

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

commerce industry Code No.08

Type of accidents in commerce 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	2,232	2,182	2,264	2,331	2,396	2,338	2,325	2,334	2,344	2,342	2,182	2,127	2,299	2,172	2,166	2,348	2,287	2,377	2,354	2,569	2,672	2,578	2,703	2,717	56,639
falling to same level	3,636	3,645	4,082	4,002	4,171	4,242	4,541	4,472	4,232	4,578	4,378	4,689	5,181	5,405	5,250	5,474	5,298	5,536	5,899	6,523	6,201	6,456	7,176	7,541	122,608
crash	690	731	713	658	744	718	725	732	773	749	634	742	653	694	710	744	779	834	897	927	939	931	1,047	1,104	18,868
struck by flying or falling object	861	807	850	793	881	830	876	845	793	824	684	706	685	747	746	760	734	760	709	789	785	799	805	811	18,880
collapse	326	317	358	328	355	365	373	368	314	316	334	301	295	310	321	332	284	326	323	353	316	318	331	293	7,857
crashed by	504	502	518	507	547	542	558	531	593	589	512	462	526	537	521	572	566	540	583	638	652	694	699	764	13,657
caught in/between	1,429	1,395	1,387	1,446	1,416	1,417	1,407	1,418	1,405	1,309	1,250	1,309	1,248	1,357	1,293	1,278	1,292	1,300	1,352	1,405	1,413	1,435	1,533	1,467	32,961
cut	1,471	1,493	1,388	1,536	1,579	1,557	1,570	1,501	1,487	1,454	1,318	1,314	1,357	1,277	1,320	1,284	1,311	1,286	1,221	1,260	1,282	1,324	1,374	1,240	33,204
injury to the sole of the foot	33	27	34	22	28	24	27	26	16	17	15	17	15	20	23	14	17	19	21	13	9	18	15	17	487
drown	1	3	1	2		1	1	1	2		2		115	2	2	1		2	4	2	5	4	2	2	155
contact to high/low-temperature	257	282	318	337	292	330	315	350	334	365	309	366	330	353	391	386	336	358	364	461	446	392	375	388	8,435
contact to harmful substance	38	32	33	43	22	40	40	36	39	35	34	30	39	25	28	37	28	33	33	35	39	53	55	36	863
electric shock	1	4	10	12	7	6	2	3	11	8	2	6	6	6	5	8	6	4	6	8	5	9	5	2	142
explosion	15	8	7	9	7	6	10	6	11	11	5	4	9	8	7	2	4	8	4	3	6	4	9	13	176
burst	13	16	17	18	12	15	17	13	14	18	11	9	6	12	8	10	8	13	8	11	8	12	6	10	285

fire	18	11	7	16	10	16	10	17	16	8	6	9	17	10	11	9	4	11	4	7	7	1	9	7	241
traffic accident (public road)	1,948	1,977	2,129	2,136	2,083	2,016	2,018	1,999	1,840	1,817	1,882	1,878	1,771	1,886	1,811	1,899	1,806	1,768	1,792	1,897	1,726	1,672	1,773	1,703	45,227
traffic accident (others)	22	19	15	13	16	8	21	27	24	20	13	10	15	19	14	14	14	15	16	20	20	18	13	15	401
reaction to motion/improper motion	1,761	1,702	1,852	1,916	1,884	1,920	2,013	2,125	2,231	2,194	1,947	2,073	2,090	2,217	2,079	2,208	2,214	2,355	2,531	2,672	2,756	3,145	3,336	3,375	54,596
others	126	108	121	123	125	135	127	132	127	122	139	128	218	119	104	106	128	116	120	126	117	283	1,127	183	4,260
unclassifiable	50	40	60	62	46	48	46	51	50	47	31	31	32	42	26	19	34	32	29	25	30	23	15	14	883
total	15,432	15,301	16,164	16,310	16,621	16,574	17,022	16,987	16,656	16,823	15,688	16,211	16,907	17,218	16,836	17,505	17,150	17,693	18,270	19,744	19,434	20,169	22,408	21,702	420,825

