

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
electric shock	1	4	10	12	7	6	2	3	11	8	2	6	6	6	5	8	6	4	6	8	5	9
explosion	15	8	7	9	7	6	10	6	11	11	5	4	9	8	7	2	4	8	4	3	6	4
burst	13	16	17	18	12	15	17	13	14	18	11	9	6	12	8	10	8	13	8	11	8	12
fire	18	11	7	16	10	16	10	17	16	8	6	9	17	10	11	9	4	11	4	7	7	1
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
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
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
others	126	108	121	123	125	135	127	132	127	122	139	128	218	119	104	106	128	116	120	126	117	283
unclassifiable	50	40	60	62	46	48	46	51	50	47	31	31	32	42	26	19	34	32	29	25	30	23
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

Causal agents (middle) of industrial accidents in commerce in 1999-2020

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
engine	5	8	7	3	5	6	7	1	6	1	1	5	3	6	1	1	5	8	3	4	6	4
power transmission	38	30	26	26	36	24	23	20	22	27	19	16	27	23	32	20	19	27	20	20	15	16

mechanism																						
woodworking machine	89	98	70	81	76	81	86	74	65	68	62	52	65	68	55	57	57	46	46	59	44	58
construction machine	92	75	83	79	79	74	74	65	70	81	69	60	73	58	74	70	85	76	57	62	72	73
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
general machine	655	647	660	660	680	642	684	646	625	643	580	627	610	566	596	502	562	560	541	578	558	546
mobile silviculture machine																	0	1	1	1	4	0
crane	183	196	206	166	211	158	156	163	165	164	148	134	112	126	124	150	119	109	114	153	136	121
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
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
pressure vessel	26	24	31	20	25	9	14	16	21	16	17	11	13	18	13	15	10	15	13	8	11	7
chemical facilities	1	1	1	-	0	3	5	1	1	0	0	0	0	1	1	2	1	1	2	0	1	1
welding equipment	7	6	5	11	10	7	4	5	3	14	8	9	5	3	8	3	8	5	4	5	13	3
kiln, caldron	17	8	8	16	14	12	21	23	13	31	19	18	22	15	23	21	23	16	21	35	28	25
electric	23	23	15	34	27	23	19	17	31	38	19	20	28	21	36	36	35	17	41	41	44	44

equipment																							
human power	1,314	1,367	1,448	1,563	1,515	1,607	1,663	1,754	1,703	1,649	1,648	1,599	1,732	1,717	1,745	1,688	1,774	1,806	1,852	1,980	2,027	2,266	
machine, tools																							
tools	999	1,076	1,080	1,110	1,240	1,331	1,299	1,387	1,332	1,422	1,306	1,303	1,390	1,458	1,481	1,535	1,520	1,613	1,772	1,904	2,016	1,982	
other																							
equipments,	318	339	333	338	324	430	425	470	481	461	450	511	465	512	562	588	534	572	508	588	579	632	
facilities																							
temporary																							
buildings,	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	
establishments																							
hazards,																							
harmful	123	108	119	134	107	126	130	122	101	102	88	91	109	108	106	86	75	110	86	90	91	103	
substances																							
materials	829	771	763	756	719	797	722	712	687	633	540	550	539	597	547	580	535	574	551	559	513	532	
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	
natural																							
environment	423	399	616	407	408	462	544	519	379	478	435	500	843	738	719	836	593	716	726	967	660	653	
other causal																							
agent	391	354	344	322	350	370	356	346	331	283	240	271	323	319	288	349	343	253	381	340	363	444	
no causal agent	645	579	631	825	784	689	801	704	760	834	858	878	871	965	842	911	936	862	1,055	1,206	1,231	1,442	
unclassifiable	89	56	74	78	66	69	67	62	68	60	53	45	47	33	37	39	39	23	36	38	27	22	
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	

