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

commerce industry Code No.08

Type of accidents in commerce 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	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	53,922	fall from height
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	115,067	falling to same level
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	17,764	crash
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	18,069	struck by flying or falling object
collapse	326	317	358	328	355	365	373	368	314	316	334	301	295	310	321	332	284	326	323	353	316	318	331	7,564	collapse
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	12,893	crashed by
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	31,494	caught in/between
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	31,964	cut
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	470	injury to the sole of the foot
drown	1	3	1	2		1	1	1	2		2		115	2	2	1		2	4	2	5	4	2	153	drown
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	8,047	contact to high/low-temperature
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	827	contact to harmful substance
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	140	electric shock
explosion	15	8	7	9	7	6	10	6	11	11	5	4	9	8	7	2	4	8	4	3	6	4	9	163	explosion

burst	13	16	17	18	12	15	17	13	14	18	11	9	6	12	8	10	8	13	8	11	8	12	6	275	burst
fire	18	11	7	16	10	16	10	17	16	8	6	9	17	10	11	9	4	11	4	7	7	1	9	234	fire
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	43,524	traffic accident (public road)
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	386	traffic accident (others)
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	51,221	reaction to motion/improper motion
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	4,077	others
unclassifiable	50	40	60	62	46	48	46	51	50	47	31	31	32	42	26	19	34	32	29	25	30	23	15	869	unclassifiable
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	399,123	total

Causal agents (large) of fatal and non-fatal accidents in commerce 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	1,002	935	937	945	972	923	944	893	864	897	806	826	834	796	814	712	776	785	739	801	762	775	847	19,585	machine
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	83,014	crane, conveying machine
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	86,186	other equipment
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	113,614	temporary buildings, establishments
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	16,990	substance, material
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	35,267	load

environment	423	399	616	407	408	462	544	519	379	478	435	500	843	738	719	836	593	716	726	967	660	653	791	13,812	environment
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	30,655	others
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	399,123	total

Causal agents (middle) of fatal and non-fatal accidents in commerce 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	5	8	7	3	5	6	7	1	6	1	1	5	3	6	1	1	5	8	3	4	6	4	6	102	engine
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	544	power transmission 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	69	1,526	woodworking machine
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	1,684	construction machine
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	1,756	metal manufacturing machine
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	13,963	general machine
mobile silviculture machine																		1	1	1	4		3	10	mobile silviculture machine
crane	183	196	206	166	211	158	156	163	165	164	148	134	112	126	124	150	119	109	114	153	136	121	137	3,451	crane
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	28,371	conveying machine
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	51,192	vehicle
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	375	pressure vessel

chemical facilities	1	1	1			3	5	1	1					1	1	2	1	1	2		1	1	2	25	chemical facilities
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	155	welding equipment
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	450	kiln, caldron
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	684	electric equipment
human power machine, tools	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	2,313	39,730	human power 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	2,094	33,650	tools
other equipments, facilities	318	339	333	338	324	430	425	470	481	461	450	511	465	512	562	588	534	572	508	588	579	632	697	11,117	other equipments, facilities
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	113,614	temporary buildings, establishments
hazards, harmful substances	123	108	119	134	107	126	130	122	101	102	88	91	109	108	106	86	75	110	86	90	91	103	102	2,417	hazards, harmful substances
materials	829	771	763	756	719	797	722	712	687	633	540	550	539	597	547	580	535	574	551	559	513	532	567	14,573	materials
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	35,267	load
natural environment	423	399	616	407	408	462	544	519	379	478	435	500	843	738	719	836	593	716	726	967	660	653	791	13,812	natural environment
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	1,296	8,657	other causal agent
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	1,537	20,846	no causal agent
unclassifiable	89	56	74	78	66	69	67	62	68	60	53	45	47	33	37	39	39	23	36	38	27	22	24	1,152	unclassifiable
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	399,123	total

Causal agents (small) of fatal and non-fatal accidents in commerce 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			7		5		7	1	6	1	1	5	3	6	1	1	5	8	3	4	6	4	6	80	engine
power transmission mechanism			26		36		23	20	22	27	19	16	27	23	32	20	19	27	20	20	15	16	18	426	power transmission mechanism
circular sawing machine			36		47		48	39	33	44	38	29	35	44	23	28	28	28	29	32	24	33	41	659	circular sawing machine
band sawing machine			6		3		7	2	6	5	2	2	3	1	2	1	3	1	3	1	1	4	1	54	band sawing machine
wood planer machine			5		5		11	10	6	2	2	6	9	6	14	3	4	5	3	4	2	4	8	109	wood planer machine
hollow chisel mortiser, wood borer			1		2		1	1	1	2	2	1		1			2			2	1		2	19	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine					1			3	1		1		2	1	1	1	3	1		1			2	18	chamfering machine, router, woodworking milling machine
chain saw			4		4		3	4	5	5	4	2	8	4	4	9	6	4	5	5	5	6	6	93	chain saw
other woodworking machines			18		14		16	15	13	10	13	12	8	11	11	15	11	7	6	14	11	11	9	225	other woodworking machines
leveling, transporting or loading machine			21		19		24	18	19	21	17	18	20	17	17	17	22	17	14	19	10	13	19	342	leveling, transporting or loading machine
excavating machine			36		39		28	32	28	35	34	20	29	30	31	33	43	32	26	32	44	36	48	636	excavating machine
foundation work machine			3		1		1	1	1	1		3	1			1	1	1	2	1				18	foundation work machine
hardening machine			2		3			1	4	4	3	2	3	1	3	4	4	5	1	2	2	4	3	51	hardening machine

