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

cleaning industry Code No.011703

Type of accidents in cleaning in 1999-2022

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
fall from height	54	38	54	50	60	64	62	59	60	68	56	55	55	59	67	60	58	61	67	69	71	63	84	76	1,470
falling to same level	109	104	119	122	124	127	131	136	140	145	149	154	160	134	143	157	176	164	178	206	184	203	187	187	3,639
crash	32	19	26	24	26	30	28	36	35	26	20	27	23	34	37	30	33	38	38	30	33	39	29	41	734
struck by flying or falling object	15	12	20	14	13	15	19	17	16	17	18	14	16	14	12	3	6	16	17	10	11	9	11	10	325
collapse	4	7	5	4	6	6	5	2	5	5	3	3	3	5	5	3	9	4	4	6	6	6	5	4	115
crashed by	13	14	12	16	20	19	14	24	15	16	14	12	9	17	22	16	16	16	24	25	22	17	19	17	409
caught in/between	147	129	139	131	123	124	119	127	126	112	92	116	99	96	89	86	82	104	91	98	101	87	74	70	2,562
cut	13	19	15	12	11	14	13	16	20	14	11	11	10	13	7	5	11	9	7	9	12	16	7	11	286
injury to the sole of the foot			2			1														1			1		5
drown																									
contact to high/low-	39	37	48	41	36	34	27	32	37	34	31	29	33	20	33	32	41	27	20	24	35	26	11	25	752

temperature																									
contact to harmful substance	4	5		3	6	4	4	6	5	4	6	3	5	1	5	2	2	4	5	4	5	2	3	4	92
electric shock			1		1	1		1						1		1			1					1	8
explosion				1	1	1						1											2	1	7
burst													1												1
fire	1	1					2														1				5
traffic accident (public road)	15	11	18	21	18	17	15	16	24	11	13	10	11	12	13	16	16	15	15	11	17	11	8	6	340
traffic accident (others)		1							1		1														3
reaction to motion/improper motion	48	45	49	38	40	41	47	46	46	60	45	50	58	50	63	47	71	69	77	62	68	70	75	83	1,348
others	2	7			1	3	4	3	2	3	3	1	4	1	3	2	1	1	2	2	7	11	12	1	76
unclassifiable	1	1	1					1		2	1			1		1	1	1	2	2	1			1	17
total	497	450	509	477	486	501	490	522	532	517	463	486	487	458	499	461	523	529	548	559	574	560	528	538	12,194

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

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine	136	136	124	124	117	125	121	117	127	102	96	83	86	84	85	73	74	99	69	72	76	76	51	49	2,302

crane, conveying machine	67	49	61	68	72	64	63	66	77	63	56	57	45	66	60	56	60	68	58	58	69	54	49	51	1,457
other equipment	94	67	110	86	78	93	89	99	97	116	99	108	111	100	113	107	117	111	125	143	162	151	153	136	2,665
temporary buildings, establishments	115	108	133	118	133	148	130	130	137	135	135	156	148	124	135	147	160	164	184	159	151	160	181	166	3,457
substance, material	23	17	16	16	13	14	15	20	20	19	14	8	17	12	25	10	19	15	17	17	12	10	5	16	370
load	27	30	32	29	35	27	28	49	32	39	31	30	32	39	31	32	34	40	51	45	44	37	31	56	861
environment	7	12	6	10	12	7	10	8	12	12	10	18	12	11	16	16	15	9	12	26	22	20	11	19	313
others	28	31	27	26	26	23	34	33	30	31	22	26	36	22	34	20	44	23	32	39	38	52	47	45	769
total	497	450	509	477	486	501	490	522	532	517	463	486	487	458	499	461	523	529	548	559	574	560	528	538	12,194

