

Fatal and non-fatal accidents in retail in Japan in 1999-2022

retail industry Code No.0802

Type of accidents in retail in 1999-2022

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	2022	total
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	1,786	36,814
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	6,078	100,248
crash	436	481	479	459	519	501	526	488	520	512	440	522	444	475	492	539	522	579	653	666	635	657	750	769	13,064
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	557	12,479
collapse	210	204	235	214	230	249	273	243	206	217	242	207	217	221	232	241	194	241	240	246	221	226	229	204	5,442
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	523	8,664
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	941	20,319
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	1,019	27,412
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	10	287
drown	1	2		1		1	1		2		1		64	1	2			1	4	1	3	4	1	2	92
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	325	7,227
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	23	561
electric shock		2	7	6	5	4	1	2	6	5	1	4	5	4	3	5	5	2	4	5	2	5	1	1	85
explosion	9	6	5	5	6	3	7	5	7	7	2	3	9	4	6	1	2	7	3	2	6	2	5	5	117
burst	13	14	13	15	11	13	13	11	14	15	9	8	6	8	7	8	5	12	5	6	7	10	6	6	235

fire	15	11	6	10	6	11	8	14	15	7	4	6	10	7	8	6	3	8	4	6	5	1	5	6	182
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	1,471	38,477
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	12	327
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	2,539	41,231
others	97	84	96	102	93	99	102	99	98	102	107	100	163	94	79	71	93	88	94	88	77	198	558	127	2,909
unclassifiable	41	34	44	48	29	33	33	43	36	32	20	22	26	36	18	16	25	22	24	21	23	19	11	10	666
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	16,414	316,838

Causal agents (large) of fatal and non-fatal accidents in retail in 1999-2022

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	2022	total
machine	666	640	656	634	643	621	626	604	603	619	557	582	572	532	557	505	534	520	475	534	531	500	542	492	13,745
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	2,275	60,179
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	4,188	72,393
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	5,321	95,482
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	393	11,267
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	1,485	27,023
environment	332	334	502	334	328	383	450	403	311	401	354	407	649	617	579	675	491	597	599	776	521	538	632	779	11,992
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	1,481	24,757
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	16,414	316,838

Causal agents (middle) of fatal and non-fatal accidents in retail in 1999-2022

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	2022	total
engine	3	4	5	2	2	4	3	1	5		1	4	3	4		1	5	5	2		5	2	4	2	67
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	10	335
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	24	869
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	31	652
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	23	821
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	401	10,997
mobile silviculture machine																			1				2	1	4
crane	65	68	76	50	74	51	63	55	68	65	60	53	45	51	44	59	44	41	47	59	56	37	60	54	1,345
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	467	12,201
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	1,754	46,633
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	4	292
chemical facilities			1			3	4	1	1					1	1	2	1		2		1		1	2	21
welding equipment	4	2	3	7	4	3	1	3	1	9	4	1	2		5	1	6	5		2	6	3	4	6	82
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	37	436
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	37	534

machine			3		2		2	1	3	1	1		2	1	2	1	1			3	1	1	28		
wood planer machine			3		5		6	4	4	1	2	6	4	5	8		2	1	3	3	2	1	4	1	65
hollow chisel mortiser, wood borer			1		1		1	1		1	2	1		1			1				1		1	1	13
chamfering machine, router, woodworking milling machine								3			1		1		1	1	2						1		10
chain saw			4		3				2	3	2	2	4	3	1	6	2	1	3	1	2	3	3	5	50
other woodworking machines			9		11		9	8	10	6	5	6	5	7	6	10	4	2	4	7	8	6	5	4	132
leveling, transporting or loading machine			10		9		9	7	9	9	5	9	13	7	7	11	11	8	7	8	4	6	11	14	174
excavating machine			17		14		10	12	12	9	17	6	12	11	11	17	16	10	8	7	10	13	19	11	242
foundation work machine			1				1	1				1						1							5
hardening machine			1		1				1	1	1	1	1		1	1	1					1	2	1	14
demolition machine			2		2		1					1		1	1	1	1	3	1		1			1	16
vehicle for high lift work			2		1		1	1	1	2	3				2		1	3	1	1	1		1	2	23
other construction machines			6		3		6	4	4	3	4	4		4	2	5	1	3	4	1	3	2	1	2	62
lathe			4				4		1	1		2		1		3	2		1	2	1	1	1	1	25
drill press, milling machine			2		5		6	1	1	5	2		3	1	1		2	1		1	1	1	1	1	35