Causal agents (large) of fatal and non-fatal accidents in commerce 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	1,002	935	937	945	972	923	944	893	864	897	806	826	834	796	814	712	776	785	739	801	762	775	847	742	20,327
crane, conveying machine	3,905	3,933	4,026	4,004	4,043	3,812	3,922	3,793	3,715	3,646	3,416	3,441	3,361	3,472	3,382	3,469	3,382	3,340	3,359	3,507	3,382	3,225	3,479	3,372	86,386
other equipment	2,705	2,844	2,921	3,092	3,155	3,422	3,450	3,673	3,585	3,631	3,467	3,471	3,655	3,745	3,869	3,888	3,905	4,045	4,213	4,561	4,719	4,960	5,210	5,257	91,443
temporary buildings, establishments	3,938	3,904	4,159	4,243	4,538	4,445	4,555	4,557	4,516	4,617	4,410	4,763	5,028	4,982	4,834	5,069	5,112	5,488	5,626	6,084	6,006	6,123	6,617	6,740	120,354
substance, material	952	879	882	890	826	923	852	834	788	735	628	641	648	705	653	666	610	684	637	649	604	635	669	637	17,627
load	1,382	1,418	1,574	1,504	1,479	1,459	1,531	1,606	1,650	1,642	1,375	1,375	1,297	1,463	1,398	1,566	1,454	1,497	1,498	1,591	1,680	1,890	1,938	2,054	37,321
environment	423	399	616	407	408	462	544	519	379	478	435	500	843	738	719	836	593	716	726	967	660	653	791	975	14,787
others	1,125	989	1,049	1,225	1,200	1,128	1,224	1,112	1,159	1,177	1,151	1,194	1,241	1,317	1,167	1,299	1,318	1,138	1,472	1,584	1,621	1,908	2,857	1,925	32,580
total	15,432	15,301	16,164	16,310	16,621	16,574	17,022	16,987	16,656	16,823	15,688	16,211	16,907	17,218	16,836	17,505	17,150	17,693	18,270	19,744	19,434	20,169	22,408	21,702	420,825

Causal agents (middle) of fatal and non-fatal accidents in commerce 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	5	8	7	3	5	6	7	1	6	1	1	5	3	6	1	1	5	8	3	4	6	4	6	2	104
power transmission mechanism	38	30	26	26	36	24	23	20	22	27	19	16	27	23	32	20	19	27	20	20	15	16	18	16	560
woodworking machine	89	98	70	81	76	81	86	74	65	68	62	52	65	68	55	57	57	46	46	59	44	58	69	43	1,569
construction machine	92	75	83	79	79	74	74	65	70	81	69	60	73	58	74	70	85	76	57	62	72	73	83	88	1,772
metal manufacturing machine	123	77	91	96	96	96	70	87	76	77	75	66	56	75	56	62	48	67	71	77	63	78	73	65	1,821
general machine	655	647	660	660	680	642	684	646	625	643	580	627	610	566	596	502	562	560	541	578	558	546	595	525	14,488
mobile silviculture machine																		1	1	1	4		3	3	13
crane	183	196	206	166	211	158	156	163	165	164	148	134	112	126	124	150	119	109	114	153	136	121	137	136	3,587
conveying machine	1,429	1,443	1,376	1,395	1,413	1,271	1,335	1,319	1,328	1,223	1,064	1,077	1,104	1,134	1,071	1,131	1,121	1,183	1,153	1,149	1,240	1,193	1,219	1,238	29,609
vehicle	2,293	2,294	2,444	2,443	2,419	2,383	2,431	2,311	2,222	2,259	2,204	2,230	2,145	2,212	2,187	2,188	2,142	2,048	2,092	2,205	2,006	1,911	2,123	1,998	53,190
pressure vessel	26	24	31	20	25	9	14	16	21	16	17	11	13	18	13	15	10	15	13	8	11	7	22	7	382
chemical facilities	1	1	1			3	5	1	1					1	1	2	1	1	2		1	1	2	3	28
welding equipment	7	6	5	11	10	7	4	5	3	14	8	9	5	3	8	3	8	5	4	5	13	3	9	10	165
kiln, caldron	17	8	8	16	14	12	21	23	13	31	19	18	22	15	23	21	23	16	21	35	28	25	21	38	488
electric equipment	23	23	15	34	27	23	19	17	31	38	19	20	28	21	36	36	35	17	41	41	44	44	52	52	736