Causal agents (small) of industrial accidents in commerce in 1999-2020

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
engine			7		5		7	1	6	1	1	5	3	6	1	1	5	8	3	4	6	4
power transmission mechanism			26		36		23	20	22	27	19	16	27	23	32	20	19	27	20	20	15	16
circular sawing machine			36		47		48	39	33	44	38	29	35	44	23	28	28	28	29	32	24	33
band sawing machine			6		3		7	2	6	5	2	2	3	1	2	1	3	1	3	1	1	4
wood planer machine			5		5		11	10	6	2	2	6	9	6	14	3	4	5	3	4	2	4
hollow chisel mortiser, wood borer			1		2		1	1	1	2	2	1	0	1	0	0	2	0	0	2	1	0
chamfering machine, router, woodworking milling machine			0		1		0	3	1	0	1	0	2	1	1	1	3	1	0	1	0	0
chain saw			4		4		3	4	5	5	4	2	8	4	4	9	6	4	5	5	5	6
other woodworking machines			18		14		16	15	13	10	13	12	8	11	11	15	11	7	6	14	11	11
leveling, transporting or loading machine			21		19		24	18	19	21	17	18	20	17	17	17	22	17	14	19	10	13
excavating machine			36		39		28	32	28	35	34	20	29	30	31	33	43	32	26	32	44	36
foundation work machine			3		1		1	1	1	1	0	3	1	0	0	1	1	1	2	1	0	0
hardening machine			2		3		0	1	4	4	3	2	3	1	3	4	4	5	1	2	2	4
demolition machine			4		5		2	2	4	2	0	1	4	2	4	3	7	8	2	1	4	6
vehicle for high lift			3		3		2	3	2	6	4	4	3	2	7	3	2	8	3	3	6	7

industrial robot			2		3		1	2	1	1	1	0	0	1	0	0	1	0	0	3	0	2
other general power machines			262		269		276	258	242	220	222	211	201	212	225	189	199	212	188	205	209	215
felling machine																0	1	1	1	2	0	
mobile logging machine																0	0	0	0	1	0	
skyline yarding machine																0	0	0	0	0	0	
other mobile silviculture machine																0	0	0	0	1	0	
crane			56		70		47	43	43	46	30	32	37	35	41	52	25	29	37	57	40	32
mobile crane			75		71		56	49	57	61	62	57	32	35	42	50	52	48	29	33	37	48
derrick crane			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
elevator, lift			57		62		44	47	56	44	50	33	32	37	33	40	33	30	39	44	46	33
cargo lifting appliance			1		0		0	0	0	0	0	0	0	1	0	0	0	1	2	1	0	
gondola			1		0		0	1	0	1	1	0	0	0	0	0	0	0	1	0	0	
lumberyard equipment, logging cableway			3		0		0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0
simple skyline yarding equipment																0	0	0	0	0	0	
other powered crane			13		8		9	23	9	12	5	12	11	17	7	8	8	2	8	16	12	8
truck			884		902		819	807	800	743	671	688	692	729	680	723	714	722	722	736	760	771
forklift			358		369		366	363	385	360	293	274	308	284	276	282	278	333	321	299	354	315

railway equipment			0	0	1	0	0	1	0	0	0	0	1	0	0	1	0	2	0	1
conveyor			74	74	85	85	81	68	65	62	53	71	73	85	76	69	52	55	76	49
loader			8	8	6	10	5	2	2	1	3	2	2	3	4	6	3	4	2	6
straddle carrier			0	0	0	1	0	0	1	0	0	0	0	1	0	0	1	1	0	0
rough terrain hauler			2	0	1	1	1	2	3	3	1	0	2	0	3	3	1	1	1	0
other powered conveying machines			50	60	57	52	56	47	29	49	47	48	37	37	46	49	53	51	47	51
cars, bus, motorcycle			2,292	2,264	2,310	2,217	2,126	2,168	2,124	2,138	2,048	2,099	2,106	2,137	2,091	2,000	2,035	2,173	1,973	1,875
railway vehicle			6	3	2	2	2	4	3	3	8	1	0	2	4	3	4	2	3	2
other vehicles			146	152	119	92	94	87	77	89	89	112	81	49	47	45	53	30	30	34
boiler			1	1	1	1	4	4	2	0	0	0	1	1	0	0	1	1	2	0
pressure vessel			5	4	1	2	1	2	2	1	0	2	0	1	0	3	2	2	3	1
other pressure vessels			25	20	12	13	16	10	13	10	13	16	12	13	10	12	10	5	6	6
chemical facilities			1	0	5	1	1	0	0	0	0	1	1	2	1	1	2	0	1	1
gas welding equipment			4	7	4	2	3	8	6	7	2	3	5	2	2	3	1	3	8	1
arc welding equipment			1	2	0	2	0	1	2	2	1	0	2	1	5	1	3	2	4	2
other welding equipment			0	1	0	1	0	5	0	0	2	0	1	0	1	1	0	0	1	0
kiln, caldron			5	13	19	17	11	26	16	17	15	12	18	11	13	12	17	33	25	22
industrial dryer			0	0	1	3	1	2	1	0	3	1	2	2	2	0	3	0	1	2
other kiln, caldron			3	1	1	3	1	3	2	1	4	2	3	8	8	4	1	2	2	1
transmission			7	5	8	7	16	17	12	12	14	11	18	15	20	12	28	23	24	20
electric power facilities			1	3	3	3	1	4	0	4	5	1	1	4	2	0	0	2	4	4