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

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine			1								1	1	1				1	1		1					7
power transmission mechanism	8	11	6	7	4	7	1	1	6	2	4	7	5		5	5	6	10	4	5	5	5	5	3	122
woodworking machine		1			1												1	1			1				5

construction machine													1												1
metal manufacturing machine	8	4		4		3	4	5	6	1	1			1	1	2	1	1			1			2	45
general machine	120	120	117	113	112	115	116	111	115	99	90	75	79	83	79	66	65	86	65	65	69	71	46	44	2,121
mobile silviculture machine																				1					1
crane	13	8	5	5	5	7	5	3	8	8	5	5	2	7	2		6	8	2	1	3	3	4	1	116
conveying machine	37	25	36	44	44	37	37	42	44	43	35	37	27	39	43	34	35	43	40	39	41	37	35	38	912
vehicle	17	16	20	19	23	20	21	21	25	12	16	15	16	20	15	22	19	17	16	18	25	14	10	12	429
pressure vessel		1	1			1	1	3		1	1		3	1		3		2	2		2	1			23
chemical facilities																				1	1				2
welding equipment														1											1
kiln, caldron	5	5	3	2	1	2	2	5		2	2	5	7	2	3	2	2	5	4	2	4	3	5	5	78
electric equipment	2	3		1	2	3	2		1	2	2	3	2	1	3	3			1	3	4	6	1	2	47
human power machine, tools	27	18	39	27	25	32	35	26	27	30	30	41	27	28	37	38	48	53	42	51	65	59	52	46	903
tools	31	19	39	27	30	38	28	39	41	57	47	38	40	48	48	40	47	36	51	59	62	57	66	57	1,045
other equipments,	29	21	28	29	20	17	21	26	28	24	17	21	32	19	22	21	20	15	25	27	24	25	29	26	566

facilities																									
temporary buildings, establishments	115	108	133	118	133	148	130	130	137	135	135	156	148	124	135	147	160	164	184	159	151	160	181	166	3,457
hazards, harmful substances	6	7	2	4	4	5	7	8	7	5	6	4	7	2	7	1	4	5	9	5	7	1	3	6	122
materials	17	10	14	12	9	9	8	12	13	14	8	4	10	10	18	9	15	10	8	12	5	9	2	10	248
load	27	30	32	29	35	27	28	49	32	39	31	30	32	39	31	32	34	40	51	45	44	37	31	56	861
natural environment	7	12	6	10	12	7	10	8	12	12	10	18	12	11	16	16	15	9	12	26	22	20	11	19	313
other causal agent	6	12	14	7	5	10	10	10	10	13	2	2	7	3	9	7	14	9	9	6	8	18	14	10	215
no causal agent	20	17	12	19	20	11	23	21	20	16	17	23	28	17	25	12	30	14	22	30	28	34	33	34	526
unclassifiable	2	2	1		1	2	1	2		2	3	1	1	2		1			1	3	2			1	28
total	497	450	509	477	486	501	490	522	532	517	463	486	487	458	499	461	523	529	548	559	574	560	528	538	12,194

Causal agents (small) of fatal and non-fatal accidents in cleaning in 1999-2022

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	2022	total
engine			1								1	1	1				1	1		1					7
power transmission mechanism			6		4		1	1	6	2	4	7	5		5	5	6	10	4	5	5	5	5	3	89
circular sawing					1												1	1							3

machine																									
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																					1				1
other woodworking machines																									
leveling, transporting or loading machine													1												1
excavating machine																									
foundation work machine																									
hardening machine																									
demolition machine																									

vehicle for high lift work																									
other construction machines																									
lathe																									
drill press, milling machine																1									1
grinding machine, buffing machine							1		1		1														3
power press							1	1	2					1	1	1					1			2	10
forging pressure hammer																									
shearing machine									1																1
other metal manufacturing machines							2	4	2	1							1	1							11
centrifugal machine			1					1	1			1			1	1	1	1		1	1			1	11
mixer, grinder																			1						1
roll machine (except printingroll machine)			8		12		11	12	8	9	10	12	8	10	5	5	5	9	5	3	7	8	7	4	158
injection molding																									

machine					1						1						1				1		1		5
food manufacturing machine																									
printing machine																									
industrial robot					1		1															1			3
other general power machines			108		98		104	98	106	90	79	62	71	73	73	60	58	76	59	61	60	62	38	39	1,475
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																				1					1
crane										1			1					1		1					4
mobile crane														2											2
derrick crane																									
elevator, lift			4		5		5	3	7	7	4	5		5	2		6	7	2		2	3	2	1	70
cargo lifting appliance											1														1
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane			1						1				1								1		2		6
truck			11		22		18	16	21	19	20	16	8	17	24	13	14	27	21	23	23	24	20	19	376
forklift			1		2		2	3			1			1	1	3		1	1	1	3	1		2	23
railway equipment																							1		1
conveyor			22		18		15	19	23	21	12	20	18	18	16	17	19	14	18	13	13	6	13	17	332
loader														1											1
straddle carrier																									
rough terrain hauler																									
other powered conveying machines			2		2		2	4		3	2	1	1	2	2	1	2	1		2	2	6	1		36
cars, bus, motorcycle			20		22		21	21	25	12	16	14	15	17	14	21	19	17	16	18	24	14	10	11	347
railway vehicle																									
other vehicles					1							1	1	3	1	1					1			1	10
boiler			1				1	2		1	1		2	1		2			1		1	1			14
pressure vessel													1			1		1	1		1				5