other vehicles			136		133		106	86	82	80	69	78	84	100	78	42	35	36	46	24	24	26	27	30	1,322
boiler					1			1	1	4	2				1				1		1				12
pressure vessel			5		3			2	1	2	2	1		1		1		3	2	1	3	1	1		29
other pressure vessels			19		17		9	9	15	6	9	8	8	11	11	9	8	10	8	4	5	6	12	4	188
chemical facilities			1				4	1	1					1	1	2	1		2		1		1	2	18
gas welding equipment			2		2		1	2	1	4	2	1	1		2	1	2	3		1	3	1	1	3	33
arc welding equipment			1		1			1		1	2		1		2		3	1		1	2	2	3	1	22
other welding equipment					1					4					1		1	1			1			2	11
kiln, caldron			4		9		17	17	11	23	16	16	12	12	17	10	11	12	15	31	23	22	17	29	324
industrial dryer							1	1		1	1		2	1	2	2	1		3		1			5	21
other kiln, caldron			2		1		1	2	1	3	2	1	4	2	3	8	8	3	1	1	2	1	3	3	52
transmission			3		3		7	3	14	10	9	9	10	9	13	12	20	11	26	21	19	15	18	27	259
electric power facilities							2	2	1	2		2	2			3	2			2	4	1	1		24
other electrical equipment			7		14		6	5	10	10	6	4	6	7	12	14	9	4	8	13	12	17	10	10	184
human power cranes			10		4		14	12	8	4	1	2	5	4	2	5	6	2	5	14	64	135	235	370	902
human power hauling equipment			551		569		675	742	697	690	770	737	801	800	823	777	852	879	897	1,030	995	1,043	981	941	16,250
human power machine			17		6		12	7	14	9	6	12	7	12	15	12	8	11	11	13	15	10	13	13	223
hand tool			623		715		719	734	712	679	636	583	624	624	631	620	635	610	627	567	596	719	710	644	13,008
ladder			411		437		513	462	497	518	497	509	541	572	579	622	585	636	656	728	797	789	793	825	11,967

slinging tool			7		5		9	6	4	10	4	6	6	3	12	4	7	7	6	5	8	1	4	5	119
other tools			325		441		427	486	456	498	461	437	480	479	535	556	516	556	675	695	742	704	794	729	10,992
other equipment, facilities			261		261		357	376	376	359	353	414	389	426	452	484	436	471	406	477	465	507	575	575	8,420
scaffolding			11		21		15	14	16	10	8	4	7	8	8	6	9	9	9	15	14	3	9	7	203
timbering										3		1			1				1				1	1	8
stairs, landing stage			821		951		897	902	892	841	840	844	890	741	784	819	789	873	840	822	876	888	935	931	17,176
opening			30		27		17	20	25	15	34	28	24	31	30	36	36	21	32	29	41	29	39	46	590
roof, beam, haze, crossbeam, principal rafter			43		38		30	32	20	23	26	25	36	27	21	26	23	25	18	23	18	13	22	18	507
working platform, boot board			362		443		375	411	399	417	379	430	386	437	396	426	471	441	488	508	522	459	413	543	8,706
passage			1,338		1,369		1,592	1,516	1,523	1,631	1,572	1,737	1,924	2,029	1,949	1,986	1,958	2,270	2,351	2,607	2,495	2,558	3,044	2,915	40,364
building, establishment			399		403		407	399	416	391	411	432	451	422	416	380	426	408	440	475	365	482	462	452	8,437
other temporary buildings, establishments			266		324		296	290	254	296	278	316	293	291	267	349	372	351	337	329	401	441	385	408	6,544
explosive substance			1		3			1	1	1		3			2			1		1	1	1		1	17
inflammable substance			27		17		15	17	17	20	14	18	12	21	12	11	9	5	9	16	11	7	14	12	284
inflammable gas			10		14		12	5	8	8	7	5	14	4	5	4	1	14	4	7	5	3	5	4	139
harmful substance			7		6		9	11	7	11	9	13	13	8	10	5	8	14	3	8	10	12	4	5	173
radiation					1			1																	2
other hazards, harmful substances			48		50		62	60	44	35	42	33	48	54	50	33	40	50	50	44	44	54	59	40	940
metal material			176		129		172	140	121	127	82	114	87	114	98	120	77	113	110	100	102	112	104	111	2,309