machine			6		3		7	2	6	5	2	2	3	1	2	1	3	1	3	1	1	4	1	2	56
wood planer machine			5		5		11	10	6	2	2	6	9	6	14	3	4	5	3	4	2	4	8	2	111
hollow chisel mortiser, wood borer			1		2		1	1	1	2	2	1		1			2			2	1		2	1	20
chamfering machine, router, woodworking milling machine					1			3	1		1		2	1	1	1	3	1		1			2		18
chain saw			4		4		3	4	5	5	4	2	8	4	4	9	6	4	5	5	5	6	6	7	100
other woodworking machines			18		14		16	15	13	10	13	12	8	11	11	15	11	7	6	14	11	11	9	10	235
leveling, transporting or loading machine			21		19		24	18	19	21	17	18	20	17	17	17	22	17	14	19	10	13	19	24	366
excavating machine			36		39		28	32	28	35	34	20	29	30	31	33	43	32	26	32	44	36	48	44	680
foundation work machine			3		1		1	1	1	1		3	1			1	1	1	2	1				1	19
hardening machine			2		3			1	4	4	3	2	3	1	3	4	4	5	1	2	2	4	3	1	52
demolition machine			4		5		2	2	4	2		1	4	2	4	3	7	8	2	1	4	6	4	7	72
vehicle for high lift work			3		3		2	3	2	6	4	4	3	2	7	3	2	8	3	3	6	7	8	7	86
other construction machines			14		9		17	8	12	12	11	12	13	6	12	9	6	5	9	4	6	7	1	4	177
lathe			7		2		4	1	4	3	3	3	2	6		6	3	2	1	4	3	2	1	2	59
drill press, milling machine			4		8		10	5	3	7	6		5	3	2	1	2	4	2	2	3	2	1	3	73

other vehicles			146		152		119	92	94	87	77	89	89	112	81	49	47	45	53	30	30	34	37	39	1,502
boiler			1		1		1	1	4	4	2				1	1			1	1	2			1	21
pressure vessel			5		4		1	2	1	2	2	1		2		1		3	2	2	3	1	2	1	35
other pressure vessels			25		20		12	13	16	10	13	10	13	16	12	13	10	12	10	5	6	6	20	5	247
chemical facilities			1				5	1	1					1	1	2	1	1	2		1	1	2	3	23
gas welding equipment			4		7		4	2	3	8	6	7	2	3	5	2	2	3	1	3	8	1	5	6	82
arc welding equipment			1		2			2		1	2	2	1		2	1	5	1	3	2	4	2	3	2	36
other welding equipment					1			1		5			2		1		1	1			1		1	2	16
kiln, caldron			5		13		19	17	11	26	16	17	15	12	18	11	13	12	17	33	25	22	17	30	349
industrial dryer							1	3	1	2	1		3	1	2	2	2		3		1	2	1	5	30
other kiln, caldron			3		1		1	3	1	3	2	1	4	2	3	8	8	4	1	2	2	1	3	3	56
transmission			7		5		8	7	16	17	12	12	14	11	18	15	20	12	28	23	24	20	28	38	335
electric power facilities			1		3		3	3	1	4		4	5	1	1	4	2			2	4	4	4	1	47
other electrical equipment			7		19		8	7	14	17	7	4	9	9	17	17	13	5	13	16	16	20	20	13	251
human power cranes			13		8		16	14	9	6	3	5	7	6	2	8	6	2	7	15	86	162	281	433	1,089
human power hauling equipment			674		680		798	869	837	846	896	875	967	961	988	942	1,017	1,064	1,113	1,251	1,213	1,262	1,199	1,149	19,601
human power machine			18		7		16	13	19	12	7	17	10	14	20	15	9	13	14	15	18	14	15	13	279
hand tool			743		820		833	858	838	785	742	702	748	736	735	723	742	727	718	699	710	828	818	760	15,265
ladder			577		612		680	667	691	709	682	691	719	786	740	790	796	837	852	964	1,032	1,011	1,008	1,050	15,894