other pressure vessels								1										1							2
chemical facilities																				1	1				2
gas welding equipment																									
arc welding equipment														1											1
other welding equipment																									
kiln, caldron								1															2		3
industrial dryer			3		1		2	4		2	2	4	7	2	3	2	2	5	3	2	4	3	3	5	59
other kiln, caldron												1							1						2
transmission													1	1	2	1			1	2	3	3	1	1	16
electric power facilities															1									1	2
other electrical equipment					2		2		1	2	2	3	1			2				1	1	3			20
human power cranes																				2	8	5	10	15	40
human power hauling equipment			36		22		34	23	26	28	28	37	26	27	35	36	44	49	39	45	55	51	41	28	710
human power			1		1			1	1	1		2				1	1	2	1	1				1	14

machine																									
hand tool			2		2		1	2		1	2	2	1	1	2	1	3	2	2	3	2	3	1	2	35
ladder			24		17		14	18	20	31	20	21	23	18	29	19	25	16	22	30	27	32	31	33	470
slinging tool					1																				1
other tools			15		12		14	21	21	26	27	17	17	30	19	21	22	20	29	29	35	25	35	24	459
other equipment, facilities			28		20		21	26	28	24	17	21	32	19	22	21	20	15	25	27	24	25	29	26	470
scaffolding							2														1				3
timbering																									
stairs, landing stage			34		33		32	23	28	24	19	21	27	20	21	27	29	31	27	16	25	26	34	35	532
opening			1		1		5		2		1	2	1	2	2	1	2				1		1		22
roof, beam, haze, crossbeam, principal rafter			1		2		1		1	2		1	2					1	2	1		1	2	1	18
working platform, boot board			17		17		22	16	12	18	19	20	27	13	9	24	30	19	26	19	14	19	18	18	377
passage			61		54		43	51	65	70	71	82	64	63	72	78	72	82	89	92	81	92	103	89	1,474
building, establishment			11		14		12	26	17	17	17	21	23	17	23	6	11	20	21	20	19	10	9	13	327
other temporary buildings, establishments			8		12		13	14	12	4	8	9	4	9	8	11	16	11	19	11	10	12	14	10	215

explosive substance					1		1					1					1								4
inflammable substance								1				1					1		1	1				1	6
inflammable gas									1																1
harmful substance					1		4	6	4	1	3	2	4		6	1		2	3	2	2			2	43
radiation																									
other hazards, harmful substances			2		2		2	1	2	4	3		3	2	1		2	3	5	2	5	1	3	3	46
metal material			6		2			3	3	5	2		2	1	4	1	5	2		1		1	1	2	41
lumber, bamboo										2	1	1			1		3		1	1				1	11
stone, sand, substance					1																				1
other materials			8		6		8	9	10	7	5	3	8	9	13	8	7	8	7	10	5	8	1	7	147
load			30		35		27	49	32	39	30	30	32	39	31	31	34	39	49	41	43	36	31	56	734
machine/equipment as load			2				1				1					1		1	2	4	1	1			14
natural ground, rock							1			1				1				1					1		5
standing tree					1			1			1								1						4
water									1			1													2
abnormal environment					1								1												2

high/cold temperature environment			3		2			3	4	4	2	8	2	1	5	7	7	3	4	11	12	9	1	9	97
other environments			3		8		9	4	7	7	7	9	9	9	11	9	8	5	7	15	10	11	9	10	167
other causal agent			14		5		10	10	10	13	2	2	7	3	9	7	14	9	9	6	8	18	14	10	180
no causal agent			12		20		23	21	20	16	17	23	28	17	25	12	30	14	22	30	28	34	33	34	459
unclassifiable			1		1		1	2		2	3	1	1	2		1			1	3	2			1	22
total	497	450	509	477	486	501	490	522	532	517	463	486	487	458	499	461	523	529	548	559	574	560	528	538	12,194