lumber, bamboo			68		77		85	68	52	59	47	53	54	63	51	48	50	60	45	55	50	54	48	41	1,128
stone, sand, substance			43		32		25	34	30	32	10	21	18	18	19	21	21	17	27	13	20	24	20	16	461
other materials			188		207		203	197	221	187	193	177	177	177	171	177	166	160	135	159	147	152	163	163	3,520
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	1,447	22,132
machine/equipment as load			62		44		55	57	46	65	44	38	38	58	38	39	41	27	31	33	36	39	43	38	872
natural ground, rock			40		22		32	24	19	19	16	14	17	19	17	14	19	18	18	15	22	20	10	20	395
standing tree			5		7		3	5	7	2	6	7	12	6	4	9	10	8	7	7	9	12	7	9	142
water			20		15		20	20	24	17	15	23	143	21	24	25	12	19	15	31	24	21	18	11	518
abnormal environment			6		1		6	2		2	2	6	5	9	2	2	1	3	2	5	2		1	3	60
high/cold temperature environment			94		33		28	44	35	53	35	52	68	67	73	57	44	51	46	116	91	80	84	93	1,244
other environments			337		250		361	308	226	308	280	305	404	495	459	568	405	498	511	602	373	405	512	643	8,250
other causal agent			269		278		274	286	268	230	187	217	267	250	220	280	257	203	311	276	288	332	691	289	5,673
no causal agent			471		590		624	547	584	670	634	659	670	748	666	695	720	648	802	925	948	1,103	1,198	1,179	15,081
unclassifiable			61		46		48	47	46	42	38	35	34	28	30	36	26	14	29	29	18	19	18	13	657
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	16,414	316,838

Workers age of fatal and non-fatal accidents in retail 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	620	578	647	627	635	529	552	507	463	456	384	326	341	357	379	367	377	352	373	413	408	428	460	402	10,981
20-29	2,483	2,411	2,636	2,513	2,378	2,378	2,261	2,109	1,962	1,828	1,750	1,703	1,699	1,773	1,661	1,711	1,639	1,600	1,525	1,620	1,515	1,615	1,998	1,757	46,525

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	1,273	26,273
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	1,427	27,729
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	1,299	26,351
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	1,386	25,323
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	1,309	25,938
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	1,234	24,239
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	1,402	26,107
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	16,414	316,838

