11	17	16	10	8	7	10	13	19	231	excavating machine
foundation work machine			1				1	1				1							1					5	foundation work machine
hardening machine			1		1				1	1	1	1	1		1	1	1					1	2	13	hardening machine

power machines			168		171		173	176	157	137	147	126	121	132	140	126	127	124	102	132	139	124	140	2,662	power machines
felling machine																			1				1	2	felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																							1	1	skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
crane			11		20		12	11	13	11	11	8	8	6	8	16	4	6	7	11	10	6	6	185	crane
mobile crane			23		14		12	7	14	14	13	14	8	7	12	14	11	14	5	8	7	5	6	208	mobile crane
derrick crane																									derrick crane
elevator, lift			33		38		33	26	37	32	33	23	21	23	19	26	24	20	29	31	29	20	36	533	elevator, lift
cargo lifting appliance																			1		1		1	3	cargo lifting appliance
gondola			1						1											1			1	4	gondola
lumberyard equipment, logging cableway			2											2				1						5	lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane			6		2		6	11	4	7	3	8	8	13	5	3	4	1	5	8	9	6	10	119	other powered crane
truck			485		477		437	425	430	375	318	356	375	352	309	355	345	352	326	351	373	353	354	7,148	truck
forklift			88		83		94	83	87	85	50	63	66	60	52	72	65	66	46	64	59	61	91	1,335	forklift
railway equipment						1				1										1		1		4	railway equipment
conveyor			21		25		30	25	23	18	17	8	18	22	15	22	16	19	16	18	15	12	19	359	conveyor
loader			3		3		2	6		2	2		2	1	1	1	1	4	1	1	1	2		33	loader
straddle carrier							1				1					1			1	1			1	6	straddle carrier

harmful substance			7		6		9	11	7	11	9	13	13	8	10	5	8	14	3	8	10	12	4	168	harmful substance
radiation					1			1																2	radiation
other hazards, harmful substances			48		50		62	60	44	35	42	33	48	54	50	33	40	50	50	44	44	54	59	900	other hazards, harmful substances
metal material			176		129		172	140	121	127	82	114	87	114	98	120	77	113	110	100	102	112	104	2,198	metal material
lumber, bamboo			68		77		85	68	52	59	47	53	54	63	51	48	50	60	45	55	50	54	48	1,087	lumber, bamboo
stone, sand, substance			43		32		25	34	30	32	10	21	18	18	19	21	21	17	27	13	20	24	20	445	stone, sand, substance
other materials			188		207		203	197	221	187	193	177	177	177	171	177	166	160	135	159	147	152	163	3,357	other materials
load			1,008		1,011		1,070	1,103	1,163	1,133	970	959	927	998	982	1,097	1,018	1,089	1,104	1,119	1,175	1,367	1,392	20,685	load
machine/equipment as load			62		44		55	57	46	65	44	38	38	58	38	39	41	27	31	33	36	39	43	834	machine/equipment as load
natural ground, rock			40		22		32	24	19	19	16	14	17	19	17	14	19	18	18	15	22	20	10	375	natural ground, rock
standing tree			5		7		3	5	7	2	6	7	12	6	4	9	10	8	7	7	9	12	7	133	standing tree
water			20		15		20	20	24	17	15	23	143	21	24	25	12	19	15	31	24	21	18	507	water
abnormal environment			6		1		6	2		2	2	6	5	9	2	2	1	3	2	5	2		1	57	abnormal environment
high/cold temperature environment			94		33		28	44	35	53	35	52	68	67	73	57	44	51	46	116	91	80	84	1,151	high/cold temperature environment
other environments			337		250		361	308	226	308	280	305	404	495	459	568	405	498	511	602	373	405	512	7,607	other environments
other causal agent			269		278		274	286	268	230	187	217	267	250	220	280	257	203	311	276	288	332	691	5,384	other causal agent
no causal agent			471		590		624	547	584	670	634	659	670	748	666	695	720	648	802	925	948	1,103	1,198	13,902	no causal agent
unclassifiable			61		46		48	47	46	42	38	35	34	28	30	36	26	14	29	29	18	19	18	644	unclassifiable
total			11,968		12,350		12,895	12,669	12,453	12,657	11,914	12,329	12,849	13,099	12,808	13,365	13,030	13,444	13,881	14,947	14,666	15,341	16,860	253,525	total