demolition machine			4		5		2	2	4	2		1	4	2	4	3	7	8	2	1	4	6	4	65	demolition machine
vehicle for high lift work			3		3		2	3	2	6	4	4	3	2	7	3	2	8	3	3	6	7	8	79	vehicle for high lift work
other construction machines			14		9		17	8	12	12	11	12	13	6	12	9	6	5	9	4	6	7	1	173	other construction machines
lathe			7		2		4	1	4	3	3	3	2	6		6	3	2	1	4	3	2	1	57	lathe
drill press, milling machine			4		8		10	5	3	7	6		5	3	2	1	2	4	2	2	3	2	1	70	drill press, milling machine
grinding machine, buffing machine			22		22		19	19	17	21	18	21	19	19	9	23	14	15	15	17	16	24	19	349	grinding machine, buffing machine
power press			6		5		3	7	4	3	5	3	7	8	8	3	3	5	8	10	7	10	4	109	power press
forging pressure hammer			2											1					2					5	forging pressure hammer
shearing machine			5		11		6	14	9	6	7	8	4	10	6	9	5	8	5	8	6	13	12	152	shearing machine
other metal manufacturing machines			45		48		28	41	39	37	36	31	19	28	31	20	21	33	38	36	28	27	36	622	other metal manufacturing machines
centrifugal machine			1		1		1	1		1			2					1		1	1		2	12	centrifugal machine
mixer, grinder			10		10		14	19	13	12	8	9	14	13	19	7	14	4	9	14	12	15	11	227	mixer, grinder
roll machine (except printingroll machine)			16		14		19	15	15	15	11	19	9	17	15	12	14	8	23	19	14	12	16	283	roll machine (except printingroll machine)
injection molding machine			1		1		1	2	1	1		1							1	2	2	2	3	18	injection molding machine
food manufacturing machine			359		372		359	345	345	391	336	384	382	319	336	293	329	331	318	333	317	298	306	6,453	food manufacturing machine
printing machine			9		10		13	4	8	2	2	3	2	4	1	1	5	4	2	1	3	2	4	80	printing machine
industrial robot			2		3		1	2	1	1	1			1			1			3		2	1	19	industrial robot
other general																									other general

power machines			262		269		276	258	242	220	222	211	201	212	225	189	199	212	188	205	209	215	252	4,267	power machines
felling machine																		1	1	1	2		1	6	felling machine
mobile logging machine																					1		1	2	mobile logging machine
skyline yarding machine																							1	1	skyline yarding machine
other mobile silviculture machine																					1			1	other mobile silviculture machine
crane			56		70		47	43	43	46	30	32	37	35	41	52	25	29	37	57	40	32	32	784	crane
mobile crane			75		71		56	49	57	61	62	57	32	35	42	50	52	48	29	33	37	48	45	939	mobile crane
derrick crane																									derrick crane
elevator, lift			57		62		44	47	56	44	50	33	32	37	33	40	33	30	39	44	46	33	41	801	elevator, lift
cargo lifting appliance			1												1				1	2	1		2	8	cargo lifting appliance
gondola			1					1		1	1									1			1	6	gondola
lumberyard equipment, logging cableway			3											2			1						2	8	lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane			13		8		9	23	9	12	5	12	11	17	7	8	8	2	8	16	12	8	14	202	other powered crane
truck			884		902		819	807	800	743	671	688	692	729	680	723	714	722	722	736	760	771	759	14,322	truck
forklift			358		369		366	363	385	360	293	274	308	284	276	282	278	333	321	299	354	315	343	6,161	forklift
railway equipment							1			1					1			1		2		1		7	railway equipment
conveyor			74		74		85	85	81	68	65	62	53	71	73	85	76	69	52	55	76	49	58	1,311	conveyor
loader			8		8		6	10	5	2	2	1	3	2	2	3	4	6	3	4	2	6	4	81	loader
straddle carrier								1			1					1			1	1			1	6	straddle carrier