Workers age of fatal and non-fatal accidents in cleaning in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less	5	9	7	3	5	6	9	6	3	7	4	10	7	7	4	8	6	9	7	4	5	6	4	4	145
20-29	84	70	68	73	85	43	53	54	52	52	40	49	41	36	44	41	34	40	43	44	35	41	40	28	1,190
30-39	78	75	87	72	75	100	89	88	101	88	73	82	76	56	84	61	65	57	79	64	72	56	51	49	1,778
40-49	112	97	110	87	80	100	86	115	121	105	99	94	98	116	95	109	127	132	122	119	118	92	101	104	2,539
50-59	155	155	175	179	159	173	181	191	164	158	138	152	155	134	154	140	152	143	149	172	168	171	153	162	3,833
60 years old or more	63	44	62	63	82	79	72	68	91	107	109	99	110	109	118	102	139	148	148	156	176	194	179	191	2,709
total	497	450	509	477	486	501	490	522	532	517	463	486	487	458	499	461	523	529	548	559	574	560	528	538	12,194

Workers' number of workplace of fatal and non-fatal accidents in cleaning in 1999-2022

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
9 workers or less	71	50	61	68	64	69	52	56	56	61	46	46	49	59	46	41	48	45	60	63	44	59	52	64	1,330
10-29	93	117	122	103	112	90	96	119	127	117	90	98	100	90	90	86	99	93	79	83	81	98	69	91	2,343
30-49	89	72	85	83	91	80	89	85	88	88	82	82	75	76	91	80	83	106	90	98	112	97	109	93	2,124
50-99	128	83	112	106	90	137	106	125	110	112	101	102	112	92	120	111	111	114	119	124	131	121	123	118	2,708
100-299	91	94	100	93	100	98	109	102	122	109	119	133	132	119	137	112	153	137	165	162	162	149	140	121	2,959
300 workers or more	25	34	29	24	29	27	38	35	29	30	25	25	19	22	15	31	29	34	35	29	44	36	35	51	730
total	497	450	509	477	486	501	490	522	532	517	463	486	487	458	499	461	523	529	548	559	574	560	528	538	12,194

Month of fatal and non-fatal accidents in cleaning in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	43	32	32	37	39	32	38	42	44	38	48	37	46	37	49	42	51	49	46	61	39	48	46	50	1,026
February	39	49	42	29	35	43	30	29	37	43	30	43	33	49	37	39	44	40	52	48	28	47	45	34	945
March	40	44	43	50	39	45	50	52	43	42	34	43	37	32	39	34	48	47	46	43	50	49	47	41	1,038
April	46	51	48	35	53	35	34	37	47	41	42	39	47	27	36	49	42	40	43	41	41	39	53	49	1,015
May	46	31	51	43	46	46	43	50	42	46	37	51	46	35	39	39	48	43	48	48	52	43	45	38	1,056
June	49	34	47	41	48	45	47	45	47	37	43	38	40	48	39	47	45	51	32	43	59	48	48	45	1,066
July	41	31	47	39	37	40	37	63	50	59	34	39	50	45	39	32	48	49	59	71	43	57	41	52	1,103

August	47	37	49	33	44	39	53	46	63	35	41	44	35	43	52	33	47	48	53	44	78	47	52	45	1,108
September	35	35	42	36	30	61	38	45	42	48	42	47	32	36	43	41	30	45	40	36	41	41	38	53	977
October	42	44	45	49	40	41	45	46	41	44	35	34	45	39	41	33	31	37	47	44	53	47	41	42	1,006
November	32	27	34	37	39	35	35	30	42	47	32	24	39	41	47	41	40	43	42	38	41	40	33	48	907
December	37	35	29	48	36	39	40	37	34	37	45	47	37	26	38	31	49	37	40	42	49	54	39	41	947
total	497	450	509	477	486	501	490	522	532	517	463	486	487	458	499	461	523	529	548	559	574	560	528	538	12,194

