

contact to harmful substance	1	2	2	3	1	3	4		1	2	6	1	5			6	2	5	4	4	1	7	4	64	harmful substance
electric shock			1	3		1				1				1	2	1		1		2	1	2		16	electric shock
explosion	3		1	1	1		1			2				1		1	1							12	explosion
burst			3	2			2			2	1					1	1			1		1		14	burst
fire	1			1	2				1	1		1	4	1		2		2		1	1			18	fire
traffic accident (public road)	64	64	63	46	71	61	79	73	67	70	88	75	86	69	78	75	95	79	78	79	96	61	69	1,686	traffic accident (public road)
traffic accident (others)				2	1		1	2	3	2		2				1	1		2	2		1	1	21	traffic accident (others)
reaction to motion/improper motion	92	82	86	101	94	85	100	105	106	112	116	119	116	121	104	111	128	123	129	150	137	167	166	2,650	reaction to motion/improper motion
others	9	11	6	7	7	9	5	11	6	5	10	7	11	9	8	11	12	7	12	13	10	26	170	382	others
unclassifiable	3	3		7	6	7	3	2		3	2	1	2	4	2	2	2	6	1	1	3	2	3	65	unclassifiable
total	906	892	828	875	919	863	927	991	916	1,003	956	949	991	982	911	997	1,000	1,060	997	1,168	1,174	1,142	1,373	22,820	total

Causal agents (large) of fatal and non-fatal accidents in other 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	83	86	70	90	87	70	92	79	72	83	61	58	77	57	61	54	65	72	61	81	68	82	85	1,694	machine
crane, conveying machine	231	235	226	206	251	214	232	220	224	235	233	223	220	216	201	204	227	225	218	209	245	199	216	5,110	crane, conveying machine

																									machine
other equipment	156	141	126	129	141	144	155	185	156	181	170	197	184	173	179	182	173	191	178	232	224	228	229	4,054	other equipment
temporary buildings, establishments	208	214	195	217	230	211	239	262	259	288	254	261	269	289	268	308	287	341	331	385	389	372	419	6,496	temporary buildings, establishments
substance, material	76	70	71	83	66	82	60	71	64	59	68	53	63	70	58	65	62	67	59	52	53	46	55	1,473	substance, material
load	60	62	69	50	56	60	66	73	57	77	67	56	55	69	44	67	59	58	45	58	66	64	67	1,405	load
environment	25	25	26	25	24	21	27	38	20	24	19	31	57	36	37	52	38	36	29	57	37	39	50	773	environment
others	67	59	45	75	64	61	56	63	64	56	84	70	66	72	63	65	89	70	76	94	92	112	252	1,815	others
total	906	892	828	875	919	863	927	991	916	1,003	956	949	991	982	911	997	1,000	1,060	997	1,168	1,174	1,142	1,373	22,820	total

Causal agents (middle) of fatal and non-fatal accidents in other 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		2			1	1	2			1		1						1	1	1	1		1	13	engine
power transmission mechanism	6	2	1	2	8		2	3	2	2	1		1		4	4	4		2	2	1	4		51	power transmission mechanism
woodworking machine	8	12	6	16	12	6	11	8	6	7	4	5	7	4	4	9	2	9	8	14	4	6	7	175	woodworking machine
construction machine	37	42	28	34	32	30	31	29	31	38	24	23	27	25	31	22	36	37	27	33	37	38	36	728	construction machine

metal manufacturing machine	7	7	6	12	9	8	7	8	14	8	10	2	9	10	4	5	4	7	5	11	7	9	9	178	metal manufacturing machine
general machine	25	21	29	26	25	25	39	31	19	27	22	27	33	18	18	14	19	18	18	20	16	25	31	546	general machine
mobile silviculture machine																					2		1	3	mobile silviculture machine
crane	61	65	54	63	63	52	50	45	48	49	48	41	32	33	37	44	35	31	32	35	37	42	36	1,033	crane
conveying machine	95	115	102	92	110	94	100	94	92	103	95	90	86	106	82	80	93	116	96	85	110	85	102	2,223	conveying machine
vehicle	75	55	70	51	78	68	82	81	84	83	90	92	102	77	82	80	99	78	90	89	98	72	78	1,854	vehicle
pressure vessel	1	2	1			1	2	2			2		3	1		2	1		1		1		3	23	pressure vessel
chemical facilities																									chemical facilities
welding equipment			1	1	2	1		1			2	1		2			2		1	1	2		2	19	welding equipment
kiln, caldron	1	2			1	1							2				1		1					9	kiln, caldron
electric equipment	5	5	1	5	5	2	1	4	1	4	2		5	4	4	3	1		3		1	4	5	65	electric equipment
human power machine, tools	42	35	39	25	30	34	49	52	47	57	34	53	49	48	57	60	46	55	43	72	62	61	53	1,103	human power machine, tools
tools	87	78	69	79	85	84	86	97	86	87	105	109	99	91	91	81	101	106	104	122	130	128	120	2,225	tools
other equipments, facilities	20	19	15	19	18	21	17	29	22	33	25	34	26	27	27	36	21	30	25	37	28	35	46	610	other equipments, facilities