rough terrain hauler			2				1	1	1	2	3	3	1		2		3	3	1	1	1		2	27	rough terrain hauler
other powered conveying machines			50		60		57	52	56	47	29	49	47	48	37	37	46	49	53	51	47	51	52	918	other powered conveying machines
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	2,084	40,260	cars, bus, motorcycle
railway vehicle			6		3		2	2	2	4	3	3	8	1		2	4	3	4	2	3	2	2	56	railway vehicle
other vehicles			146		152		119	92	94	87	77	89	89	112	81	49	47	45	53	30	30	34	37	1,463	other vehicles
boiler			1		1		1	1	4	4	2				1	1			1	1	2			20	boiler
pressure vessel			5		4		1	2	1	2	2	1		2		1		3	2	2	3	1	2	34	pressure vessel
other pressure vessels			25		20		12	13	16	10	13	10	13	16	12	13	10	12	10	5	6	6	20	242	other pressure vessels
chemical facilities			1				5	1	1					1	1	2	1	1	2		1	1	2	20	chemical facilities
gas welding equipment			4		7		4	2	3	8	6	7	2	3	5	2	2	3	1	3	8	1	5	76	gas welding equipment
arc welding equipment			1		2			2		1	2	2	1		2	1	5	1	3	2	4	2	3	34	arc welding equipment
other welding equipment					1			1		5			2		1		1	1			1		1	14	other welding equipment
kiln, caldron			5		13		19	17	11	26	16	17	15	12	18	11	13	12	17	33	25	22	17	319	kiln, caldron
industrial dryer							1	3	1	2	1		3	1	2	2	2		3		1	2	1	25	industrial dryer
other kiln, caldron			3		1		1	3	1	3	2	1	4	2	3	8	8	4	1	2	2	1	3	53	other kiln, caldron
transmission			7		5		8	7	16	17	12	12	14	11	18	15	20	12	28	23	24	20	28	297	transmission
electric power facilities			1		3		3	3	1	4		4	5	1	1	4	2			2	4	4	4	46	electric power facilities
other electrical equipment			7		19		8	7	14	17	7	4	9	9	17	17	13	5	13	16	16	20	20	238	other electrical equipment
human power cranes			13		8		16	14	9	6	3	5	7	6	2	8	6	2	7	15	86	162	281	656	human power cranes
human power																									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	18,452	hauling equipment
human power machine			18		7		16	13	19	12	7	17	10	14	20	15	9	13	14	15	18	14	15	266	human power machine
hand tool			743		820		833	858	838	785	742	702	748	736	735	723	742	727	718	699	710	828	818	14,505	hand tool
ladder			577		612		680	667	691	709	682	691	719	786	740	790	796	837	852	964	1,032	1,011	1,008	14,844	ladder
slinging tool			24		26		26	29	19	24	17	22	23	18	28	7	21	27	23	23	16	14	19	406	slinging tool
other tools			479		602		593	691	622	689	607	590	648	654	713	738	703	749	897	917	968	957	1,067	13,884	other tools
other equipment, facilities			333		324		425	470	481	461	450	511	465	512	562	588	534	572	508	588	579	632	697	9,692	other equipment, facilities
scaffolding			23		32		29	28	26	20	21	10	17	17	19	13	15	16	23	25	22	10	13	379	scaffolding
timbering							2		1	3		1			1				1				3	12	timbering
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	20,803	stairs, landing stage
opening			48		46		30	30	45	31	50	44	31	38	42	52	49	28	50	53	54	45	51	817	opening
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	757	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			490		568		487	533	528	544	484	560	508	562	510	537	610	565	619	645	667	577	538	10,532	working platform, boot board
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	45,294	passage
building, establishment			517		527		527	529	533	507	526	561	615	565	541	487	559	543	567	626	508	633	579	10,450	building, establishment
other temporary buildings, establishments			355		439		388	381	325	378	373	391	378	381	340	450	489	485	434	444	527	571	511	8,040	other temporary buildings, establishments
explosive substance			2		3			1	2	3		3			4			2		1	1	1	2	25	explosive substance
inflammable substance			30		18		19	21	25	27	18	25	16	28	21	19	11	8	14	17	12	9	17	355	inflammable substance
inflammable gas			14		16		15	12	11	11	8	5	18	7	8	7	1	16	4	7	6	9	8	183	inflammable gas

harmful substance			15		11		19	16	10	17	12	17	21	11	13	11	10	20	11	11	11	17	9	262	harmful substance
radiation					1			1									1							3	radiation
other hazards, harmful substances			58		58		77	71	53	44	50	41	54	62	60	49	52	64	57	54	61	67	66	1,098	other hazards, harmful substances
metal material			323		288		301	300	273	251	189	222	196	240	216	243	203	228	240	245	215	217	239	4,629	metal material
lumber, bamboo			131		111		137	116	91	94	85	78	85	93	87	71	91	105	78	85	74	81	82	1,775	lumber, bamboo
stone, sand, substance			52		43		33	39	39	42	18	29	27	26	26	24	25	22	37	19	31	33	21	586	stone, sand, substance
other materials			257		277		251	257	284	246	248	221	231	238	218	242	216	219	196	210	193	201	225	4,430	other materials
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	28,190	load
machine/equipment as load			95		69		80	82	80	91	66	62	58	79	62	69	63	51	52	57	68	68	62	1,314	machine/equipment as load
natural ground, rock			50		29		49	32	27	28	20	22	23	25	22	23	26	26	26	23	32	28	12	523	natural ground, rock
standing tree			12		11		8	12	12	7	11	14	16	11	6	16	20	13	9	11	9	15	12	225	standing tree
water			24		22		25	24	28	23	21	26	215	24	28	30	15	23	18	31	30	28	26	661	water
abnormal environment			9		1		7	2		2	2	7	6	10	2	2	2	4	2	5	2		1	66	abnormal environment
high/cold temperature environment			112		41		38	58	51	63	43	72	86	87	96	79	70	73	71	168	142	114	108	1,572	high/cold temperature environment
other environments			409		304		417	391	261	355	338	359	497	581	565	686	460	577	600	729	445	468	632	9,074	other environments
other causal agent			344		350		356	346	331	283	240	271	323	319	288	349	343	253	381	340	363	444	1,296	7,220	other causal agent
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	18,108	no causal agent
unclassifiable			74		66		67	62	68	60	53	45	47	33	37	39	39	23	36	38	27	22	24	860	unclassifiable
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	22,408	335,506	total

Workers age of fatal and non-fatal accidents in commerce 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	722	690	751	721	726	617	633	570	532	515	433	373	406	420	434	406	449	409	428	487	455	486	532	12,195	19 years old or less
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	60,751	20-29
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	2,552	62,786	30-39
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	4,049	76,983	40-49
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	5,660	105,156	50-59
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	6,869	81,252	60 years old or more
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	399,123	total