Workers age of fatal and non-fatal accidents in retail in 1999-2021

February	1,000	998	968	974	954	1,008	1,116	1,084	968	1,266	990	1,064	1,041	1,277	994	1,464	1,011	1,135	1,134	1,245	1,195	1,151	1,355	25,392	February
March	891	1,065	1,005	1,011	1,068	1,074	1,099	1,076	1,073	1,075	1,042	1,129	1,200	1,097	1,010	1,136	1,198	1,123	1,118	1,219	1,274	1,173	1,397	25,553	March
April	952	908	966	1,004	1,027	1,035	1,058	985	1,012	1,022	982	1,012	931	1,044	1,012	993	1,070	1,043	1,104	1,112	1,103	1,204	1,270	23,849	April
May	953	929	995	1,064	1,032	1,032	1,061	1,052	1,065	1,052	946	1,018	1,011	1,064	1,017	1,033	1,044	1,120	1,083	1,148	1,185	1,245	1,322	24,471	May
June	954	907	992	991	1,024	1,062	1,071	1,059	1,108	1,035	971	1,064	1,076	1,065	1,033	1,049	1,069	1,087	1,098	1,203	1,249	1,423	1,410	25,000	June
July	964	1,003	1,026	1,087	1,070	1,086	1,080	1,128	1,134	1,066	1,068	1,045	1,096	1,133	1,111	1,085	1,139	1,135	1,211	1,311	1,307	1,434	1,583	26,302	July
August	857	838	984	1,040	1,042	1,011	981	1,067	1,115	1,030	1,054	1,096	1,112	1,062	1,046	1,080	1,090	1,098	1,127	1,169	1,299	1,273	1,581	25,052	August
September	901	912	906	963	936	1,056	995	1,013	940	987	895	964	1,041	1,020	999	1,022	1,073	1,076	1,155	1,293	1,187	1,347	1,256	23,937	September
October	876	956	1,030	1,032	981	1,035	1,081	1,016	1,056	1,006	1,005	972	992	1,025	1,121	1,126	993	1,060	1,188	1,282	1,179	1,310	1,307	24,629	October
November	811	891	883	953	1,012	914	971	995	942	938	917	891	940	1,004	1,040	999	1,026	1,061	1,052	1,133	1,159	1,228	1,245	23,005	November
December	886	870	926	989	992	973	1,265	979	973	981	936	964	1,077	1,078	1,079	1,222	1,126	1,103	1,203	1,149	1,222	1,329	1,383	24,705	December
total	11,007	11,201	11,968	12,187	12,350	12,504	12,895	12,669	12,453	12,657	11,914	12,329	12,849	13,099	12,808	13,365	13,030	13,444	13,881	14,947	14,666	15,341	16,860	300,424	total