slinging tool			24		26		26	29	19	24	17	22	23	18	28	7	21	27	23	23	16	14	19	16	422
other tools			479		602		593	691	622	689	607	590	648	654	713	738	703	749	897	917	968	957	1,067	1,014	14,898
other equipment, facilities			333		324		425	470	481	461	450	511	465	512	562	588	534	572	508	588	579	632	697	712	10,404
scaffolding			23		32		29	28	26	20	21	10	17	17	19	13	15	16	23	25	22	10	13	17	396
timbering						2		1	3		1			1				1				3	1	13	
stairs, landing stage			1,022		1,164		1,109	1,138	1,137	1,077	1,052	1,060	1,133	960	1,005	1,058	1,028	1,113	1,086	1,084	1,183	1,148	1,246	1,239	22,042
opening			48		46		30	30	45	31	50	44	31	38	42	52	49	28	50	53	54	45	51	63	880
roof, beam, haze, crossbeam, principal rafter			67		51		53	48	38	36	32	40	53	45	36	38	31	32	30	35	33	25	34	38	795
working platform, boot board			490		568		487	533	528	544	484	560	508	562	510	537	610	565	619	645	667	577	538	705	11,237
passage			1,637		1,711		1,930	1,870	1,883	2,021	1,872	2,096	2,293	2,414	2,340	2,434	2,331	2,706	2,816	3,172	3,012	3,114	3,642	3,531	48,825
building, establishment			517		527		527	529	533	507	526	561	615	565	541	487	559	543	567	626	508	633	579	610	11,060
other temporary buildings, establishments			355		439		388	381	325	378	373	391	378	381	340	450	489	485	434	444	527	571	511	536	8,576
explosive substance			2		3			1	2	3		3			4			2		1	1	1	2	4	29
inflammable substance			30		18		19	21	25	27	18	25	16	28	21	19	11	8	14	17	12	9	17	15	370
inflammable gas			14		16		15	12	11	11	8	5	18	7	8	7	1	16	4	7	6	9	8	7	190
harmful substance			15		11		19	16	10	17	12	17	21	11	13	11	10	20	11	11	11	17	9	9	271
radiation					1			1									1								3
other hazards, harmful substances			58		58		77	71	53	44	50	41	54	62	60	49	52	64	57	54	61	67	66	50	1,148
metal material			323		288		301	300	273	251	189	222	196	240	216	243	203	228	240	245	215	217	239	224	4,853

lumber, bamboo			131		111		137	116	91	94	85	78	85	93	87	71	91	105	78	85	74	81	82	73	1,848
stone, sand, substance			52		43		33	39	39	42	18	29	27	26	26	24	25	22	37	19	31	33	21	27	613
other materials			257		277		251	257	284	246	248	221	231	238	218	242	216	219	196	210	193	201	225	228	4,658
load			1,479		1,410		1,451	1,524	1,570	1,551	1,309	1,313	1,239	1,384	1,336	1,497	1,391	1,446	1,446	1,534	1,612	1,822	1,876	1,996	30,186
machine/equipment as load			95		69		80	82	80	91	66	62	58	79	62	69	63	51	52	57	68	68	62	58	1,372
natural ground, rock			50		29		49	32	27	28	20	22	23	25	22	23	26	26	26	23	32	28	12	28	551
standing tree			12		11		8	12	12	7	11	14	16	11	6	16	20	13	9	11	9	15	12	16	241
water			24		22		25	24	28	23	21	26	215	24	28	30	15	23	18	31	30	28	26	15	676
abnormal environment			9		1		7	2		2	2	7	6	10	2	2	2	4	2	5	2		1	3	69
high/cold temperature environment			112		41		38	58	51	63	43	72	86	87	96	79	70	73	71	168	142	114	108	137	1,709
other environments			409		304		417	391	261	355	338	359	497	581	565	686	460	577	600	729	445	468	632	776	9,850
other causal agent			344		350		356	346	331	283	240	271	323	319	288	349	343	253	381	340	363	444	1,296	381	7,601
no causal agent			631		784		801	704	760	834	858	878	871	965	842	911	936	862	1,055	1,206	1,231	1,442	1,537	1,524	19,632
unclassifiable			74		66		67	62	68	60	53	45	47	33	37	39	39	23	36	38	27	22	24	20	880
total	15,432	15,301	16,164	16,310	16,621	16,574	17,022	16,987	16,656	16,823	15,688	16,211	16,907	17,218	16,836	17,505	17,150	17,693	18,270	19,744	19,434	20,169	22,408	21,702	420,825

Workers age of fatal and non-fatal accidents in commerce 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	722	690	751	721	726	617	633	570	532	515	433	373	406	420	434	406	449	409	428	487	455	486	532	455	12,650
20-29	3,548	3,326	3,550	3,357	3,233	3,191	3,048	2,858	2,678	2,536	2,368	2,332	2,286	2,358	2,237	2,316	2,193	2,182	2,033	2,167	2,069	2,139	2,746	2,361	63,112