Workers' number of workplace of fatal and non-fatal accidents in commerce 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	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	3,897	83,728	9 workers or less
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	6,687	117,191	10-29
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	3,181	57,555	30-49
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	3,495	58,004	50-99
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	3,779	56,801	100-299
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	1,369	25,844	300 workers or more
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	399,123	total

Month of fatal and non-fatal accidents in commerce 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	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	2,250	37,006	January

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	1,767	33,513	February
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	1,811	34,261	March
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	1,713	31,837	April
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	1,787	32,548	May
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	33,407	June
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	35,102	July
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	33,489	August
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	31,896	September
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	32,880	October
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	30,557	November
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	32,627	December
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	399,123	total

Prefecture of fatal and non-fatal accidents in commerce 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	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	19,326	Hokkaido
Aomori	204	160	201		178		186	209	204	195	200	177	181	200	203	202	163	198	230	211	203	213	237	4,155	Aomori
Iwate	140	158	182		165		166	152	139	167	151	145	254	185	199	172	154	181	181	173	191	190	190	3,635	Iwate
Miyagi	322	299	323		395		416	453	392	442	333	363	529	451	416	438	378	438	376	467	436	413	504	8,584	Miyagi
Akita	146	174	142		122		153	151	163	157	139	167	176	186	160	156	149	175	146	199	194	196	192	3,443	Akita
Yamagata	156	171	168		132		163	152	144	159	150	141	151	156	186	168	156	167	184	210	178	184	232	3,508	Yamagata
Fukushima	274	230	232		248		274	259	257	266	233	233	221	262	272	271	250	253	268	286	276	299	346	5,510	Fukushima
Ibaraki	366	359	361		378		329	391	389	359	313	321	349	358	346	383	379	419	378	415	407	448	483	7,931	Ibaraki
Tochigi	257	245	248		239		260	218	231	287	232	242	237	247	234	264	246	262	283	287	309	325	308	5,461	Tochigi
Gunma	276	244	297		281		292	293	261	263	249	273	274	264	301	313	298	330	315	325	347	376	374	6,246	Gunma
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	18,392	Saitama
Chiba	650	647	750		797		683	754	741	751	730	678	737	786	710	754	746	789	775	881	921	923	992	16,195	Chiba

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	33,418	Tokyo
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	22,872	Kanagawa
Niigata	342	356	349		328		344	331	354	322	284	304	364	378	392	325	343	318	387	449	390	372	497	7,529	Niigata
Toyama	149	133	164		126		185	161	136	127	137	134	174	167	155	180	171	163	210	177	160	166	200	3,375	Toyama
Ishikawa	167	150	166		138		156	155	171	131	161	147	168	150	149	160	139	147	156	190	195	169	219	3,384	Ishikawa
Fukui	119	104	113		98		100	112	113	99	99	119	121	113	108	112	93	109	109	161	129	143	145	2,419	Fukui
Yamanashi	66	54	78		99		115	97	102	105	93	92	92	80	95	107	104	112	107	119	118	108	147	2,090	Yamanashi
Nagano	213	202	238		259		250	246	254	226	246	247	263	268	278	280	308	274	338	323	342	368	341	5,764	Nagano
Gifu	192	208	232		234		265	274	249	221	217	263	224	240	225	239	217	273	293	297	285	322	317	5,287	Gifu
Shizuoka	507	540	527		559		500	548	570	499	533	505	543	512	521	530	544	546	566	603	627	602	690	11,572	Shizuoka
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	1,245	20,320	Aichi
Mie	270	255	276		259		269	289	267	280	250	284	284	310	269	273	265	273	323	309	302	357	318	5,982	Mie
Shiga	132	138	131		138		169	184	166	175	163	169	168	194	170	147	176	187	199	195	200	204	202	3,607	Shiga
Kyoto	279	409	328		375		395	350	369	351	326	335	375	363	361	345	339	336	331	363	358	369	397	7,454	Kyoto
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	1,671	26,403	Osaka
Hyogo	643	590	618		687		715	645	670	647	592	681	655	684	649	694	696	724	732	781	758	798	884	14,543	Hyogo
Nara	155	138	136		180		213	172	182	231	234	225	213	195	211	197	203	215	213	235	208	228	260	4,244	Nara
Wakayama	124	129	140		147		168	145	142	156	136	123	135	114	117	139	108	109	110	151	169	143	179	2,884	Wakayama
Tottori	74	81	87		85		86	76	74	78	63	70	88	65	70	75	72	63	82	91	74	84	76	1,614	Tottori
Shimane	108	101	97		113		88	88	76	100	84	77	83	100	117	77	93	87	110	116	111	95	127	2,048	Shimane
Okayama	200	210	225		240		289	258	261	271	228	244	242	266	263	228	265	234	285	287	261	298	293	5,348	Okayama
Hiroshima	416	387	407		400		443	416	435	388	414	387	415	399	411	385	439	408	454	445	428	465	533	8,875	Hiroshima
Yamaguchi	224	200	206		217		252	236	199	223	211	227	223	228	192	181	196	195	228	234	209	240	273	4,594	Yamaguchi
Tokushima	109	83	124		93		120	92	93	95	82	84	80	94	88	91	83	87	112	96	102	131	125	2,064	Tokushima
Kagawa	170	188	175		169		188	174	163	160	164	190	151	202	161	151	167	155	187	169	195	191	212	3,682	Kagawa
Ehime	150	183	175		198		193	182	176	182	142	148	181	189	189	175	185	183	189	233	182	211	269	3,915	Ehime
Kochi	165	158	160		167		132	134	93	109	111	123	138	130	104	121	110	117	120	112	120	144	127	2,695	Kochi