Prefecture of fatal and non-fatal accidents in retail 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	575	639	700		677		738	716	718	716	664	723	686	714	754	777	767	786	769	847	813	912	980	15,671	Hokkaido
Aomori	140	108	143		130		137	149	157	142	138	138	133	152	144	147	110	146	173	147	151	153	170	3,008	Aomori
Iwate	106	116	138		129		128	126	98	131	126	114	196	133	160	130	118	136	148	130	148	153	150	2,814	Iwate
Miyagi	226	224	234		305		307	330	280	328	245	285	356	347	292	327	285	310	286	329	324	299	351	6,270	Miyagi
Akita	121	136	107		88		119	119	140	124	116	143	147	158	133	128	126	132	111	165	166	173	161	2,813	Akita
Yamagata	122	142	129		106		134	123	114	129	119	115	130	129	147	131	124	129	138	172	142	141	197	2,813	Yamagata
Fukushima	213	177	186		203		206	199	187	204	191	184	178	207	207	225	177	177	203	219	211	237	261	4,252	Fukushima
Ibaraki	262	275	276		308		273	300	305	276	247	227	271	283	272	305	306	318	287	310	296	342	357	6,096	Ibaraki
Tochigi	208	197	195		185		205	170	172	228	178	192	190	177	176	208	195	200	223	237	239	258	229	4,262	Tochigi
Gunma	213	162	204		198		220	214	190	185	196	198	213	199	232	239	236	270	237	254	270	284	285	4,699	Gunma
Saitama	429	459	577		633		594	664	628	672	569	616	568	610	635	691	735	710	673	766	716	790	806	13,541	Saitama
Chiba	494	483	577		642		541	619	566	575	555	513	551	591	560	592	600	621	596	664	706	712	781	12,539	Chiba

Fukuoka	551	536	565		542		642	583	599	574	580	595	594	647	603	689	684	752	709	713	720	799	912	13,589	Fukuoka
Saga	114	86	75		88		81	99	95	95	86	91	79	92	87	111	109	99	87	166	117	136	129	2,122	Saga
Nagasaki	122	125	124		154		136	134	140	129	147	154	133	141	139	152	143	164	184	169	182	211	200	3,183	Nagasaki
Kumamoto	162	206	207		189		185	198	193	183	175	197	220	191	194	200	186	218	219	207	199	220	254	4,203	Kumamoto
Oita	134	100	118		116		129	108	134	122	116	130	104	118	132	138	149	154	138	126	166	153	164	2,749	Oita
Miyazaki	113	131	119		132		127	134	135	122	124	110	123	99	112	112	127	132	133	142	171	173	163	2,734	Miyazaki
Kagoshima	119	123	122		165		156	126	128	188	140	144	154	147	167	194	164	183	183	195	207	190	220	3,415	Kagoshima
Okinawa	52	60	83		66		71	88	77	84	89	86	106	106	94	85	100	126	108	122	137	122	159	2,021	Okinawa
total	11,007	11,201	11,968		12,350		12,895	12,669	12,453	12,657	11,914	12,329	12,849	13,099	12,808	13,365	13,030	13,444	13,881	14,947	14,666	15,341	16,860	275,733	total

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

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

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

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Fatal accidents in retail in Japan in 1999-2021

retail industry Code No.0802

Type of fatal accidents in 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	4	10	7	7	3	7	8	9	5	6	10	11	11	2	9	7	7	6	9	5	5	6	7	161	fall from height
falling to same level	4	1	2	2	2	2	3	4	2		3	1	1	2	1		3	3	2	2	2	1	1	44	falling to same level
crash	1				1						1											1		4	crash
struck by flying or falling object		1	1	2		1	2	1		2						4	1	1	1			1		18	struck by flying or falling object
collapse	1		1	2			2	2	1		3	2	2		3	1		1	1		1			23	collapse

crashed by	2	1	4		2			2	2	5		1		2		1	1	1	1	2	1	3		31	crashed by
caught in/between	6	6	7	1	4	3	4	5	10	1	2	5	4	4		5	3	2	2	4	3	2	4	87	caught in/between
cut									1	1														2	cut
injury to the sole of the foot																									injury to the sole of the foot
drown		2		1		1	1		2		1		64	1	2			1	3	1	1	3		84	drown
contact to high/low-temperature						1			1		2	2		3	1		1	1	2	1	2	3	20	contact to high/low-temperature	
contact to harmful substance	1		2	1							1											1	6	contact to harmful substance	
electric shock											1					1								2	electric shock
explosion	1				1								1					1						4	explosion
burst	1					1					1			1	2		1							7	burst
fire	1	6	1		1	3	1				1		2		2			1						19	fire
traffic accident (public road)	95	112	95	65	84	69	88	67	52	57	44	52	37	53	37	41	37	38	31	33	28	30	15	1,260	traffic accident (public road)
traffic accident (others)	1	3	1	1	2		1	2			1		1											13	traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others	1	2	1	4	1	6	4	1	4	4	2	4	65	7	3	1	5	3	10	3	1	3	5	140	others
unclassifiable						1			1	2	1	1				1								7	unclassifiable
total	119	144	122	86	101	93	116	93	80	79	70	81	190	71	59	66	58	59	62	52	43	52	36	1,932	total