June	1,368	1,250	1,365	1,325	1,385	1,411	1,416	1,407	1,460	1,390	1,312	1,443	1,408	1,424	1,341	1,389	1,450	1,451	1,471	1,574	1,640	1,879	1,848	1,716	35,123
July	1,359	1,354	1,409	1,478	1,441	1,500	1,462	1,491	1,484	1,471	1,396	1,401	1,460	1,486	1,445	1,458	1,510	1,501	1,581	1,726	1,743	1,859	2,087	1,893	36,995
August	1,204	1,188	1,345	1,380	1,404	1,343	1,328	1,424	1,492	1,353	1,340	1,426	1,452	1,373	1,387	1,425	1,440	1,466	1,495	1,577	1,715	1,716	2,216	1,716	35,205
September	1,293	1,232	1,249	1,295	1,278	1,390	1,312	1,375	1,245	1,297	1,178	1,268	1,405	1,373	1,286	1,362	1,419	1,422	1,527	1,666	1,555	1,758	1,711	1,852	33,748
October	1,229	1,302	1,398	1,372	1,332	1,358	1,403	1,387	1,461	1,355	1,329	1,340	1,291	1,355	1,499	1,453	1,330	1,406	1,580	1,695	1,574	1,695	1,736	1,800	34,680
November	1,116	1,237	1,200	1,284	1,333	1,239	1,298	1,354	1,286	1,240	1,179	1,179	1,238	1,309	1,376	1,305	1,330	1,381	1,368	1,515	1,534	1,609	1,647	1,640	32,197
December	1,262	1,181	1,252	1,301	1,336	1,286	1,603	1,347	1,294	1,276	1,225	1,257	1,420	1,390	1,391	1,576	1,441	1,469	1,552	1,551	1,608	1,774	1,835	1,851	34,478
total	15,432	15,301	16,164	16,310	16,621	16,574	17,022	16,987	16,656	16,823	15,688	16,211	16,907	17,218	16,836	17,505	17,150	17,693	18,270	19,744	19,434	20,169	22,408	21,702	420,825

Prefecture of fatal and non-fatal accidents in commerce 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	741	789	878		877		904	900	872	856	806	870	827	861	920	957	930	960	977	1,026	1,005	1,130	1,240	1,138	20,464
Aomori	204	160	201		178		186	209	204	195	200	177	181	200	203	202	163	198	230	211	203	213	237	288	4,443
Iwate	140	158	182		165		166	152	139	167	151	145	254	185	199	172	154	181	181	173	191	190	190	214	3,849
Miyagi	322	299	323		395		416	453	392	442	333	363	529	451	416	438	378	438	376	467	436	413	504	497	9,081
Akita	146	174	142		122		153	151	163	157	139	167	176	186	160	156	149	175	146	199	194	196	192	207	3,650
Yamagata	156	171	168		132		163	152	144	159	150	141	151	156	186	168	156	167	184	210	178	184	232	190	3,698
Fukushima	274	230	232		248		274	259	257	266	233	233	221	262	272	271	250	253	268	286	276	299	346	341	5,851
Ibaraki	366	359	361		378		329	391	389	359	313	321	349	358	346	383	379	419	378	415	407	448	483	442	8,373
Tochigi	257	245	248		239		260	218	231	287	232	242	237	247	234	264	246	262	283	287	309	325	308	311	5,772
Gunma	276	244	297		281		292	293	261	263	249	273	274	264	301	313	298	330	315	325	347	376	374	356	6,602
Saitama	578	638	757		819		805	872	841	865	789	837	784	871	857	944	994	955	955	1,035	987	1,079	1,130	1,211	19,603
Chiba	650	647	750		797		683	754	741	751	730	678	737	786	710	754	746	789	775	881	921	923	992	1,031	17,226
Tokyo	1,313	1,303	1,404		1,431		1,443	1,499	1,540	1,546	1,385	1,497	1,607	1,637	1,542	1,617	1,578	1,611	1,668	1,863	1,902	1,828	2,204	2,104	35,522
Kanagawa	1,071	974	1,043		1,091		1,094	1,053	1,016	1,035	978	1,038	1,066	1,115	1,040	1,076	1,090	1,083	1,039	1,185	1,168	1,249	1,368	1,313	24,185
Niigata	342	356	349		328		344	331	354	322	284	304	364	378	392	325	343	318	387	449	390	372	497	436	7,965