Fukuoka	785	773	777		779		853	808	782	776	786	783	805	882	798	928	948	1,012	937	993	970	998	1,166	18,339	Fukuoka
Saga	153	115	101		118		117	126	130	126	116	121	107	124	124	150	156	141	133	215	161	180	195	2,909	Saga
Nagasaki	172	162	159		200		174	181	176	179	191	204	172	188	189	212	187	211	232	207	229	253	246	4,124	Nagasaki
Kumamoto	228	271	264		248		241	272	250	247	227	250	282	240	255	254	240	283	275	277	254	281	319	5,458	Kumamoto
Oita	173	125	148		155		178	142	173	162	148	159	136	140	171	173	190	181	168	162	199	187	200	3,470	Oita
Miyazaki	163	175	166		176		164	172	168	173	155	137	165	138	155	155	179	177	184	170	221	215	209	3,617	Miyazaki
Kagoshima	188	195	184		218		206	194	187	251	192	204	205	205	232	261	224	258	251	268	280	269	280	4,752	Kagoshima
Okinawa	99	105	139		117		121	141	133	142	127	126	155	167	158	135	146	190	166	182	207	200	246	3,202	Okinawa
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	22,408	366,239	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 commerce in Japan in 1999-2021

commerce industry Code No.08

Type of fatal accidents in commerce 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	12	19	16	24	14	18	16	21	14	16	21	23	21	9	12	13	17	11	19	9	11	9	14	359	fall from height
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	77	falling to same level
crash	1				2		1			3	1			1			3	1	1			2		16	crash
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	64	struck by flying or falling object
collapse	7	4	3	6	3		4	5	3		6	2	4	3	5	2	3	2	1	1	1		2	67	collapse

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	84	crashed by
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	caught in/between
cut									2	1														3	cut
injury to the sole of the foot																									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	140	drown
contact to high/low-temperature			1				3			1		3	3		4	1	1	1	1	2	1	3	3	28	contact to high/low-temperature
contact to harmful substance	1		3	1						1	2	2			1		1			1	2		1	16	contact to harmful substance
electric shock			1		1							1				1	1		1	1			1	8	electric shock
explosion	1				1				1				1	4				1					1	10	explosion
burst	1		1				2					1			1	2		1		1				10	burst
fire	1	6	1		2	3	1				4		4		1	2	1		1				1	28	fire
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	1,596	traffic accident (public road)
traffic accident (others)	2	4	1	2	2		1	2			1		1											16	traffic accident (others)
reaction to motion/improper motion																									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	211	others
unclassifiable				1	1	1			1	3	1	1	1			1								11	unclassifiable
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74	72	2,973	total

Causal agents (large) of fatal accidents in commerce 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	4	3	8	1	5	4	2	2	6	2	6	7	4	3	3	3	5	4	2	1	4	5	4	88	machine
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	1,953	crane, conveying machine
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	166	other equipment
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	218	temporary buildings, establishments
substance, material	6	7	6	5	3	1	2	1	2	1	4	1	3	3	4	3	5	2		1	1		5	66	substance, material
load	2	2	2	4	2	6	2	3	3	1	5	2	3	6	2	4	1	1	2	1	2	1	1	58	load
environment	1	4	2	2		2	7	6	2	2	2	6	198	3	6	1	3	2	4	4	4	5	4	270	environment

others	2	3	4	5	4	13	10	1	7	7	9	8	4	9	8	12	8	3	14	6	2	6	9	154	others
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74	72	2,973	total

Causal agents (middle) of fatal accidents in commerce 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									2															2	woodworking machine
construction machine			3		3	1	1	1	4			4	3	1	1	3	4	3		1		3		36	construction machine
metal manufacturing machine					1						1	1			1									4	metal manufacturing machine
general machine	4	3	5	1	1	3	1	1		2	5	2	1	2	1		1	1	2		4	2	4	46	general machine
mobile silviculture machine																									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	83	crane
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	644	conveying machine
vehicle	93	105	89	67	76	68	82	68	50	49	44	47	41	51	35	42	36	44	24	33	30	35	17	1,226	vehicle
pressure vessel							1													1				2	pressure vessel
chemical facilities																									chemical facilities
welding equipment																							1	1	welding equipment
kiln, caldron				1																			1	2	kiln, caldron
electric equipment					1			1								1	1						1	5	electric equipment
human power machine, tools	2	3		3	2	2	2	4		3		4		1	2		1	1	2	1	2			35	human power machine, tools
tools	2	3	9	3	3	5	4	5	2	4	5	7	4	2	3	6	5	4	5	2	4	3	2	92	tools
other equipments, facilities	2	2		3	1	1		1	1	1	2	1	2	1	2	2	2		2	1		1	1	29	other equipments, facilities
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	218	temporary buildings, establishments
hazards, harmful substances	2	6	2	1	2				1	1	2	1	2	3	2		2	1		1	1		2	32	hazards, harmful substances
materials	4	1	4	4	1	1	2	1	1		2		1		2	3	3	1					3	34	materials
load	2	2	2	4	2	6	2	3	3	1	5	2	3	6	2	4	1	1	2	1	2	1	1	58	load

natural environment	1	4	2	2		2	7	6	2	2	2	6	198	3	6	1	3	2	4	4	4	5	4	270	natural environment
other causal agent	2	1	2	2	3	6	3	1	2	1						4				1		3	8	39	other causal agent
no causal agent		1	2	2		6	5		4	3	8	7	4	8	8	7	8	3	14	5	2	3	1	101	no causal agent
unclassifiable		1		1	1	1	2		1	3	1	1		1		1								14	unclassifiable
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74	72	2,973	total