other electrical equipment			7	19	8	7	14	17	7	4	9	9	17	17	13	5	13	16	16	20
human power cranes			13	8	16	14	9	6	3	5	7	6	2	8	6	2	7	15	86	162
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
human power machine			18	7	16	13	19	12	7	17	10	14	20	15	9	13	14	15	18	14
hand tool			743	820	833	858	838	785	742	702	748	736	735	723	742	727	718	699	710	828
ladder			577	612	680	667	691	709	682	691	719	786	740	790	796	837	852	964	1,032	1,011
slinging tool			24	26	26	29	19	24	17	22	23	18	28	7	21	27	23	23	16	14
other tools			479	602	593	691	622	689	607	590	648	654	713	738	703	749	897	917	968	957
other equipment, facilities			333	324	425	470	481	461	450	511	465	512	562	588	534	572	508	588	579	632
scaffolding			23	32	29	28	26	20	21	10	17	17	19	13	15	16	23	25	22	10
timbering			0	0	2	0	1	3	0	1	0	0	1	0	0	0	1	0	0	0
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
opening			48	46	30	30	45	31	50	44	31	38	42	52	49	28	50	53	54	45
roof, beam, haze, crossbeam, principal rafter			67	51	53	48	38	36	32	40	53	45	36	38	31	32	30	35	33	25
working platform, boot board			490	568	487	533	528	544	484	560	508	562	510	537	610	565	619	645	667	577
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
building, establishment			517	527	527	529	533	507	526	561	615	565	541	487	559	543	567	626	508	633

other temporary buildings, establishments			355	439		388	381	325	378	373	391	378	381	340	450	489	485	434	444	527	571
explosive substance			2	3		0	1	2	3	0	3	0	0	4	0	0	2	0	1	1	1
inflammable substance			30	18		19	21	25	27	18	25	16	28	21	19	11	8	14	17	12	9
inflammable gas			14	16		15	12	11	11	8	5	18	7	8	7	1	16	4	7	6	9
harmful substance			15	11		19	16	10	17	12	17	21	11	13	11	10	20	11	11	11	17
radiation			0	1		0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
other hazards, harmful substances			58	58		77	71	53	44	50	41	54	62	60	49	52	64	57	54	61	67
metal material			323	288		301	300	273	251	189	222	196	240	216	243	203	228	240	245	215	217
lumber, bamboo			131	111		137	116	91	94	85	78	85	93	87	71	91	105	78	85	74	81
stone, sand, substance			52	43		33	39	39	42	18	29	27	26	26	24	25	22	37	19	31	33
other materials			257	277		251	257	284	246	248	221	231	238	218	242	216	219	196	210	193	201
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
machine/equipment as load			95	69		80	82	80	91	66	62	58	79	62	69	63	51	52	57	68	68
natural ground, rock			50	29		49	32	27	28	20	22	23	25	22	23	26	26	26	23	32	28
standing tree			12	11		8	12	12	7	11	14	16	11	6	16	20	13	9	11	9	15
water			24	22		25	24	28	23	21	26	215	24	28	30	15	23	18	31	30	28
abnormal environment			9	1		7	2	0	2	2	7	6	10	2	2	2	4	2	5	2	0
high/cold temperature environment			112	41		38	58	51	63	43	72	86	87	96	79	70	73	71	168	142	114
other environments			409	304		417	391	261	355	338	359	497	581	565	686	460	577	600	729	445	468

other causal agent			344		350		356	346	331	283	240	271	323	319	288	349	343	253	381	340	363	444
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
unclassifiable			74		66		67	62	68	60	53	45	47	33	37	39	39	23	36	38	27	22
total			16,164		16,621		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