Prefecture of fatal and non-fatal accidents in cleaning in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	41	38	44		50		36	35	41	34	35	32	37	42	27	30	34	34	36	42	36	28	41	56	829
Aomori	3	6	5		5		11	6	9	6	9	7	6	6	6	6	9	7	5	9	5	5	5	1	137
Iwate	4	8	9		7		4	3	3	4	8	4	8	4	7	4	7	7	7	6	3	6	3	5	121
Miyagi	9	15	8		7		13	14	13	12	9	9	18	6	15	12	13	8	18	17	10	24	14	12	276
Akita	7	10	4		5		11	4	5	4	6	5	7	5	4	5	3	4	3	5	5	7	4	7	120
Yamagata	5	3	6		4		4	7	6	11	8	5	5	7	6	11	9	8	9	2	10	5	6	9	146
Fukushima	13	8	13		8		8	9	7	10	12	7	12	7	5	9	7	9	8	17	11	13	13	13	219
Ibaraki	7	2	6		11		5	13	19	5	8	6	7	12	11	15	10	15	9	7	7	9	4	11	199
Tochigi	7	12	21		11		10	9	9	12	8	19	13	14	9	13	23	13	17	8	23	15	17	18	301
Gunma	8	5	12		1		6	7	5	12	7	15	7	7	18	9	15	10	8	15	13	18	10	11	219
Saitama	23	17	19		25		22	23	26	30	25	22	33	20	28	31	37	33	36	31	32	34	30	31	608

Chiba	18	20	24		23		18	28	38	27	27	36	29	32	28	21	27	18	27	37	40	32	36	28	614
Tokyo	35	26	36		34		32	40	41	47	28	26	36	27	33	32	37	43	26	37	36	29	36	30	747
Kanagawa	37	39	45		38		32	43	36	37	37	40	39	28	45	27	33	45	39	29	53	41	31	44	838
Niigata	10	17	10		13		12	8	14	12	9	17	9	13	15	14	12	8	22	20	17	14	14	7	287
Toyama	4	1	2		1		6	4	8	5	3	6	4	6	2	5	6	8	8	3	4	5	8	5	104
Ishikawa	1	3	6		4		4	8	5	6	6	5	10	6	9	6	4	2	6	5	9	6	4	5	120
Fukui	3	3	3		3		1	2	2	1	2	2	1	4	4	2	3	4		3	1	5	3	4	56
Yamanashi	3	1	3		1		4	4	5	4	2	5	4	3	1	2	3		4	4	8	2	5	5	73
Nagano	3	5	3		5		8		9	8	6	5	3	3	10	7	9	9	11	8	9	6	5	3	135
Gifu	13	6	5		6		9	10	9	10	13	11	18	10	9	6	8	8	11	6	13	19	5	10	215
Shizuoka	25	15	16		19		20	13	18	11	7	12	5	18	19	12	18	18	15	23	16	28	12	14	354
Aichi	26	21	21		17		27	18	13	20	21	16	11	16	22	16	19	20	24	12	15	18	19	22	414
Mie	6	5	3		6		4	2	8	5	5	1	4	1	4	9	5	8	11	7	12	4	6	3	119
Shiga	5	2	3		9			5	3	5	4	3	3	2	5	3	8	5	2	7	4	7	7	3	95
Kyoto	14	3	9		12		9	19	12	19	11	14	12	13	16	6	10	21	17	19	12	16	19	18	301
Osaka	23	27	36		20		23	33	34	20	23	24	18	28	21	26	30	22	22	34	35	31	23	26	579
Hyogo	17	22	13		21		17	12	14	8	20	18	13	13	19	10	14	19	18	11	21	15	17	15	347
Nara	1	4	9		4		8	2	4	3	9	4	2	6	4	7	5	8	6	10	3	7	11	9	126
Wakayama	8	2	1		3		13	3	5	4	5	3	7	4	4	4	7	4	2	4	6	2	6	4	101
Tottori	2	3			2		3	1	2	3	4		1	3	3	2	1	1	3	3	2	2	1	3	45
Shimane	6	3	5		7		4	8	7	10	4	7	5	2	4	6	4	2	7	4	7	6	3	1	112