Nagasaki	172	162	159		200		174	181	176	179	191	204	172	188	189	212	187	211	232	207	229	253	246	251	4,375
Kumamoto	228	271	264		248		241	272	250	247	227	250	282	240	255	254	240	283	275	277	254	281	319	297	5,755
Oita	173	125	148		155		178	142	173	162	148	159	136	140	171	173	190	181	168	162	199	187	200	182	3,652
Miyazaki	163	175	166		176		164	172	168	173	155	137	165	138	155	155	179	177	184	170	221	215	209	221	3,838
Kagoshima	188	195	184		218		206	194	187	251	192	204	205	205	232	261	224	258	251	268	280	269	280	295	5,047
Okinawa	99	105	139		117		121	141	133	142	127	126	155	167	158	135	146	190	166	182	207	200	246	190	3,392
total	15,432	15,301	16,164	16,310	16,621	16,574	17,022	16,987	16,656	16,823	15,688	16,211	16,907	17,218	16,836	17,505	17,150	17,693	18,270	19,744	19,434	20,169	22,408	21,702	420,825

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 commerce in Japan in 1999-2022

commerce industry Code No.08

Type of fatal accidents in commerce 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	12	19	16	24	14	18	16	21	14	16	21	23	21	9	12	13	17	11	19	9	11	9	14	21	380
falling to same level	4	2	2	4	3	7	8	6	3		3	3	3	3	4	1	4	4	4	2	3	2	2	5	82
crash	1				2		1			3	1			1			3	1	1			2		3	19
struck by flying or falling object	1	2	7	7	2	6	4	2	2	2		1	2	2	1	6	3	2	1	1	2	4	4	4	68
collapse	7	4	3	6	3		4	5	3		6	2	4	3	5	2	3	2	1	1	1		2	3	70
crashed by	4	2	6	2	6	2	2	10	5	5	3	1	1	5	3	4	2	4	4	4	3	5	1	3	87

caught in/between	14	14	14	10	15	12	11	14	19	11	8	13	6	11	3	8	4	8	3	8	6	6	11		229
cut									2	1														1	4
injury to the sole of the foot																									
drown	1	3	1	1		1	1		2		2		111	2	2	1		1	4	2	1	3	1	2	142
contact to high/low-temperature			1				3			1		3	3		4	1	1	1	1	2	1	3	3	2	30
contact to harmful substance	1		3	1						1	2	2			1		1			1	2		1		16
electric shock			1		1							1				1	1		1	1			1		8
explosion	1				1				1				1	4				1					1		10
burst	1		1				2					1			1	2		1		1					10
fire	1	6	1		2	3	1				4		4		1	2	1		1				1		28
traffic accident (public road)	126	136	118	84	103	85	109	90	71	70	57	60	52	69	48	52	45	53	38	40	33	35	22	34	1,630
traffic accident (others)	2	4	1	2	2		1	2			1		1											1	17
reaction to motion/improper motion																									
others	1	3	2	4	3	10	9	1	6	5	6	7	84	8	8	9	7	3	14	6	2	5	8	2	213
unclassifiable				1	1	1			1	3	1	1	1			1									11
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74	72	81	3,054

Causal agents (large) of fatal accidents in commerce 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	4	3	8	1	5	4	2	2	6	2	6	7	4	3	3	3	5	4	2	1	4	5	4	2	90
crane, conveying machine	146	161	136	108	127	102	128	114	97	86	72	66	62	85	56	64	56	66	47	54	41	45	34	50	2,003
other equipment	6	8	9	10	7	8	7	11	3	8	7	12	6	4	7	9	9	5	9	5	6	4	6	5	171
temporary buildings, establishments	10	7	10	11	10	9	14	13	9	11	10	16	14	4	7	7	5	9	14	6	5	8	9	15	233
substance, material	6	7	6	5	3	1	2	1	2	1	4	1	3	3	4	3	5	2		1	1		5		66
load	2	2	2	4	2	6	2	3	3	1	5	2	3	6	2	4	1	1	2	1	2	1	1	1	59

environment	1	4	2	2		2	7	6	2	2	2	6	198	3	6	1	3	2	4	4	4	5	4	5	275
others	2	3	4	5	4	13	10	1	7	7	9	8	4	9	8	12	8	3	14	6	2	6	9	3	157
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74	72	81	3,054