machine			5		9		7	5	5	2	3	5	4	3	1	6	2	5	6	7	2	2	4	83	machine
band sawing machine										1										1				2	band sawing machine
wood planer machine							1		1				1		1									7	wood planer machine
hollow chisel mortiser, wood borer																									hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine														1										1	chamfering machine, router, woodworking milling machine
chain saw					1		1	2		1			2		1	2		1	1	3	2	3	3	23	chain saw
other woodworking machines			1		2		2	1		3	1				1	1			1	3		1		17	other woodworking machines
leveling, transporting or loading machine			4		6		9	7	7	7	6	5	3	6	6	4	4	6	6	8	3	5	5	107	leveling, transporting or loading machine
excavating machine			14		19		16	15	14	20	13	13	10	15	15	9	20	19	13	20	26	18	22	311	excavating machine
foundation work machine			1		1				1			1	1				1		1	1				8	foundation work machine
hardening machine			1		2			1	2	1	2	1	2	1	2	3	3	4	1	1	2	3		32	hardening machine
demolition machine			2		2		1	1	2	2			3	1			3	2			1	1	3	24	demolition machine
vehicle for high lift work			1		1		1	2	1	4		1	3	2	4	3	1	5	2	2	3	7	6	49	vehicle for high lift work

other construction machines			5		1		4	3	4	4	3	2	5		4	3	4	1	4	1	2	4		54	other construction machines
lathe								1	1		1		1	1						1				6	lathe
drill press, milling machine			1		2			2	1	1					1			1	1		1			11	drill press, milling machine
grinding machine, buffing machine			2		2		1	3	5	3	5	1	5	3	2	3	2	3	3	3	2	3	6	57	grinding machine, buffing machine
power press					1		1						1					2		1				6	power press
forging pressure hammer																									forging pressure hammer
shearing machine									1					1		1				1	1	3		8	shearing machine
other metal manufacturing machines			3		4		5	2	6	4	4	1	3	4	1	1	2	1	1	5	3	3	3	56	other metal manufacturing machines
centrifugal machine			1															1					1	3	centrifugal machine
mixer, grinder			2				2	2	1		1	1	1		1	1	1							13	mixer, grinder
roll machine (except printingroll machine)			1		1		2	1				1			1							1	1	10	roll machine (except printingroll machine)
injection molding machine											1													1	injection molding machine
food manufacturing machine			2		5		7	7	1	6	3	6	8	2	1	4	1	3	4	2	1	4	3	70	food manufacturing machine
printing machine			2		3		3	1	3	1		2	1	2	1		1				1	1	2	24	printing machine
industrial robot											1													1	industrial robot

other general power machines			21		16		25	20	14	20	17	16	23	14	14	9	16	13	14	18	14	19	24	327	other general power machines
felling machine																									felling machine
mobile logging machine																				1		1		2	mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																				1				1	other mobile silviculture machine
crane			12		10		11	7	4	13	7	6	6	7	12	17	6	6	8	13	14	7	9	175	crane
mobile crane			38		49		37	33	37	33	38	33	22	21	22	22	26	24	14	18	21	32	26	546	mobile crane
derrick crane																									derrick crane
elevator, lift			2		2		1	1	5	2	2		2	3	3	4	2	1	7		2	2	1	42	elevator, lift
cargo lifting appliance																				1				1	cargo lifting appliance
gondola							1			1														2	gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane			2		2		1	3	2	1		2	2	2		1	1		3	3		1		26	other powered crane
truck			75		75		68	69	60	74	69	71	58	78	62	54	69	79	69	62	85	55	76	1,308	truck