Workers age of industrial accidents in commerce in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
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
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
30-39	2,563	2,670	2,792	2,937	3,086	3,121	3,052	3,164	3,163	2,983	2,804	2,775	2,795	2,832	2,660	2,552	2,485	2,315	2,382	2,500	2,281	2,322
40-49	3,186	3,055	3,089	3,076	3,094	3,120	3,175	3,143	3,145	3,159	2,992	3,134	3,271	3,321	3,435	3,524	3,500	3,547	3,674	3,842	3,719	3,733
50-59	3,760	3,927	4,282	4,413	4,561	4,539	4,942	5,019	4,796	4,748	4,237	4,319	4,455	4,394	4,134	4,383	4,290	4,459	4,654	4,988	5,001	5,195
60 years old or more	1,653	1,633	1,700	1,806	1,921	1,986	2,172	2,233	2,342	2,882	2,854	3,278	3,694	3,893	3,936	4,324	4,233	4,781	5,099	5,760	5,909	6,294
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

Workers' number of workplace of industrial accidents in commerce in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	3,959	3,940	4,057	3,928	4,031	3,905	3,965	3,733	3,588	3,689	3,256	3,393	3,554	3,554	3,333	3,310	3,160	3,372	3,389	3,692	3,487	3,536
10-29	4,818	4,756	4,969	4,966	4,914	4,931	4,904	4,828	4,724	4,746	4,500	4,664	4,875	5,026	4,907	5,114	5,006	5,194	5,355	5,799	5,697	5,811

30-49	2,128	2,144	2,300	2,320	2,314	2,368	2,404	2,449	2,420	2,487	2,332	2,335	2,397	2,515	2,501	2,698	2,539	2,583	2,690	2,789	2,809	2,852
50-99	1,940	1,921	2,049	2,099	2,089	2,103	2,348	2,441	2,364	2,416	2,290	2,425	2,507	2,457	2,603	2,724	2,700	2,666	2,827	3,084	3,118	3,338
100-299	1,766	1,723	1,859	1,983	2,116	2,093	2,196	2,283	2,347	2,342	2,212	2,317	2,454	2,470	2,401	2,519	2,670	2,764	2,882	3,109	3,150	3,366
300 workers or more	821	817	930	1,014	1,157	1,174	1,205	1,253	1,213	1,143	1,098	1,077	1,120	1,196	1,091	1,140	1,075	1,114	1,127	1,271	1,173	1,266
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

Month of industrial accidents in commerce in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	1,312	1,259	1,668	1,416	1,607	1,569	1,502	1,575	1,395	1,537	1,454	1,388	1,680	1,596	1,723	1,523	1,538	1,749	1,800	2,127	1,708	1,630
February	1,366	1,326	1,290	1,293	1,301	1,284	1,445	1,435	1,309	1,681	1,317	1,413	1,363	1,673	1,343	1,857	1,340	1,464	1,470	1,653	1,597	1,526
March	1,281	1,438	1,356	1,382	1,438	1,430	1,494	1,433	1,468	1,455	1,385	1,458	1,617	1,455	1,353	1,487	1,575	1,503	1,526	1,643	1,677	1,596
April	1,314	1,261	1,271	1,352	1,388	1,392	1,386	1,343	1,326	1,359	1,315	1,339	1,236	1,374	1,347	1,322	1,394	1,403	1,462	1,494	1,496	1,550
May	1,328	1,273	1,361	1,432	1,378	1,372	1,373	1,416	1,436	1,409	1,258	1,299	1,337	1,410	1,345	1,348	1,383	1,478	1,438	1,523	1,587	1,577
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
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
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
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
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
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
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
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