Prefecture of fatal and non-fatal accidents in retail 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	575	639	700		677		738	716	718	716	664	723	686	714	754	777	767	786	769	847	813	912	980	899	16,570
Aomori	140	108	143		130		137	149	157	142	138	138	133	152	144	147	110	146	173	147	151	153	170	204	3,212
Iwate	106	116	138		129		128	126	98	131	126	114	196	133	160	130	118	136	148	130	148	153	150	167	2,981
Miyagi	226	224	234		305		307	330	280	328	245	285	356	347	292	327	285	310	286	329	324	299	351	358	6,628
Akita	121	136	107		88		119	119	140	124	116	143	147	158	133	128	126	132	111	165	166	173	161	171	2,984
Yamagata	122	142	129		106		134	123	114	129	119	115	130	129	147	131	124	129	138	172	142	141	197	155	2,968
Fukushima	213	177	186		203		206	199	187	204	191	184	178	207	207	225	177	177	203	219	211	237	261	273	4,525
Ibaraki	262	275	276		308		273	300	305	276	247	227	271	283	272	305	306	318	287	310	296	342	357	319	6,415
Tochigi	208	197	195		185		205	170	172	228	178	192	190	177	176	208	195	200	223	237	239	258	229	248	4,510
Gunma	213	162	204		198		220	214	190	185	196	198	213	199	232	239	236	270	237	254	270	284	285	286	4,985
Saitama	429	459	577		633		594	664	628	672	569	616	568	610	635	691	735	710	673	766	716	790	806	846	14,387
Chiba	494	483	577		642		541	619	566	575	555	513	551	591	560	592	600	621	596	664	706	712	781	797	13,336
Tokyo	901	931	985		1,020		1,066	1,109	1,110	1,142	1,043	1,104	1,154	1,187	1,110	1,180	1,153	1,231	1,251	1,386	1,439	1,383	1,564	1,568	26,017
Kanagawa	839	793	807		874		874	826	803	838	791	830	862	875	821	859	848	830	839	937	917	992	1,074	1,029	19,158
Niigata	249	261	256		244		252	251	268	250	217	231	280	307	301	249	258	236	303	348	284	284	395	318	6,042

Nagasaki	122	125	124		154		136	134	140	129	147	154	133	141	139	152	143	164	184	169	182	211	200	187	3,370
Kumamoto	162	206	207		189		185	198	193	183	175	197	220	191	194	200	186	218	219	207	199	220	254	222	4,425
Oita	134	100	118		116		129	108	134	122	116	130	104	118	132	138	149	154	138	126	166	153	164	139	2,888
Miyazaki	113	131	119		132		127	134	135	122	124	110	123	99	112	112	127	132	133	142	171	173	163	163	2,897
Kagoshima	119	123	122		165		156	126	128	188	140	144	154	147	167	194	164	183	183	195	207	190	220	221	3,636
Okinawa	52	60	83		66		71	88	77	84	89	86	106	106	94	85	100	126	108	122	137	122	159	130	2,151
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	16,414	316,838

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 retail in Japan in 1999-2022

retail industry Code No.0802

Type of fatal accidents in retail in 1999-2022

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	2022	total
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	9	170
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	2	46
crash	1				1						1											1			4
struck by flying or falling object		1	1	2		1	2	1		2						4	1	1	1			1			18
collapse	1		1	2			2	2	1		3	2	2		3	1		1	1		1				23
crashed by	2	1	4		2			2	2	5		1		2		1	1	1	1	2	1	3			31

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
cut									1	1															2
injury to the sole of the foot																									
drown		2		1		1	1		2		1		64	1	2			1	3	1	1	3		1	85
contact to high/low-temperature							1			1		2	2		3	1		1	1	2	1	2	3	1	21
contact to harmful substance	1		2	1							1												1		6
electric shock											1						1								2
explosion	1				1								1						1						4
burst	1						1					1			1	2		1							7
fire	1	6	1		1	3	1				1		2			2			1						19
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	27	1,287
traffic accident (others)	1	3	1	1	2		1	2			1		1												13
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	2	142
unclassifiable						1			1	2	1	1				1									7
total	119	144	122	86	101	93	116	93	80	79	70	81	190	71	59	66	58	59	62	52	43	52	36	42	1,974

Causal agents (large) of fatal accidents in retail in 1999-2022

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	2022	total
machine	1	1	4		1		1	1	3			2	3	1		1	1		1	1	2	2	1	1	28
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	27	1,411
other equipment	4	5	3	5	2	3	6	5		5	5	9	4	2	5	7	6	3	7	3	1	3	1	2	96
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	7	123
substance, material	3	6	3	2	2		1				2		1		1	2	1	1					1		26
load				2		2	2	2	1		1	1			1	2		1	2						17

environment	1	2		1		1	3	4	2	2	1	2	130	1	5	1		1	3	4	3	5	4	2	178
others	1	2	3	4	1	9	4	1	5	5	4	5	3	8	3	4	5	3	10	3	1	3	5	3	95
total	119	144	122	86	101	93	116	93	80	79	70	81	190	71	59	66	58	59	62	52	43	52	36	42	1,974