Causal agents (small) of fatal accidents in commerce 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									1															1	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			2		1			1	2			1	2	1		2	1	1		1		1		16	leveling, transporting or loading machine
excavating machine					1	1			1			2	1			1	2							9	excavating machine
foundation work machine																									foundation work machine
hardening machine																									hardening machine

demolition machine			1															1				2		4	demolition machine
vehicle for high lift work					1													1						2	vehicle for high lift work
other construction machines							1		1			1			1		1							5	other construction machines
lathe																									lathe
drill press, milling machine																									drill press, milling machine
grinding machine, buffing machine																									grinding machine, buffing machine
power press											1													1	power press
forging pressure hammer																									forging pressure hammer
shearing machine												1												1	shearing machine
other metal manufacturing machines					1										1									2	other metal manufacturing machines
centrifugal machine																									centrifugal machine
mixer, grinder	1			1																	1			3	mixer, grinder
roll machine (except printingroll machine)																									roll machine (except printingroll machine)
injection molding machine																									injection molding machine
food manufacturing machine												1												1	food manufacturing machine
printing machine																									printing machine
industrial robot								1																1	industrial robot
other general power machines	3	3	5		1	3	1			2	5	1	1	2	1		1	1	2		3	2	4	41	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
crane	1		1	1		1	1		2												1			8	crane
mobile crane	2	2	3	1	3	1	2	2	1	3	3	1		1	2		1		1	2		1	1	33	mobile crane
derrick crane																									derrick crane
elevator, lift	2	2	2	2	3	1	2		4		1	2	3	1		2	2	2	1	2			1	35	elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane	1	1		2				2		1														7	other powered crane
truck	39	42	36	25	36	22	33	32	32	26	21	13	13	24	15	18	16	12	17	12	7	6	9	506	truck
forklift	6	8	4	10	6	6	6	8	7	6	1	1	5	7	4	2	1	5	3	4	2	3	6	111	forklift
railway equipment																									railway equipment
conveyor							1		1			1												3	conveyor
loader	1				1		1																	3	loader
straddle carrier								1																1	straddle carrier
rough terrain hauler		1										1						1						3	rough terrain hauler
other powered conveying machines	1		1		2	3		1		1	2			1				2	1	1	1			17	other powered conveying machines
cars, bus, motorcycle	88	100	84	63	75	68	80	65	50	48	42	47	40	50	34	42	36	44	23	33	29	35	17	1,193	cars, bus, motorcycle
railway vehicle	1	3	1				1	2		1	1		1								1			12	railway vehicle
other vehicles	4	2	4	4	1		1	1			1			1	1				1					21	other vehicles
boiler																									boiler
pressure vessel							1																	1	pressure vessel
other pressure vessels																				1				1	other pressure vessels
chemical facilities																									chemical facilities

gas welding equipment																									gas welding equipment
arc welding equipment																									arc welding equipment
other welding equipment																							1	1	other welding equipment
kiln, caldron				1																				1	kiln, caldron
industrial dryer																							1	1	industrial dryer
other kiln, caldron																									other kiln, caldron
transmission																									transmission
electric power facilities					1			1								1	1						1	5	electric power facilities
other electrical equipment																									other electrical equipment
human power cranes					1			1									1	1			1			5	human power cranes
human power hauling equipment	1	2		2	1	2	2	3		2		4		1	2				2	1	1			26	human power hauling equipment
human power machine		1																						1	human power machine
hand tool	1			1						1														3	hand tool
ladder	1	3	5	2	2	4	3	4	2	2	4	6	4	2	3	2	5	2	4	2	3	2	2	69	ladder
slinging tool	1		3	1	1			1		2								1	1					11	slinging tool
other tools			1			1	1				1	1				4		1			1	1		12	other tools
other equipment, facilities	2	2		3	1	1		1	1	1	2	1	2	1	2	2	2		2	1		1	1	29	other equipment, facilities
scaffolding								1								1								2	scaffolding
timbering																									timbering
stairs, landing stage	2			1	3		4	1	2	3	4	6	2	2		2		1	3	2	2	3	1	44	stairs, landing stage
opening	1	1				3	1	1		1	3		1	1			1		1	1			2	18	opening
roof, beam, haze, crossbeam, principal rafter	1	1	4	2		1	4	1	2	2		2	3	1	3	1		1	4		1	1	1	36	roof, beam, haze, crossbeam, principal rafter
working platform, boot board	1	1	2		1		1	2		2		2			1				1		1	1	1	17	working platform, boot board
passage		1	1	1	1	2	1	3	1		1	1	2		2		2	3	1	1	1	3	1	29	passage
building, establishment	5	3	2	7	4	1	3	4	4	3	2	3	6		1		2	4	2	2			3	61	building, establishment