Causal agents (middle) of fatal accidents in commerce 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									2															1	3
construction machine			3		3	1	1	1	4			4	3	1	1	3	4	3		1		3		1	37
metal manufacturing machine					1						1	1			1										4
general machine	4	3	5	1	1	3	1	1		2	5	2	1	2	1		1	1	2		4	2	4		46
mobile silviculture machine																									
crane	6	5	6	6	6	3	5	4	7	4	4	3	3	2	2	2	3	2	2	4	1	1	2	4	87
conveying machine	47	51	41	35	45	31	41	42	40	33	24	16	18	32	19	20	17	20	21	17	10	9	15	20	664
vehicle	93	105	89	67	76	68	82	68	50	49	44	47	41	51	35	42	36	44	24	33	30	35	17	26	1,252
pressure vessel							1													1					2
chemical facilities																									
welding equipment																								1	1
kiln, caldron				1																				1	2
electric equipment					1			1								1	1							1	5
human power machine, tools	2	3		3	2	2	2	4		3		4		1	2		1	1	2	1	2			2	37
tools	2	3	9	3	3	5	4	5	2	4	5	7	4	2	3	6	5	4	5	2	4	3	2	2	94
other equipments, facilities	2	2		3	1	1		1	1	1	2	1	2	1	2	2	2		2	1		1	1	1	30
temporary buildings, establishments	10	7	10	11	10	9	14	13	9	11	10	16	14	4	7	7	5	9	14	6	5	8	9	15	233
hazards, harmful substances	2	6	2	1	2				1	1	2	1	2	3	2		2	1		1	1		2		32

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	62	72	72	45	44	43	64	51	53	44	40	40	135	38	25	35	25	35	34	24	16	33	23	32	1,085
10-29	61	70	59	65	71	58	55	53	43	43	35	36	113	48	34	42	41	37	32	34	29	24	30	30	1,143
30-49	26	31	22	21	24	19	32	27	19	18	23	21	19	17	22	13	12	17	15	11	11	12	11	12	455
50-99	20	13	14	11	14	15	13	14	7	9	13	11	13	7	6	8	6	3	7	3	6	2	5	4	224
100-299	7	9	9	3	4	6	8	3	5	3	2	8	10	6	6	5	6		3	5	2	3	2	1	116
300 workers or more	1		1	1	1	4		3	2	1	2	2	4	1			2		1	1	1		1	2	31
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74	72	81	3,054

Month of fatal accidents in commerce 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	12	21	11	11	12	14	14	13	10	5	14	15	10	12	9	15	6	9	11	6	8	8	5	7	258
February	19	16	21	15	17	14	17	12	7	11	11	9	8	8	11	11	10	6	9	12	6	9	4	9	272
March	16	15	16	17	16	14	12	10	14	8	12	10	204	11	5	9	9	5	11	5	2	7	5	10	443
April	16	11	12	12	12	15	12	14	13	8	9	8	9	6	10	4	8	6	6	8	4	5	2	3	213
May	14	11	14	7	14	6	12	8	9	12	7	3	7	7	4	3	10	5	8	5	12	4	7	1	190
June	19	21	17	12	18	6	22	14	8	10	5	7	16	14	9	9	5	7	5	4	5	7	4	5	249
July	13	16	12	16	12	7	16	13	10	10	15	20	11	5	14	6	10	5	8	6	3	6	13	11	258
August	9	18	16	8	11	11	16	16	6	12	7	9	6	9	9	10	9	9	9	6	4	4	14	4	232
September	21	13	10	9	9	13	12	14	14	9	5	13	6	14	3	12	4	7	6	9	1	6	4	8	222
October	14	16	21	10	14	14	12	11	18	5	11	6	1	10	5	9	7	10	9	6	4	6	6	3	228
November	12	14	12	13	11	15	8	16	12	16	8	7	5	9	6	5	8	10	3	6	12	6	2	10	226
December	12	23	15	16	12	16	19	10	8	12	11	11	11	12	8	10	6	13	7	5	4	6	6	10	263
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74	72	81	3,054