Causal agents (large) of fatal accidents in 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	1	1	4		1		1	1	3			2	3	1		1	1		1	1	2	2	1	27	machine
crane, conveying machine	105	123	103	67	91	74	95	74	63	62	51	53	40	56	38	47	42	43	35	37	33	33	19	1,384	crane, conveying machine
other equipment	4	5	3	5	2	3	6	5		5	5	9	4	2	5	7	6	3	7	3	1	3	1	94	other equipment
temporary buildings, establishments	4	5	6	5	4	4	4	6	6	5	6	9	9	3	6	2	3	7	4	4	3	6	5	116	temporary buildings, establishments
substance, material	3	6	3	2	2		1				2		1		1	2	1	1					1	26	substance, material
load				2		2	2	2	1		1	1			1	2		1	2					17	load
environment	1	2		1		1	3	4	2	2	1	2	130	1	5	1		1	3	4	3	5	4	176	environment

others	1	2	3	4	1	9	4	1	5	5	4	5	3	8	3	4	5	3	10	3	1	3	5	92	others
total	119	144	122	86	101	93	116	93	80	79	70	81	190	71	59	66	58	59	62	52	43	52	36	1,932	total

Causal agents (middle) of fatal accidents in 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																										engine
power transmission mechanism																										power transmission mechanism
woodworking machine									1															1	woodworking machine	
construction machine			1		1		1	1	2				2	1		1				1		2		13	construction machine	
metal manufacturing machine																										metal manufacturing machine
general machine	1	1	3									2	1				1		1		2		1	13	general machine	
mobile silviculture machine																										mobile silviculture machine
crane	3	3	1		2	2	2	2	3	3	2	2	1			2		2	1	2	1		1	35	crane	
conveying machine	25	33	25	14	21	17	23	19	17	19	12	10	7	14	8	10	10	4	10	6	6	2	4	316	conveying machine	
vehicle	77	87	77	53	68	55	70	53	43	40	37	41	32	42	30	35	32	37	24	29	26	31	14	1,033	vehicle	
pressure vessel																										pressure vessel
chemical facilities																										chemical facilities
welding equipment																										welding equipment
kiln, caldron				1																				1	kiln, caldron	
electric equipment																	1							1	electric equipment	
human power machine, tools	2	2		3	2	2	2	4		3		4		1	1		1	1	1	1	1			31	human power machine, tools	
tools		1	3			1	4	1		2	4	4	3		3	5	2	2	4	2		2	1	44	tools	
other equipments, facilities	2	2		1							1	1	1	1	1	2	2		2			1		17	other equipments, facilities	
temporary buildings, establishments	4	5	6	5	4	4	4	6	6	5	6	9	9	3	6	2	3	7	4	4	3	6	5	116	temporary buildings, establishments	
hazards, harmful substances	2	6	2	1	2						1		1				1						1	17	hazards, harmful substances	
materials	1		1	1			1				1				1	2	1							9	materials	
load				2		2	2	2	1		1	1			1	2		1	2					17	load	

natural environment	1	2		1		1	3	4	2	2	1	2	130	1	5	1		1	3	4	3	5	4	176	natural environment
other causal agent	1	1	2	2	1	4	2	1	1	1					3						1	5	25	other causal agent	
no causal agent		1	1	2		4	1		3	2	4	4	3	7	3		5	3	10	3	1	2		59	no causal agent
unclassifiable						1	1		1	2		1		1										8	unclassifiable
total	119	144	122	86	101	93	116	93	80	79	70	81	190	71	59	66	58	59	62	52	43	52	36	1,932	total