other temporary buildings, establishments			1		1	2						2				3			2					11	other temporary buildings, establishments
explosive substance					1																			1	explosive substance
inflammable substance	1	6			1				1	1	2		1	1	1		1	1					1	18	inflammable substance
inflammable gas			1										1	2						1				5	inflammable gas
harmful substance	1			1								1			1									4	harmful substance
radiation																									radiation
other hazards, harmful substances			1														1				1		1	4	other hazards, harmful substances
metal material	3	1	2	2	1	1	2	1	1				1		2	1	1						3	22	metal material
lumber, bamboo				1													2	1						4	lumber, bamboo
stone, sand, substance	1		1																					2	stone, sand, substance
other materials			1	1							2					2								6	other materials
load	2	1	2	4	2	4	2	2	2	1	5	2	1	6	2	3	1	1	2	1	2	1	1	50	load
machine/equipment as load		1				2		1	1				2			1								8	machine/equipment as load
natural ground, rock	1						1	2			1	1	1								1			8	natural ground, rock
standing tree						1		1						1			2							5	standing tree
water		2				1			2		1		191	2	2				4		1	2		208	water
abnormal environment			1									1									1			3	abnormal environment
high/cold temperature environment			1				3			1		3	2		4		1	1		2	1	2	3	24	high/cold temperature environment
other environments		2		2			3	3		1		1	4			1		1		2		1	1	22	other environments
other causal agent	2	1	2	2	3	6	3	1	2	1						4				1		3	8	39	other causal agent
no causal agent		1	2	2		6	5		4	3	8	7	4	8	8	7	8	3	14	5	2	3	1	101	no causal agent
unclassifiable		1		1	1	1	2		1	3	1	1		1		1								14	unclassifiable
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74	72	2,973	total

Workers age of fatal accidents in commerce 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	9	1	4	4	3	5	1	3			6	2	2	1	1		1	4				62	19 years old or less
20-29	41	40	38	23	33	16	23	22	20	18	13	17	27	13	11	13	6	10	7	3	5	6	3	408	20-29
30-39	25	39	26	30	23	24	26	17	20	15	7	17	59	19	6	11	11	15	11	6	4	6	8	425	30-39
40-49	21	27	25	22	26	22	31	22	16	13	22	16	64	21	25	15	12	19	16	12	14	6	16	483	40-49
50-59	30	39	47	38	38	44	53	36	40	28	30	30	67	25	21	22	21	15	21	19	16	20	13	713	50-59
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	32	882	60 years old or more
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74	72	2,973	total

Workers' number of workplace of fatal accidents in commerce 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	62	72	72	45	44	43	64	51	53	44	40	40	135	38	25	35	25	35	34	24	16	33	23	1,053	9 workers or less
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	1,113	10-29
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	443	30-49
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	220	50-99
100-299	7	9	9	3	4	6	8	3	5	3	2	8	10	6	6	5	6		3	5	2	3	2	115	100-299
300 workers or more	1		1	1	1	4		3	2	1	2	2	4	1			2		1	1	1		1	29	300 workers or more
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74	72	2,973	total

Month of fatal accidents in commerce 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	12	21	11	11	12	14	14	13	10	5	14	15	10	12	9	15	6	9	11	6	8	8	5	251	January
February	19	16	21	15	17	14	17	12	7	11	11	9	8	8	11	11	10	6	9	12	6	9	4	263	February
March	16	15	16	17	16	14	12	10	14	8	12	10	204	11	5	9	9	5	11	5	2	7	5	433	March

April	16	11	12	12	12	15	12	14	13	8	9	8	9	6	10	4	8	6	6	8	4	5	2	210	April
May	14	11	14	7	14	6	12	8	9	12	7	3	7	7	4	3	10	5	8	5	12	4	7	189	May
June	19	21	17	12	18	6	22	14	8	10	5	7	16	14	9	9	5	7	5	4	5	7	4	244	June
July	13	16	12	16	12	7	16	13	10	10	15	20	11	5	14	6	10	5	8	6	3	6	13	247	July
August	9	18	16	8	11	11	16	16	6	12	7	9	6	9	9	10	9	9	9	6	4	4	14	228	August
September	21	13	10	9	9	13	12	14	14	9	5	13	6	14	3	12	4	7	6	9	1	6	4	214	September
October	14	16	21	10	14	14	12	11	18	5	11	6	1	10	5	9	7	10	9	6	4	6	6	225	October
November	12	14	12	13	11	15	8	16	12	16	8	7	5	9	6	5	8	10	3	6	12	6	2	216	November
December	12	23	15	16	12	16	19	10	8	12	11	11	11	12	8	10	6	13	7	5	4	6	6	253	December
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74	72	2,973	total