forklift			16		26		19	17	22	25	17	15	24	17	14	19	15	30	23	20	18	19	19	375	forklift	
railway equipment																										railway equipment
conveyor			5		6		8	5	4	3	3	3	2	8	4	5	6	4	2	3	3	4		78	conveyor	
loader			1						2							1		1				1	1	7	loader	
straddle carrier																										straddle carrier
rough terrain hauler			1					1		1		1			1		2	1			1		1	10	rough terrain hauler	
other powered conveying machines			4		3		5	2	4		6		2	3	1	1	1	1	2		3	6	5	49	other powered conveying machines	
cars, bus, motorcycle			65		76		79	79	84	81	87	90	100	73	80	78	93	76	87	88	97	71	75	1,559	cars, bus, motorcycle	
railway vehicle										1		1												2	railway vehicle	
other vehicles			5		2		3	2		1	3	1	2	4	2	2	6	2	3	1	1	1	3	44	other vehicles	
boiler																	1				1			2	boiler	
pressure vessel							1																1	2	pressure vessel	
other pressure vessels			1				1	2			2		3	1		1	1		1				2	15	other pressure vessels	
chemical facilities																										chemical facilities
gas welding equipment			1		1							2	1		2						1		2	10	gas welding equipment	
arc welding equipment					1												2		1	1	1			6	arc welding equipment	
other welding equipment								1																1	other welding equipment	
kiln, caldron					1								1				1		1					4	kiln, caldron	

as load			15		10		11	14	8	10	11	10	5	9	5	10	9	7	9	7	14	5	9	178	as load
natural ground, rock			6		3		6	4	3	6	2	5	1	2	4	3	5	3	4	3	5	6		71	natural ground, rock
standing tree			3		2		3	4	3	3	1	4	2	2	1	5	3	3	1	2		1	2	45	standing tree
water			2		2		3	2		2	1	1	19		1	3	1	2			2	2	2	45	water
abnormal environment			2				1						1	1				1						6	abnormal environment
high/cold temperature environment			3		4		1	3	6	1	2	6	7	4	3	7	11	5	6	15	12	13	6	115	high/cold temperature environment
other environments			10		13		13	25	8	12	13	15	27	27	28	34	18	22	18	37	18	17	40	395	other environments
other causal agent			24		21		20	18	18	14	23	19	15	17	16	14	25	15	22	25	19	37	178	540	other causal agent
no causal agent			21		37		34	41	42	38	58	51	46	53	44	51	59	54	52	67	71	73	71	963	no causal agent
unclassifiable					6		2	4	4	4	3		5	2	3		5	1	2	2	2	2	3	50	unclassifiable
total			828		919		927	991	916	1,003	956	949	991	982	911	997	1,000	1,060	997	1,168	1,174	1,142	1,373	19,284	total

Workers age of fatal and non-fatal accidents in other 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	20	19	20	16	15	22	15	20	14	16	9	6	20	15	13	7	21	21	15	17	10	17	17	365	19 years old or less
20-29	229	208	186	169	170	174	162	162	156	185	151	155	149	144	130	151	142	146	127	145	156	135	204	3,736	20-29
30-39	172	185	170	194	209	214	210	210	177	218	223	191	200	201	186	168	166	171	176	175	175	146	197	4,334	30-39
40-49	146	163	158	147	157	151	175	188	163	190	178	208	199	195	193	217	222	216	219	229	211	227	251	4,403	40-49
50-59	203	213	179	219	227	197	220	242	237	215	208	189	209	216	188	224	197	228	204	251	263	261	297	5,087	50-59

60 years old or more	136	104	115	130	141	105	145	169	169	179	187	200	214	211	201	230	252	278	256	351	359	356	407	4,895	60 years old or more
total	906	892	828	875	919	863	927	991	916	1,003	956	949	991	982	911	997	1,000	1,060	997	1,168	1,174	1,142	1,373	22,820	total

Workers' number of workplace of fatal and non-fatal accidents in other 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	308	364	276	304	313	309	321	308	299	357	287	299	314	315	298	283	293	321	299	332	351	312	383	7,246	9 workers or less
10-29	316	270	276	275	315	287	301	318	301	320	309	292	323	319	293	321	323	362	345	379	375	371	447	7,438	10-29
30-49	125	93	103	118	94	108	101	138	103	128	139	117	116	130	112	120	145	139	124	154	151	170	189	2,917	30-49
50-99	65	71	74	76	94	79	98	113	106	97	98	101	95	89	75	114	77	85	88	121	107	123	133	2,179	50-99
100-299	66	65	64	57	53	42	59	66	74	69	73	82	95	83	95	105	105	88	88	110	124	104	129	1,896	100-299
300 workers or more	26	29	35	45	50	38	47	48	33	32	50	58	48	46	38	54	57	65	53	72	66	62	92	1,144	300 workers or more
total	906	892	828	875	919	863	927	991	916	1,003	956	949	991	982	911	997	1,000	1,060	997	1,168	1,174	1,142	1,373	22,820	total