Causal agents (small) of fatal accidents in 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 milling machine	
chain saw									1																1	chain saw	
other woodworking machines																										other woodworking machines	
leveling, transporting or loading machine									1	1			2	1		1					1		1		8	leveling, transporting or loading machine	
excavating machine					1				1																	2	excavating machine
foundation work machine																											foundation work machine
hardening machine																											hardening machine

demolition machine			1																	1		2	demolition machine					
vehicle for high lift work																							vehicle for high lift work					
other construction machines							1															1	other construction machines					
lathe																							lathe					
drill press, milling machine																							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		1	mixer, grinder					
roll machine (except printingroll machine)																							roll machine (except printingroll machine)					
injection molding machine																							injection molding machine					
food manufacturing machine																						1	food manufacturing machine					
printing machine																							printing machine					
industrial robot																							industrial robot					
other general power machines	1	1	3																		1	1	1	1	1	1	11	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 machine					

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																											1	electric power facilities						
other electrical equipment																												other electrical equipment						
human power cranes					1			1																		1	1		4	human power cranes				
human power hauling equipment	1	1		2	1	2	2	3		2		4		1	1												1	1	1		23	human power hauling equipment		
human power machine		1																													1	human power machine		
hand tool	1			1						1																					3	hand tool		
ladder		1	3			1	3	1				3	3	3		3	2	2	2	4	2						1	1			35	ladder		
slinging tool										2																						2	slinging tool	
other tools							1					1	1														3				1		7	other tools
other equipment, facilities	2	2		1																							1	1	1	1	1	17	other equipment, facilities	
scaffolding								1																								1	scaffolding	
timbering																																		timbering
stairs, landing stage	1				2		1	1	1	3	2	5	2	2		1			1	2	2	1	2	1								30	stairs, landing stage	
opening	1					2		1			1																1					2	8	opening
roof, beam, haze, crossbeam, principal rafter		1	2	1			2		2				1	2	1	3	1			1													19	roof, beam, haze, crossbeam, principal rafter
working platform, boot board		1	2		1			1																								1	6	working platform, boot board
passage		1	1	1	1	1		1	1			1	1	2		2			2	3	1	1	1	2	1							24	passage	
building, establishment	2	2	1	3			1	1	2	2	2	2	3		1				2		1												26	building, establishment

Workers age of fatal accidents in 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	10	5	8	1	4	4	3	5	1	3			6	1	1	1	1		1	3				58	19 years old or less
20-29	22	29	29	16	25	9	16	16	10	10	9	12	15	8	5	6	2	4	3	3	4	4	2	259	20-29
30-39	13	28	17	21	13	14	15	7	12	10	4	7	40	8	4	7	7	7	6	1	2	3	3	249	30-39
40-49	14	19	17	12	19	12	19	14	11	5	11	10	38	13	11	5	6	12	9	7	7	4	7	282	40-49
50-59	20	27	28	20	16	27	36	20	24	17	16	20	47	16	17	15	13	14	13	13	11	14	7	451	50-59
60 years old or more	40	36	23	16	24	27	27	31	22	34	30	32	44	25	21	32	29	22	30	25	19	27	17	633	60 years old or more
total	119	144	122	86	101	93	116	93	80	79	70	81	190	71	59	66	58	59	62	52	43	52	36	1,932	total