Causal agents (middle) of fatal accidents in retail in 1999-2022

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	2022	total
engine																									
power transmission mechanism																									
woodworking machine									1																1
construction machine			1		1		1	1	2				2	1		1				1		2		1	14
metal manufacturing machine																									
general machine	1	1	3									2	1				1		1		2		1		13
mobile silviculture machine																									
crane	3	3	1		2	2	2	2	3	3	2	2	1			2		2	1	2	1		1	1	36
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	4	320
vehicle	77	87	77	53	68	55	70	53	43	40	37	41	32	42	30	35	32	37	24	29	26	31	14	22	1,055
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron				1																					1
electric equipment																	1								1
human power machine, tools	2	2		3	2	2	2	4		3		4		1	1		1	1	1	1	1			2	33
tools		1	3			1	4	1		2	4	4	3		3	5	2	2	4	2		2	1		44
other equipments, facilities	2	2		1							1	1	1	1	1	2	2		2			1			17
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	7	123
hazards, harmful substances	2	6	2	1	2						1		1					1					1		17

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	33	46	49	26	21	22	40	30	31	26	22	23	96	17	13	25	12	15	23	14	10	21	11	10	636
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	22	777
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	8	342
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	1	145
100-299	5	6	6	1	2	4	1	1	3	1	1	5	8	1	5	1	4		3	1		2	1		62
300 workers or more					1	2		1	1	1	1	1	1			1			1					1	12
total	119	144	122	86	101	93	116	93	80	79	70	81	190	71	59	66	58	59	62	52	43	52	36	42	1,974

Month of fatal accidents in retail 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	9	16	8	7	7	9	8	8	5	4	10	12	6	7	6	13	4	8	9	5	4	6	2	6	179
February	14	13	14	9	13	7	12	9	6	7	6	6	5	7	6	6	8	2	7	9	5	8	3	4	186
March	12	11	12	10	12	7	8	6	12	5	7	8	135	9	2	5	4	2	6	2	1	4	2	7	289
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
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
June	13	16	10	8	12	4	19	9	4	8	4	6	9	9	5	5	3	4	1	3	3	6	1	2	164
July	8	12	5	12	7	5	12	8	5	7	10	14	6	3	8	5	7	4	4	3	2	5	7	4	163
August	4	7	14	3	7	8	10	9	4	9	2	7	4	5	8	8	4	6	6	2	3	3	9	3	145
September	17	11	6	8	5	10	8	9	9	7	2	9	5	5	3	9	4	5	4	6		3	3	4	152
October	6	13	15	4	6	7	7	6	8	5	8	3	1	5	3	7	5	5	7	4	3	2	2	1	133
November	10	12	9	7	9	7	5	10	7	10	4	2	2	6	4	2	3	6	3	3	8	4	1	5	139
December	9	17	10	8	8	13	14	5	5	9	5	8	6	8	6	4	4	8	6	3	1	4	3	6	170
total	119	144	122	86	101	93	116	93	80	79	70	81	190	71	59	66	58	59	62	52	43	52	36	42	1,974