Prefecture of fatal accidents in commerce 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	9	12	14	7	8	8	7	14	7	7	3	8	8	8	6	11	4	4	9	7	3	4	8	176	Hokkaido
Aomori	3		4	2	2	1	3	3	1	2	3	1	2	1	1	1	2	4	1	1	3	1		42	Aomori
Iwate	5	2	4	1	2	1	1	1	2	1		3	81	3	3	4	1	2	1			1	1	120	Iwate
Miyagi	5	1	4	2	1		4	3	1	2	3	2	110	1	1	3	2	1	5	2		1	3	157	Miyagi
Akita	3	3		1	4	2	1	2			2	2	4		1	1		3			2			31	Akita
Yamagata	2	4	1				1	1	1	3	2		3	2	2	1	1		2	1				27	Yamagata
Fukushima	6	6	5	1	2	2	5	3	4	2	1	2	8	4	1	2	4	5	5	1	1	2		72	Fukushima
Ibaraki	7	4	8	7	3	2	4	9	3	1	3	4		6	8	4	5	3		3	2	2	3	91	Ibaraki
Tochigi	2	12	4	3	4	1	4	8	2	5	1	3		5	3	1	1	4	3	2	3	2	2	75	Tochigi
Gunma	5	2		4		3	4	2	2	3	6	1		4		3	1	1	1		3	2		47	Gunma
Saitama	5	8	8	8	8	15	7	5	7	6	4	7	7	2	8	2	4	4	1	3	3		2	124	Saitama
Chiba	12	10	9	1	3	6	6	6	6	9	6	6	3	2	3	3	2	3	4	1	4	2	2	109	Chiba
Tokyo	7	9	11	8	8	7	9	9	11	6	3	9	4	9	2	2	8	3	7	7	3	4	8	154	Tokyo
Kanagawa	5	10	6	7	9	5	8	3	3	3	6	5	3	3	2	1	4	3	3	4	1	1	3	98	Kanagawa

Niigata	5	4	5	3	7	3	4	1	4	2	2	1	2	2	1	2	1	2		1		2	2	56	Niigata
Toyama	1	3	2		1	2	1	1		3	1		2	1	1		2	2		1	1	2	2	29	Toyama
Ishikawa	4	1	1	2	2	1		1	4	3	4	1		1		1	1	2	2				2	33	Ishikawa
Fukui	3	2			2	1	1		1	1	1		2	1	3		1				2		1	22	Fukui
Yamanashi		1		1	2		2	2			2	1	2			1	2	1				1		18	Yamanashi
Nagano	4	7	2	4	3	4	5	2	2	1	3		2		1	1	1	1	3	1	2	3		52	Nagano
Gifu	3	5	3	3	2	5	1		3	3	2	2	2	3	2	3	1	2		4	3	2	1	55	Gifu
Shizuoka	6	8	4	6	5	3	9	7	4	2	1	2	2	2		5	1	3	4	5	2	3	1	85	Shizuoka
Aichi	9	10	11	9	11	7	14	11	7	7	4	6	4	4	3	7	4	6	1	4	7	3	2	151	Aichi
Mie	2	2	5	3	7	7	2	1	4	2	3	3	1	4	2	2			2	1	1	3	2	59	Mie
Shiga	4	5	4	3	1	4	2	2	2	2	5	1	2		1	2	1	3	1	2	2	1	1	51	Shiga
Kyoto	3	6	2	2	3	2			1		4	4	3	1	1	5	3	1	2	4	1	2	2	52	Kyoto
Osaka	8	8	9	14	15	7	15	8	9	7	10	7	6	9	7	8	6	3	5	11	5	5	7	189	Osaka
Hyogo	2	6	5	3	3	6	7	9	4	9	1	5	4	2	5	5	4	8	1	2		1	3	95	Hyogo
Nara	1	1	2	2	2	1	1	2	3	3	2		1				1	1				1	1	25	Nara
Wakayama	1	3	2	2		1	2		2	3	2	1		2	1	1	1							24	Wakayama
Tottori	1	4	2	1	1		2	1				1	2	2	1							1		19	Tottori
Shimane	1		1	1	1	3			2	2		1		1			3		1				2	19	Shimane
Okayama	2	3	4	5	3	4	2	2	5	1		1	1	4	4	3	2		3		2	1		52	Okayama
Hiroshima	7	3	2	1	8	3	8	3	4	2	4	4	1	9	2	2	4	1	4	2	1	1	1	77	Hiroshima
Yamaguchi	3	5	3	1	2	4	3	7		2	4	3	2	2	1	2		2	2	2		2		52	Yamaguchi
Tokushima	2		1	3	1		1	5	3	2			2	1		1	1	1	1	1		1	1	28	Tokushima
Kagawa	1		5	3	1	3	5	1	1	1	1	5		2	1	2		1	2	1	2	2	1	41	Kagawa
Ehime	3	5	3	2	2	3	4	3	2	2	3	1	3	2	2		3	2		1			3	49	Ehime
Kochi		3	1		1		1		2	1	1	2				1		1				1		15	Kochi
Fukuoka	8	6	10	10	10	5	5	4	4	2	4	3	6	4	4	5	3	4	7	2	1	5	1	113	Fukuoka
Saga	4	1	1	3	1	1			1	1	1	1		1	1	1	2			1	1	2		24	Saga

Nagasaki	1		3	3	2		1						1		2				3			1		17	Nagasaki
Kumamoto	2	3	4	1		3	4	3	1	2	1	3	3	3	2	2	2						1	40	Kumamoto
Oita	6	2		1		3	2	3				3	1	2	2		1		2		3	1		32	Oita
Miyazaki	3	2		1	2		1	1	3		2				2	1	1	1	2			1	1	24	Miyazaki
Kagoshima	1	3	1	1	3	3	2	2	1	2	4	1	2			1	1	4	1		1	3	2	39	Kagoshima
Okinawa			1			3	1					2	2	2					1			1		13	Okinawa
total	177	195	177	146	158	145	172	151	129	118	115	118	294	117	93	103	92	92	92	78	65	74	72	2,973	total

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

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