Workers' number of workplace of fatal accidents in 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	33	46	49	26	21	22	40	30	31	26	22	23	96	17	13	25	12	15	23	14	10	21	11	626	9 workers or less
10-29	45	57	40	38	48	41	40	33	28	29	25	29	67	36	20	25	28	26	21	24	22	19	14	755	10-29
30-49	21	23	18	13	21	15	26	22	13	15	15	14	12	12	16	10	7	15	12	9	8	8	9	334	30-49
50-99	15	12	9	8	8	9	9	6	4	7	6	9	6	5	5	5	6	3	3	3	3	2	1	144	50-99
100-299	5	6	6	1	2	4	1	1	3	1	1	5	8	1	5	1	4		3	1		2	1	62	100-299
300 workers or more					1	2		1	1	1	1	1	1				1			1				11	300 workers or more
total	119	144	122	86	101	93	116	93	80	79	70	81	190	71	59	66	58	59	62	52	43	52	36	1,932	total

Month of fatal accidents in retail 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	9	16	8	7	7	9	8	8	5	4	10	12	6	7	6	13	4	8	9	5	4	6	2	173	January
February	14	13	14	9	13	7	12	9	6	7	6	6	5	7	6	6	8	2	7	9	5	8	3	182	February
March	12	11	12	10	12	7	8	6	12	5	7	8	135	9	2	5	4	2	6	2	1	4	2	282	March

April	10	8	10	7	8	11	6	9	10	4	6	5	6	3	7	1	4	5	2	7	4	3	1	137	April
May	7	8	9	3	7	5	7	5	5	4	6	1	5	4	1	1	8	4	7	5	9	4	2	117	May
June	13	16	10	8	12	4	19	9	4	8	4	6	9	9	5	5	3	4	1	3	3	6	1	162	June
July	8	12	5	12	7	5	12	8	5	7	10	14	6	3	8	5	7	4	4	3	2	5	7	159	July
August	4	7	14	3	7	8	10	9	4	9	2	7	4	5	8	8	4	6	6	2	3	3	9	142	August
September	17	11	6	8	5	10	8	9	9	7	2	9	5	5	3	9	4	5	4	6		3	3	148	September
October	6	13	15	4	6	7	7	6	8	5	8	3	1	5	3	7	5	5	7	4	3	2	2	132	October
November	10	12	9	7	9	7	5	10	7	10	4	2	2	6	4	2	3	6	3	3	8	4	1	134	November
December	9	17	10	8	8	13	14	5	5	9	5	8	6	8	6	4	4	8	6	3	1	4	3	164	December
total	119	144	122	86	101	93	116	93	80	79	70	81	190	71	59	66	58	59	62	52	43	52	36	1,932	total

Prefecture of fatal accidents in retail 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	3	9	8	5	6	5	5	6	5	5	3	5	5	5	5	7	4	3	4	6	2	2	5	113	Hokkaido
Aomori	2		3	2	2	1	1	1	1	2	1		2		1	1		2	1	1	2	1		27	Aomori
Iwate	4	2	4	1	2	1			1			2	63	2	3	4		2	1			1		93	Iwate
Miyagi	2	1	4	1	1		3	1	1	1	1	1	61	1	1				3	2			3	88	Miyagi
Akita	2	3		1	1		1	1			2	2	3			1		1			2			20	Akita
Yamagata	1	2	1				1	1		2	2		2	2	2	1			2	1				20	Yamagata
Fukushima	2	6	4	1	1	1	3	3	2	1	1	2	7	4	1	1	2	3	3	1	1	2		52	Fukushima
Ibaraki	5	3	4	5	2	2	2	7	2	1	2	4		6	7	4	4	3		2	1	2	1	69	Ibaraki
Tochigi	2	12	2		3		2	5	2	4		2		4	1	1	1	2	3	1	3	2		52	Tochigi
Gunma	4	1		2		3	3	1	1	2	5	1		3		3	1	1	1		3	2		37	Gunma
Saitama	2	5	5	7	7	9	6	4	3	4	3	6	1		3	1	2	3		2	2		1	76	Saitama
Chiba	10	7	7	1	3	4	3	3	4	4	3	6	2		1	3		2	3	1	3	2		72	Chiba
Tokyo	1	5	5	1	4	4	5	2	7	5	1	6		2	1		3		4	3	1	3	4	67	Tokyo
Kanagawa	4	8	5	4	4	3	5	2	1	2	2	2	2	1	1		2	2	2	3	1	1	1	58	Kanagawa