Prefecture of fatal accidents in retail 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	3	9	8	5	6	5	5	6	5	5	3	5	5	5	5	7	4	3	4	6	2	2	5	3	116
Aomori	2		3	2	2	1	1	1	1	2	1		2		1	1		2	1	1	2	1		3	30
Iwate	4	2	4	1	2	1			1			2	63	2	3	4		2	1			1		4	97
Miyagi	2	1	4	1	1		3	1	1	1	1	1	61	1	1				3	2			3		88
Akita	2	3		1	1		1	1			2	2	3			1		1			2			1	21
Yamagata	1	2	1				1	1		2	2		2	2	2	1			2	1					20
Fukushima	2	6	4	1	1	1	3	3	2	1	1	2	7	4	1	1	2	3	3	1	1	2		2	54
Ibaraki	5	3	4	5	2	2	2	7	2	1	2	4		6	7	4	4	3		2	1	2	1	1	70
Tochigi	2	12	2		3		2	5	2	4		2		4	1	1	1	2	3	1	3	2		1	53
Gunma	4	1		2		3	3	1	1	2	5	1		3		3	1	1	1		3	2			37
Saitama	2	5	5	7	7	9	6	4	3	4	3	6	1		3	1	2	3		2	2		1	1	77
Chiba	10	7	7	1	3	4	3	3	4	4	3	6	2		1	3		2	3	1	3	2		2	74
Tokyo	1	5	5	1	4	4	5	2	7	5	1	6		2	1		3		4	3	1	3	4	1	68
Kanagawa	4	8	5	4	4	3	5	2	1	2	2	2	2	1	1		2	2	2	3	1	1	1	2	60
Niigata	4	4	3	1	4	2	3	1	3		2			2	1			2				1	1		34
Toyama	1	3	1		1	2		1		2	1		1	1			1	2			1	2	1	1	22
Ishikawa	4	1						1	3	2	3	1		1		1	1		2						20
Fukui	3	2			1		1		1	1	1		2		3						2		1		18
Yamanashi		1		1	1		2	2			1	1	2			1	1					1			14
Nagano	3	4	2	2	3	2	5	1	2	1	1		1			1	1	1	2	1		3		1	37
Gifu	3	4	3	3	2	3			3	2	1	2	1	2	1	3	1	2		4	3		1	1	45
Shizuoka	2	5	2	2	2	2	8	6	3	2		1		2		4	1	2	2	4	2	2			54
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
Mie	2	2	5	2	6	5	2		1	2	2	2		4	2	1			1	1	1	2	1		44
Shiga	2	4	4	2	1	4	2	1	2	1	1	1	1		1	2		3	1		2		1	1	37

Kyoto	2	3	2	1	1	2			1		1	3	2	1	1	2	3	1	2	1	1	1	1	1	1	33
Osaka	5	5	5	7	8	2	12	4	6	3	5	5	4	3	3	2	4	2	5	7		3	4	4	4	108
Hyogo	2	6	4	2	1	5	6	7	1	6	1	4	3	2	1	2	3	4		2			2	3	67	
Nara	1	1	2	2	2				3	2	2					1					1				17	
Wakayama	1	1	1	1			2		2	3	2	1		2	1	1	1								19	
Tottori	1	2	1	1	1		2	1				1	2	1	1										14	
Shimane	1					3			1	2		1		1			3		1				1	1	15	
Okayama	1	3	3	5	2		1	1	4	1		1	1	2	3	3	2		1		1	1			36	
Hiroshima	5	3	1	1	4	3	3		1	2	2	2		5	2		2		1		1		1	1	40	
Yamaguchi	2	2	2	1	1	4	1	7		1	4	3	2	1	1	2		2	2			1			39	
Tokushima	1		1	3	1		1	4	2	1			2	1			1	1		1		1			21	
Kagawa	1		4	2	1	2	3			1	1	3		2	1	1			2	1	1	1	1	1	28	
Ehime	2	5	1	1	1	1	4	1		1	2	1	2	1	1		2	2		1			2		31	
Kochi		3	1				1		2	1		1				1		1				1			12	
Fukuoka	7	2	5	5	8	3	3	4	3	2	3	3	5	1	3	4	2	3	6	2		4		4	82	
Saga	2	1		1	1	1			1	1				1	1		2			1		2			15	
Nagasaki			3	2	2		1						1		1			2			1				13	
Kumamoto	1	2	4	1		2	2	3	1	2	1	1	3	1	2	2	1							2	31	
Oita	6	1				3	1	3				1		2			1		1		2	1			22	
Miyazaki	2	1		1	1		1	1	1		2					1	1		2				1		15	
Kagoshima	1	2	1	1	2	2	2				2		2			1	1	4	1			3			25	
Okinawa						2						2	2	1										1	8	
total	119	144	122	86	101	93	116	93	80	79	70	81	190	71	59	66	58	59	62	52	43	52	36	42	1,974	

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