Month of fatal and non-fatal accidents in other 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	72	80	68	68	84	76	79	81	66	78	109	67	84	90	85	100	80	90	88	122	121	100	128	2,016	January
February	94	71	71	69	75	45	76	81	83	107	87	87	74	99	84	92	91	82	68	102	94	93	102	1,927	February
March	86	76	66	74	65	82	100	88	80	82	97	78	100	87	65	81	96	106	90	104	111	101	117	2,032	March
April	62	93	51	80	95	73	90	91	65	76	89	72	64	66	78	78	81	76	84	106	99	82	112	1,863	April
May	66	67	69	86	74	82	74	77	92	79	76	61	93	85	75	86	71	89	87	89	98	65	124	1,865	May

June	85	68	77	62	61	77	78	92	76	89	65	96	76	90	72	81	98	84	83	79	86	127	120	1,922	June
July	79	74	76	94	74	78	78	92	77	96	76	87	97	100	72	96	90	95	87	118	89	96	119	2,040	July
August	61	67	79	67	84	69	67	72	78	74	76	84	82	59	84	71	75	105	88	92	102	107	169	1,912	August
September	81	55	61	56	72	72	72	86	58	79	59	72	91	91	64	76	85	78	83	66	89	99	86	1,731	September
October	71	86	81	83	81	65	70	76	95	87	83	90	78	66	89	81	78	93	98	97	103	95	98	1,944	October
November	69	84	63	67	81	75	79	71	82	81	59	86	82	71	80	78	90	76	72	91	93	84	83	1,797	November
December	80	71	66	69	73	69	64	84	64	75	80	69	70	78	63	77	65	86	69	102	89	93	115	1,771	December
total	906	892	828	875	919	863	927	991	916	1,003	956	949	991	982	911	997	1,000	1,060	997	1,168	1,174	1,142	1,373	22,820	total

Prefecture of fatal and non-fatal accidents in other 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	27	40	44		51		25	51	36	43	51	45	37	43	41	40	43	50	64	55	66	54	62	968	Hokkaido
Aomori	4	6	6		13		2	3	4	3	7	4	7	6	7	4	3	8	7	8	10	15	11	138	Aomori
Iwate	10	11	9		13		8	7	11	6	4	7	19	10	18	11	8	13	10	13	16	8	11	223	Iwate
Miyagi	26	15	10		22		32	39	39	46	30	22	38	30	35	29	19	29	20	31	22	16	36	586	Miyagi
Akita	7	6	7		7		12	15	6	14	3	10	6	4	8	3	6	14	7	6	6	4	10	161	Akita
Yamagata		10	6		4		9	6	4	7	16	4	4	5	10	8	6	19	13	15	5	6	8	165	Yamagata
Fukushima	19	12	8		9		22	19	19	22	14	17	11	13	10	7	25	19	14	27	13	20	35	355	Fukushima
Ibaraki	23	16	17		13		5	17	15	18	8	14	12	13	10	16	9	21	11	18	18	19	23	316	Ibaraki
Tochigi	10	10	14		12		8	8	12	20	15	16	17	19	12	17	15	17	14	11	15	19	21	302	Tochigi
Gunma	17	15	18		10		17	14	11	11	9	17	11	17	15	13	12	14	16	20	26	16	14	313	Gunma
Saitama	21	36	44		49		42	53	57	59	59	51	39	87	52	86	66	59	59	75	73	82	78	1,227	Saitama
Chiba	35	46	41		31		33	34	36	35	39	32	35	51	29	34	37	44	40	57	64	57	60	870	Chiba