Niigata	4	4	3	1	4	2	3	1	3		2			2	1			2			1	1	34	Niigata	
Toyama	1	3	1		1	2		1		2	1		1	1			1	2			1	2	1	21	Toyama
Ishikawa	4	1						1	3	2	3	1		1		1	1		2					20	Ishikawa
Fukui	3	2			1		1		1	1	1		2		3						2		1	18	Fukui
Yamanashi		1		1	1		2	2			1	1	2			1	1					1		14	Yamanashi
Nagano	3	4	2	2	3	2	5	1	2	1	1		1			1	1	1	2	1		3		36	Nagano
Gifu	3	4	3	3	2	3			3	2	1	2	1	2	1	3	1	2		4	3		1	44	Gifu
Shizuoka	2	5	2	2	2	2	8	6	3	2		1		2		4	1	2	2	4	2	2		54	Shizuoka
Aichi	7	7	9	4	7	5	7	7	3	4	3	1	3	1	2	4	3	3	1	3	5	2	2	93	Aichi
Mie	2	2	5	2	6	5	2		1	2	2	2		4	2	1			1	1	1	2	1	44	Mie
Shiga	2	4	4	2	1	4	2	1	2	1	1	1	1		1	2		3	1		2		1	36	Shiga
Kyoto	2	3	2	1	1	2			1		1	3	2	1	1	2	3	1	2	1	1	1	1	32	Kyoto
Osaka	5	5	5	7	8	2	12	4	6	3	5	5	4	3	3	2	4	2	5	7		3	4	104	Osaka
Hyogo	2	6	4	2	1	5	6	7	1	6	1	4	3	2	1	2	3	4		2			2	64	Hyogo
Nara	1	1	2	2	2				3	2	2						1					1		17	Nara
Wakayama	1	1	1	1			2		2	3	2	1		2	1	1	1							19	Wakayama
Tottori	1	2	1	1	1		2	1				1	2	1	1									14	Tottori
Shimane	1					3			1	2		1		1			3		1				1	14	Shimane
Okayama	1	3	3	5	2		1	1	4	1		1	1	2	3	3	2		1		1	1		36	Okayama
Hiroshima	5	3	1	1	4	3	3		1	2	2	2		5	2		2		1		1		1	39	Hiroshima
Yamaguchi	2	2	2	1	1	4	1	7		1	4	3	2	1	1	2		2	2			1		39	Yamaguchi
Tokushima	1		1	3	1		1	4	2	1			2	1			1	1		1		1		21	Tokushima
Kagawa	1		4	2	1	2	3			1	1	3		2	1	1			2	1	1	1	1	28	Kagawa
Ehime	2	5	1	1	1	1	4	1		1	2	1	2	1	1		2	2		1			2	31	Ehime
Kochi		3	1				1		2	1		1				1		1				1		12	Kochi
Fukuoka	7	2	5	5	8	3	3	4	3	2	3	3	5	1	3	4	2	3	6	2		4		78	Fukuoka
Saga	2	1		1	1	1			1	1				1	1		2			1		2		15	Saga

Nagasaki			3	2	2		1						1		1				2			1		13	Nagasaki
Kumamoto	1	2	4	1		2	2	3	1	2	1	1	3	1	2	2	1							29	Kumamoto
Oita	6	1				3	1	3				1		2			1		1		2	1		22	Oita
Miyazaki	2	1		1	1		1	1	1		2					1	1		2				1	15	Miyazaki
Kagoshima	1	2	1	1	2	2	2				2		2			1	1	4	1			3		25	Kagoshima
Okinawa						2						2	2	1										7	Okinawa
total	119	144	122	86	101	93	116	93	80	79	70	81	190	71	59	66	58	59	62	52	43	52	36	1,932	total

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

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