Okayama	5	4	7		8			3	7	2		3	1	5	4	1	1	3	2	4	4	6	5	6	81
Hiroshima	11	11	11		8		22	16	12	14	8	12	13	12	8	21	15	17	19	12	17	10	7	19	295
Yamaguchi	13	11	6		11		4	6	2	2	3	5	5	3	3	4	5	5	2	3	3	4	4	3	107
Tokushima	1		3				1	3	2	2		2					2	1	4	1	1	1	8	1	33
Kagawa	3	7	13		8		5	8	6	6	6	3	4	5	7	3	3	2	6	2	5	6	6	8	122
Ehime	10	5	8		4		4	4	4	3	9	12	9	4	2	11	1	3	8	7	3	4	5	4	124
Kochi	5	5	4		4		1	5	6	4	2	2	5	1	3	5	3		4		3	1	1	3	67
Fukuoka	23	17	21		21		26	28	26	27	17	21	19	20	17	15	22	29	22	35	19	23	17	18	483
Saga	8	7	9		9		4	9	10	8	4	4	4	6	6	4	7	14	7	5	5	6	12	12	160
Nagasaki	8	5	6		6		6	5	3	3	7	7	4	8	7	6	7	4	6	5	5	10	5	5	128
Kumamoto	6	7	4		6		7	7	9	13	5	8	9	7	10	7	13	5	11	7	6	5	12	4	168
Oita	3	3	3		3		6	10	1	8	5	1	3	2	2		4	4	3	8	1	4	3	7	84
Miyazaki	6	2	4		3		5	9	3	5	1	3	8	5	3	2	3	4	3	4	5	2	5	1	86
Kagoshima	5	10	7		6		8	9	4	7	7	5	8	5	9	5	2	8	6	6	10	8	11	7	153
Okinawa	3	4	3		7		7	7	7	8	8	12	8	7	5	9	5	9	8	15	9	11	9	7	168
total	497	450	509	477	486	501	490	522	532	517	463	486	487	458	499	461	523	529	548	559	574	560	528	538	12,194

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

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

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html

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Fatal accidents in cleaning in Japan in 1999-2022

cleaning industry Code No.011703

Type of fatal accidents in cleaning in 1999-2022

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
fall from height										1	1			1			1					1			5
falling to same level									1															1	2
crash																									
struck by flying or falling object																									
collapse																									
crashed by				1						1									1		1				4
caught in/between	2	4	3	3		3	2		2	1		1	1	2	1	1	1	1	1	1	3	1	1	1	36
cut																									
injury to the sole of the foot																									
drown																									

contact to high/low-temperature										1		1												1	3
contact to harmful substance													1												1
electric shock																									
explosion																							1		1
burst																									
fire																									
traffic accident (public road)	2		1	1		1	2		1			1		1		1					1				12
traffic accident (others)																									
reaction to motion/improper motion																									
others																1		1							2
unclassifiable																									
total	4	4	4	5		4	4		4	4	1	3	2	4	1	3	2	2	2	1	5	2	2	3	66

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

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total

machine	1	4	2	2		1	1		1					1			1		1		1	1	1		18
crane, conveying machine	3		1	3		2	3		2	2		1	1	2		2				1	2			1	26
other equipment			1			1				1	1	1		1	1			2			2		1		12
temporary buildings, establishments									1								1					1		1	4
substance, material													1												1
load																									
environment										1		1							1					1	4
others																1									1
total	4	4	4	5		4	4		4	4	1	3	2	4	1	3	2	2	2	1	5	2	2	3	66

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

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism																									
woodworking machine																									
construction machine																									

metal manufacturing machine																									
general machine	1	4	2	2		1	1		1					1			1		1		1	1	1		18
mobile silviculture machine																									
crane				1		1			1	2			1											1	7
conveying machine	1		1	1			1					1		1		1				1	2				10
vehicle	2			1		1	2		1					1		1									9
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron						1				1				1				1			1		1		6
electric equipment																									
human power machine, tools																		1			1				2
tools											1														1
other equipments, facilities			1									1			1										3
temporary buildings, establishments									1								1					1		1	4
hazards, harmful substances													1												1

materials																									
load																									
natural environment										1		1							1					1	4
other causal agent																									
no causal agent																1									1
unclassifiable																									
total	4	4	4	5		4	4		4	4	1	3	2	4	1	3	2	2	2	1	5	2	2	3	66