Tokushima	8	7	9		5		8	8	5	5	3			5	3	5	7	5	7	6	8	8	7	119	Tokushima
Kagawa	11	11	8		11		13	10	7	23	7	7	5	12	5	7	8	5	13	13	7	10	13	206	Kagawa
Ehime	4	8	6		8		11	6	11	9	5	13	6	8	3	3	7	11	12	15	12	8	13	179	Ehime
Kochi	16	15	16		24		9	8	4	8	8	15	13	11	9	2	8	6	4	8	1	3	7	195	Kochi
Fukuoka	36	53	29		51		55	62	41	60	60	51	60	51	42	70	67	71	51	64	63	59	69	1,165	Fukuoka
Saga	7	5	2		1		7	6	8	7	11	5	5	3	2	6	11	11	12	12	14	7	14	156	Saga
Nagasaki	5	4	5		5		4	8	8	4	10	7	4	6	10	12	7	12	16	10	10	11	9	167	Nagasaki
Kumamoto	12	21	9		15		19	28	18	18	20	23	22	13	16	17	20	22	21	27	25	25	14	405	Kumamoto
Oita	11	4	4		8		12	12	10	11	4	9	5	6	17	10	10	11	7	8	11	7	10	187	Oita
Miyazaki	10	11	8		12		6	8	7	14	3	8	14	11	7	15	15	11	12	8	16	18	11	225	Miyazaki
Kagoshima	19	24	17		14		20	20	17	23	10	11	16	13	16	22	22	27	22	26	14	27	13	393	Kagoshima
Okinawa	8	13	12		16		13	14	10	11	9	5	13	21	11	14	11	15	10	17	28	24	25	300	Okinawa
total	906	892	828		919		927	991	916	1,003	956	949	991	982	911	997	1,000	1,060	997	1,168	1,174	1,142	1,373	21,082	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

=====

Fatal accidents in other commerce in Japan in 1999-2021

other commerce industry Code No.080409

burst			1				1																	2	burst
fire					1																			1	fire
traffic accident (public road)	4	4	6	3	6	2	2	2	4	4	4	2	3	4	1	2	2	2	2	1	1	1	1	63	traffic accident (public road)
traffic accident (others)				1																				1	traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others		1			1		3		1	1	1		4		2	2			3	1	1	1		22	others
unclassifiable				1	1																			2	unclassifiable
total	10	9	12	15	16	12	17	12	10	9	12	10	25	7	5	8	10	7	8	7	8	5	5	239	total

Causal agents (large) of fatal accidents in other 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		1	1			1			3	1			3	2			1	1			15	machine
crane, conveying machine	7	6	7	7	10	4	8	5	5	4	8	4	5	5	2	4	2	4	2	4	1	2	3	109	crane, conveying machine
other equipment	1	1	3	2	1	2	1	2	1	1	1	2	1			1	2	1	2	1	3			29	other equipment
temporary buildings,	2			3	2	1	5	3	2	3	2		2	1		1	1		1	1	1	1	2	34	temporary buildings,

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	8	7	5	4	6	6	9	6	3	6	3	7	15	2	1	2	6	6	2	3	3	1	1	112	9 workers or less
10-29	2	1	5	6	7	2	2	4	7	3	6	1	9	2	4	4	2	1	4	4	2	1	1	80	10-29
30-49		1	1	2	1	1	1					1				1	2				1	2		14	30-49
50-99				2	1	2	3				2		1			1			1		2		2	17	50-99
100-299			1		1		2	1				1		3								1		10	100-299
300 workers or more				1		1		1			1								1				1	6	300 workers or more
total	10	9	12	15	16	12	17	12	10	9	12	10	25	7	5	8	10	7	8	7	8	5	5	239	total

Month of fatal accidents in other 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			2	1		2	1	1		1		1				1				3	2	1	17	January
February		2	1	4		1	1	1	1	1	2				2	3	1	1	1				1	23	February
March		1	1	2	1	4	3			2	3	1	17	1		1		1	2	2	1	1		44	March
April			2			2	3	4		1		1			1		1	1	1			1		18	April
May	2	1	1		4		1	1	2	1			2				1		1		1		2	20	May
June	1	1	2	1				2				1	3			1		1						13	June
July		1		1	1	1	1	1	2	1		2		1	1		1		1	1				16	July
August	1	2	1	1	1	1	1	1	1	1	3		1		1	1	2		2	3	1	1		26	August
September	2		1				1			1		2		1						1				9	September
October	1			2	5	2	2	1	3		1	1		2		1		1					1	23	October
November			1	1	1	1				1		2	1			1	2	1			1			13	November
December	2	1	2	1	2		2				2			2			1	1			1			17	December

Nagasaki																											Nagasaki	
Kumamoto											1															1	Kumamoto	
Oita											1			1												3	Oita	
Miyazaki		1							1															1		3	Miyazaki	
Kagoshima						1				1																	2	Kagoshima
Okinawa			1			1																				3	Okinawa	
total	10	9	12	15	16	12	17	12	10	9	12	10	25	7	5	8	10	7	8	7	8	5	5	239	total			

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