Nagano	213	202	238		259		250	246	254	226	246	247	263	268	278	280	308	274	338	323	342	368
Gifu	192	208	232		234		265	274	249	221	217	263	224	240	225	239	217	273	293	297	285	322
Shizuoka	507	540	527		559		500	548	570	499	533	505	543	512	521	530	544	546	566	603	627	602
Aichi	897	892	888		857		920	929	873	975	926	937	970	911	862	1,068	886	906	1,040	1,145	1,048	1,145
Mie	270	255	276		259		269	289	267	280	250	284	284	310	269	273	265	273	323	309	302	357
Shiga	132	138	131		138		169	184	166	175	163	169	168	194	170	147	176	187	199	195	200	204
Kyoto	279	409	328		375		395	350	369	351	326	335	375	363	361	345	339	336	331	363	358	369
Osaka	1,106	1,100	1,200		1,291		1,245	1,301	1,279	1,268	1,162	1,130	1,137	1,203	1,211	1,242	1,167	1,198	1,268	1,426	1,418	1,380
Hyogo	643	590	618		687		715	645	670	647	592	681	655	684	649	694	696	724	732	781	758	798
Nara	155	138	136		180		213	172	182	231	234	225	213	195	211	197	203	215	213	235	208	228
Wakayama	124	129	140		147		168	145	142	156	136	123	135	114	117	139	108	109	110	151	169	143
Tottori	74	81	87		85		86	76	74	78	63	70	88	65	70	75	72	63	82	91	74	84
Shimane	108	101	97		113		88	88	76	100	84	77	83	100	117	77	93	87	110	116	111	95
Okayama	200	210	225		240		289	258	261	271	228	244	242	266	263	228	265	234	285	287	261	298
Hiroshima	416	387	407		400		443	416	435	388	414	387	415	399	411	385	439	408	454	445	428	465
Yamaguchi	224	200	206		217		252	236	199	223	211	227	223	228	192	181	196	195	228	234	209	240
Tokushima	109	83	124		93		120	92	93	95	82	84	80	94	88	91	83	87	112	96	102	131
Kagawa	170	188	175		169		188	174	163	160	164	190	151	202	161	151	167	155	187	169	195	191
Ehime	150	183	175		198		193	182	176	182	142	148	181	189	189	175	185	183	189	233	182	211
Kochi	165	158	160		167		132	134	93	109	111	123	138	130	104	121	110	117	120	112	120	144
Fukuoka	785	773	777		779		853	808	782	776	786	783	805	882	798	928	948	1,012	937	993	970	998
Saga	153	115	101		118		117	126	130	126	116	121	107	124	124	150	156	141	133	215	161	180
Nagasaki	172	162	159		200		174	181	176	179	191	204	172	188	189	212	187	211	232	207	229	253

Kumamoto	228	271	264		248		241	272	250	247	227	250	282	240	255	254	240	283	275	277	254	281
Oita	173	125	148		155		178	142	173	162	148	159	136	140	171	173	190	181	168	162	199	187
Miyazaki	163	175	166		176		164	172	168	173	155	137	165	138	155	155	179	177	184	170	221	215
Kagoshima	188	195	184		218		206	194	187	251	192	204	205	205	232	261	224	258	251	268	280	269
Okinawa	99	105	139		117		121	141	133	142	127	126	155	167	158	135	146	190	166	182	207	200
total	15,432	15,301	16,164		16,621		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

Industrial accidents mean fatal and non-fatal injuries with work absence of 4 days and more. Data of 2011 year include Industrial 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/2020e_industry.html

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Fatal accidents in commerce in Japan in 1999-2020

commerce industry Code No.08

Type of fatal accidents in commerce in 1999-2020

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
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
falling to same level	4	2	2	4	3	7	8	6	3	0	3	3	3	3	4	1	4	4	4	2	3	2
crash	1	0	0	0	2	0	1	0	0	3	1	0	0	1	0	0	3	1	1	0	0	2
struck by flying or falling object	1	2	7	7	2	6	4	2	2	2	0	1	2	2	1	6	3	2	1	1	2	4

no causal agent	0	1	2	2	0	6	5	0	4	3	8	7	4	8	8	7	8	3	14	5	2	3
unclassifiable	0	1	0	1	1	1	2	0	1	3	1	1	0	1	0	1	0	0	0	0	0	0
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74