Prefecture of fatal accidents in commerce 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	9	12	14	7	8	8	7	14	7	7	3	8	8	8	6	11	4	4	9	7	3	4	8	5	181
Aomori	3		4	2	2	1	3	3	1	2	3	1	2	1	1	1	2	4	1	1	3	1		3	45
Iwate	5	2	4	1	2	1	1	1	2	1		3	81	3	3	4	1	2	1			1	1	5	125
Miyagi	5	1	4	2	1		4	3	1	2	3	2	110	1	1	3	2	1	5	2		1	3		157
Akita	3	3		1	4	2	1	2			2	2	4		1	1		3			2			1	32
Yamagata	2	4	1				1	1	1	3	2		3	2	2	1	1		2	1					27
Fukushima	6	6	5	1	2	2	5	3	4	2	1	2	8	4	1	2	4	5	5	1	1	2		2	74
Ibaraki	7	4	8	7	3	2	4	9	3	1	3	4		6	8	4	5	3		3	2	2	3	1	92
Tochigi	2	12	4	3	4	1	4	8	2	5	1	3		5	3	1	1	4	3	2	3	2	2	1	76
Gunma	5	2		4		3	4	2	2	3	6	1		4		3	1	1	1		3	2			47
Saitama	5	8	8	8	8	15	7	5	7	6	4	7	7	2	8	2	4	4	1	3	3		2	3	127
Chiba	12	10	9	1	3	6	6	6	6	9	6	6	3	2	3	3	2	3	4	1	4	2	2	3	112
Tokyo	7	9	11	8	8	7	9	9	11	6	3	9	4	9	2	2	8	3	7	7	3	4	8	4	158
Kanagawa	5	10	6	7	9	5	8	3	3	3	6	5	3	3	2	1	4	3	3	4	1	1	3	6	104
Niigata	5	4	5	3	7	3	4	1	4	2	2	1	2	2	1	2	1	2		1		2	2	1	57
Toyama	1	3	2		1	2	1	1		3	1		2	1	1		2	2		1	1	2	2	1	30
Ishikawa	4	1	1	2	2	1		1	4	3	4	1		1		1	1	2	2				2	1	34
Fukui	3	2			2	1	1		1	1	1		2	1	3		1				2		1		22
Yamanashi		1		1	2		2	2			2	1	2			1	2	1				1			18
Nagano	4	7	2	4	3	4	5	2	2	1	3		2		1	1	1	1	3	1	2	3		4	56
Gifu	3	5	3	3	2	5	1		3	3	2	2	2	3	2	3	1	2		4	3	2	1	2	57
Shizuoka	6	8	4	6	5	3	9	7	4	2	1	2	2	2		5	1	3	4	5	2	3	1	1	86
Aichi	9	10	11	9	11	7	14	11	7	7	4	6	4	4	3	7	4	6	1	4	7	3	2	2	153
Mie	2	2	5	3	7	7	2	1	4	2	3	3	1	4	2	2			2	1	1	3	2		59
Shiga	4	5	4	3	1	4	2	2	2	2	5	1	2		1	2	1	3	1	2	2	1	1	2	53

Kyoto	3	6	2	2	3	2			1		4	4	3	1	1	5	3	1	2	4	1	2	2	1	53
Osaka	8	8	9	14	15	7	15	8	9	7	10	7	6	9	7	8	6	3	5	11	5	5	7	8	197
Hyogo	2	6	5	3	3	6	7	9	4	9	1	5	4	2	5	5	4	8	1	2		1	3	5	100
Nara	1	1	2	2	2	1	1	2	3	3	2		1				1	1				1	1		25
Wakayama	1	3	2	2		1	2		2	3	2	1		2	1	1	1								24
Tottori	1	4	2	1	1		2	1				1	2	2	1							1			19
Shimane	1		1	1	1	3			2	2		1		1			3		1				2	1	20
Okayama	2	3	4	5	3	4	2	2	5	1		1	1	4	4	3	2		3		2	1			52
Hiroshima	7	3	2	1	8	3	8	3	4	2	4	4	1	9	2	2	4	1	4	2	1	1	1	2	79
Yamaguchi	3	5	3	1	2	4	3	7		2	4	3	2	2	1	2		2	2	2		2		2	54
Tokushima	2		1	3	1		1	5	3	2			2	1		1	1	1	1	1		1	1		28
Kagawa	1		5	3	1	3	5	1	1	1	1	5		2	1	2		1	2	1	2	2	1		41
Ehime	3	5	3	2	2	3	4	3	2	2	3	1	3	2	2		3	2		1			3		49
Kochi		3	1		1		1		2	1	1	2				1		1				1		1	16
Fukuoka	8	6	10	10	10	5	5	4	4	2	4	3	6	4	4	5	3	4	7	2	1	5	1	4	117
Saga	4	1	1	3	1	1			1	1	1	1		1	1	1	2			1	1	2			24
Nagasaki	1		3	3	2		1						1		2				3			1			17
Kumamoto	2	3	4	1		3	4	3	1	2	1	3	3	3	2	2	2						1	4	44
Oita	6	2		1		3	2	3				3	1	2	2		1		2		3	1			32
Miyazaki	3	2		1	2		1	1	3		2				2	1	1	1	2			1	1	2	26
Kagoshima	1	3	1	1	3	3	2	2	1	2	4	1	2			1	1	4	1		1	3	2	2	41
Okinawa			1			3	1					2	2	2					1			1		1	14
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74	72	81	3,054

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

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