Causal agents (small) of fatal accidents in commerce in 1999-2020

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	
engine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
circular sawing machine	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
band sawing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wood planer machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hollow chisel mortiser, wood borer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chamfering machine, router, woodworking milling machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other woodworking machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
leveling, transporting or loading machine	0	0	2	0	1	0	0	1	2	0	0	1	2	1	0	2	1	1	0	1	0	1	1
excavating machine	0	0	0	0	1	1	0	0	1	0	0	2	1	0	0	1	2	0	0	0	0	0	0
foundation work machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hardening machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
demolition machine	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
vehicle for high lift work	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
other construction machines	0	0	0	0	0	0	1	0	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0

lathe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drill press, milling machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
grinding machine, buffing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power press	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
forging pressure hammer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
shearing machine	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
other metal manufacturing machines	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
centrifugal machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mixer, grinder	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
roll machine (except printingroll machine)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
injection molding machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
food manufacturing machine	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
printing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial robot	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other general power machines	3	3	5	0	1	3	1	0	0	2	5	1	1	2	1	0	1	1	2	0	3	2
felling machine																	0	0	0	0	0	0
mobile logging machine																	0	0	0	0	0	0
skyline yarding machine																	0	0	0	0	0	0
other mobile silviculture machine																	0	0	0	0	0	0
crane	1	0	1	1	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0
mobile crane	2	2	3	1	3	1	2	2	1	3	3	1	0	1	2	0	1	0	1	2	0	1
derrick crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
elevator, lift	2	2	2	2	3	1	2	0	4	0	1	2	3	1	0	2	2	2	1	2	0	0

kiln, caldron	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial dryer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric power facilities	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0
other electrical equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power cranes	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	1	0
human power hauling equipment	1	2	0	2	1	2	2	3	0	2	0	4	0	1	2	0	0	0	2	1	1	0
human power machine	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hand tool	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
ladder	1	3	5	2	2	4	3	4	2	2	4	6	4	2	3	2	5	2	4	2	3	2
slinging tool	1	0	3	1	1	0	0	1	0	2	0	0	0	0	0	0	0	1	1	0	0	0
other tools	0	0	1	0	0	1	1	0	0	0	1	1	0	0	0	4	0	1	0	0	1	1
other equipment, facilities	2	2	0	3	1	1	0	1	1	1	2	1	2	1	2	2	2	0	2	1	0	1
scaffolding	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
timbering	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stairs, landing stage	2	0	0	1	3	0	4	1	2	3	4	6	2	2	0	2	0	1	3	2	2	3
opening	1	1	0	0	0	3	1	1	0	1	3	0	1	1	0	0	1	0	1	1	0	0
roof, beam, haze, crossbeam, principal rafter	1	1	4	2	0	1	4	1	2	2	0	2	3	1	3	1	0	1	4	0	1	1
working platform, boot board	1	1	2	0	1	0	1	2	0	2	0	2	0	0	1	0	0	0	1	0	1	1
passage	0	1	1	1	1	2	1	3	1	0	1	1	2	0	2	0	2	3	1	1	1	3
building, establishment	5	3	2	7	4	1	3	4	4	3	2	3	6	0	1	0	2	4	2	2	0	0
other temporary buildings, establishments	0	0	1	0	1	2	0	0	0	0	0	2	0	0	0	3	0	0	2	0	0	0

explosive substance	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable substance	1	6	0	0	1	0	0	0	1	1	2	0	1	1	1	0	1	1	0	0	0	0	0
inflammable gas	0	0	1	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0
harmful substance	1	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
radiation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
metal material	3	1	2	2	1	1	2	1	1	0	0	0	1	0	2	1	1	0	0	0	0	0	0
lumber, bamboo	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0
stone, sand, substance	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other materials	0	0	1	1	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0
load	2	1	2	4	2	4	2	2	2	1	5	2	1	6	2	3	1	1	2	1	2	1	1
machine/equipment as load	0	1	0	0	0	2	0	1	1	0	0	0	2	0	0	1	0	0	0	0	0	0	0
natural ground, rock	1	0	0	0	0	0	1	2	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0
standing tree	0	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0
water	0	2	0	0	0	1	0	0	2	0	1	0	191	2	2	0	0	0	4	0	1	2	2
abnormal environment	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
high/cold temperature environment	0	0	1	0	0	0	3	0	0	1	0	3	2	0	4	0	1	1	0	2	1	2	2
other environments	0	2	0	2	0	0	3	3	0	1	0	1	4	0	0	1	0	1	0	2	0	1	1
other causal agent	2	1	2	2	3	6	3	1	2	1	0	0	0	0	4	0	0	0	1	0	3	0	3
no causal agent	0	1	2	2	0	6	5	0	4	3	8	7	4	8	8	7	8	3	14	5	2	3	3
unclassifiable	0	1	0	1	1	1	2	0	1	3	1	1	0	1	0	1	0	0	0	0	0	0	0
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74	74

Workers age of fatal accidents in commerce in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
19 years old or less	10	5	9	1	4	4	3	5	1	3	0	0	6	2	2	1	1	0	1	4	0	0
20-29	41	40	38	23	33	16	23	22	20	18	13	17	27	13	11	13	6	10	7	3	5	6
30-39	25	39	26	30	23	24	26	17	20	15	7	17	59	19	6	11	11	15	11	6	4	6
40-49	21	27	25	22	26	22	31	22	16	13	22	16	64	21	25	15	12	19	16	12	14	6
50-59	30	39	47	38	38	44	53	36	40	28	30	30	67	25	21	22	21	15	21	19	16	20
60 years old or more	50	45	32	32	34	35	36	49	32	41	43	38	71	37	28	41	41	33	36	34	26	36
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74

Workers' number of workplace of fatal accidents in commerce in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
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
10-29	61	70	59	65	71	58	55	53	43	43	35	36	113	48	34	42	41	37	32	34	29	24
30-49	26	31	22	21	24	19	32	27	19	18	23	21	19	17	22	13	12	17	15	11	11	12
50-99	20	13	14	11	14	15	13	14	7	9	13	11	13	7	6	8	6	3	7	3	6	2
100-299	7	9	9	3	4	6	8	3	5	3	2	8	10	6	6	5	6	0	3	5	2	3
300 workers or more	1	0	1	1	1	4	0	3	2	1	2	2	4	1	0	0	2	0	1	1	1	0
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74

Month of fatal accidents in commerce in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Jan	10	5	9	1	4	4	3	5	1	3	0	0	6	2	2	1	1	0	1	4	0	0
Feb	41	40	38	23	33	16	23	22	20	18	13	17	27	13	11	13	6	10	7	3	5	6
Mar	25	39	26	30	23	24	26	17	20	15	7	17	59	19	6	11	11	15	11	6	4	6
Apr	21	27	25	22	26	22	31	22	16	13	22	16	64	21	25	15	12	19	16	12	14	6
May	30	39	47	38	38	44	53	36	40	28	30	30	67	25	21	22	21	15	21	19	16	20
Jun	50	45	32	32	34	35	36	49	32	41	43	38	71	37	28	41	41	33	36	34	26	36
Jul	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74

Yamagata	2	4	1	0	0	0	1	1	1	3	2	0	3	2	2	1	1	0	2	1	0	0
Fukushima	6	6	5	1	2	2	5	3	4	2	1	2	8	4	1	2	4	5	5	1	1	2
Ibaraki	7	4	8	7	3	2	4	9	3	1	3	4	0	6	8	4	5	3	0	3	2	2
Tochigi	2	12	4	3	4	1	4	8	2	5	1	3	0	5	3	1	1	4	3	2	3	2
Gunma	5	2	0	4	0	3	4	2	2	3	6	1	0	4	0	3	1	1	1	0	3	2
Saitama	5	8	8	8	8	15	7	5	7	6	4	7	7	2	8	2	4	4	1	3	3	0
Chiba	12	10	9	1	3	6	6	6	6	9	6	6	3	2	3	3	2	3	4	1	4	2
Tokyo	7	9	11	8	8	7	9	9	11	6	3	9	4	9	2	2	8	3	7	7	3	4
Kanagawa	5	10	6	7	9	5	8	3	3	3	6	5	3	3	2	1	4	3	3	4	1	1
Niigata	5	4	5	3	7	3	4	1	4	2	2	1	2	2	1	2	1	2	0	1	0	2
Toyama	1	3	2	0	1	2	1	1	0	3	1	0	2	1	1	0	2	2	0	1	1	2
Ishikawa	4	1	1	2	2	1	0	1	4	3	4	1	0	1	0	1	1	2	2	0	0	0
Fukui	3	2	0	0	2	1	1	0	1	1	1	0	2	1	3	0	1	0	0	0	2	0
Yamanashi	0	1	0	1	2	0	2	2	0	0	2	1	2	0	0	1	2	1	0	0	0	1
Nagano	4	7	2	4	3	4	5	2	2	1	3	0	2	0	1	1	1	1	3	1	2	3
Gifu	3	5	3	3	2	5	1	0	3	3	2	2	2	3	2	3	1	2	0	4	3	2
Shizuoka	6	8	4	6	5	3	9	7	4	2	1	2	2	2	0	5	1	3	4	5	2	3
Aichi	9	10	11	9	11	7	14	11	7	7	4	6	4	4	3	7	4	6	1	4	7	3
Mie	2	2	5	3	7	7	2	1	4	2	3	3	1	4	2	2	0	0	2	1	1	3
Shiga	4	5	4	3	1	4	2	2	2	2	5	1	2	0	1	2	1	3	1	2	2	1
Kyoto	3	6	2	2	3	2	0	0	1	0	4	4	3	1	1	5	3	1	2	4	1	2
Osaka	8	8	9	14	15	7	15	8	9	7	10	7	6	9	7	8	6	3	5	11	5	5
Hyogo	2	6	5	3	3	6	7	9	4	9	1	5	4	2	5	5	4	8	1	2	0	1

Nara	1	1	2	2	2	1	1	2	3	3	2	0	1	0	0	0	1	1	0	0	0	1
Wakayama	1	3	2	2	0	1	2	0	2	3	2	1	0	2	1	1	1	0	0	0	0	0
Tottori	1	4	2	1	1	0	2	1	0	0	0	1	2	2	1	0	0	0	0	0	0	1
Shimane	1	0	1	1	1	3	0	0	2	2	0	1	0	1	0	0	3	0	1	0	0	0
Okayama	2	3	4	5	3	4	2	2	5	1	0	1	1	4	4	3	2	0	3	0	2	1
Hiroshima	7	3	2	1	8	3	8	3	4	2	4	4	1	9	2	2	4	1	4	2	1	1
Yamaguchi	3	5	3	1	2	4	3	7	0	2	4	3	2	2	1	2	0	2	2	2	0	2
Tokushima	2	0	1	3	1	0	1	5	3	2	0	0	2	1	0	1	1	1	1	1	0	1
Kagawa	1	0	5	3	1	3	5	1	1	1	1	5	0	2	1	2	0	1	2	1	2	2
Ehime	3	5	3	2	2	3	4	3	2	2	3	1	3	2	2	0	3	2	0	1	0	0
Kochi	0	3	1	0	1	0	1	0	2	1	1	2	0	0	0	1	0	1	0	0	0	1
Fukuoka	8	6	10	10	10	5	5	4	4	2	4	3	6	4	4	5	3	4	7	2	1	5
Saga	4	1	1	3	1	1	0	0	1	1	1	1	0	1	1	1	2	0	0	1	1	2
Nagasaki	1	0	3	3	2	0	1	0	0	0	0	0	1	0	2	0	0	0	3	0	0	1
Kumamoto	2	3	4	1	0	3	4	3	1	2	1	3	3	3	2	2	2	0	0	0	0	0
Oita	6	2	0	1	0	3	2	3	0	0	0	3	1	2	2	0	1	0	2	0	3	1
Miyazaki	3	2	0	1	2	0	1	1	3	0	2	0	0	0	2	1	1	1	2	0	0	1
Kagoshima	1	3	1	1	3	3	2	2	1	2	4	1	2	0	0	1	1	4	1	0	1	3
Okinawa	0	0	1	0	0	3	1	0	0	0	0	2	2	2	0	0	0	0	1	0	0	1
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74

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

Return to https://www.jisha.or.jp/english/statistics/2020e_industry.html