Causal agents (small) of fatal accidents in cleaning in 1999-2022

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	2022	total
engine																									
power transmission mechanism																									
circular sawing machine																									
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									

chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines																									
leveling, transporting or loading machine																									
excavating machine																									
foundation work machine																									
hardening machine																									
demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe																									
drill press, milling machine																									
grinding machine,																									

buffing machine																									
power press																									
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines																									
centrifugal machine																									
mixer, grinder																									
roll machine (except printingroll machine)																									
injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines	1	4	2	2		1	1		1					1			1		1		1	1	1		18
felling machine																									
mobile logging																									

machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane																									
derrick crane																									
elevator, lift				1		1			1	2			1											1	7
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck			1	1								1									1				4
forklift																									
railway equipment	1																								1
conveyor																1				1	1				3

loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines							1							1											2
cars, bus, motorcycle	2			1		1	2		1					1		1									9
railway vehicle																									
other vehicles																									
boiler																									
pressure vessel																									
other pressure vessels																									
chemical facilities																									
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron																						1		1
industrial dryer						1				1				1				1			1				5
other kiln, caldron																									

transmission																									
electric power facilities																									
other electrical equipment																									
human power cranes																									
human power hauling equipment																		1			1				2
human power machine																									
hand tool																									
ladder											1														1
slinging tool																									
other tools																									
other equipment, facilities			1									1			1										3
scaffolding																									
timbering																									
stairs, landing stage																									
opening																	1								1
roof, beam, haze,																									

crossbeam, principal rafter																						1			1
working platform, boot board																									
passage																								1	1
building, establishment									1																1
other temporary buildings, establishments																									
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance													1												1
radiation																									
other hazards, harmful substances																									
metal material																									
lumber, bamboo																									
stone, sand, substance																									

other materials																									
load																									
machine/equipment as load																									
natural ground, rock																									
standing tree																			1						1
water																									
abnormal environment																									
high/cold temperature environment										1		1												1	3
other environments																									
other causal agent																									
no causal agent																1									1
unclassifiable																									
total	4	4	4	5		4	4		4	4	1	3	2	4	1	3	2	2	2	1	5	2	2	3	66

Workers age of fatal accidents in cleaning in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less																									

20-29	2	1		1			1									2		1							8
30-39		1	2	1		3	1		2			2	1					1			2				16
40-49		1	1							1		1		2	1		1						1	1	10
50-59	1			1			2		1	1				2		1				1		1	1	1	13
60 years old or more	1	1	1	2		1			1	2	1		1				1		2		3	1		1	19
total	4	4	4	5		4	4		4	4	1	3	2	4	1	3	2	2	2	1	5	2	2	3	66

Workers' number of workplace of fatal accidents in cleaning in 1999-2022

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
9 workers or less						1				1												1			3
10-29			2	1		1				2	1			2	1		2		1					1	14
30-49	1	1		1		1	3		2	1		1	1			2			1		1	1		1	18
50-99	3	3	2				1		1			2	1	1		1		1			2		1		19
100-299				3		1			1									1		1	2			1	10
300 workers or more														1									1		2
total	4	4	4	5		4	4		4	4	1	3	2	4	1	3	2	2	2	1	5	2	2	3	66

Month of fatal accidents in cleaning in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January				1		1			1	1			1					2							7

February		1							1				1			1							1		5
March	1	1		1			2									1	1		1		2				10
April		1								1				1	1									1	5
May									1		1						1			1					4
June	2								1													1			4
July				1						1		1				1								1	5
August			2			1								2							1	1			7
September	1	1	1	1						1									1						6
October				1			1					2									2		1		7
November						1	1							1										1	4
December			1			1																			2
total	4	4	4	5		4	4		4	4	1	3	2	4	1	3	2	2	2	1	5	2	2	3	66

Prefecture of fatal accidents in cleaning in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido		1		1			1							1							1				5
Aomori																									
Iwate																									
Miyagi							1			1			1												3
Akita	2																								2

Yamagata																1									1
Fukushima																			1						1
Ibaraki									1													1			2
Tochigi																1	1								2
Gunma																									
Saitama				1		1							1	1											4
Chiba			1													1									2
Tokyo		1								1				1							3				6
Kanagawa		1	1	2		1			1			1		1	1									1	10
Niigata																									
Toyama																				1					1
Ishikawa																									
Fukui																									
Yamanashi									1			1													2
Nagano																									
Gifu																									
Shizuoka				1		1																			2
Aichi										1	1														2
Mie																									
Shiga																									
Kyoto									1																1

Osaka																		1				1			2
Hyogo		1				1																		1	3
Nara																									
Wakayama							1										1								2
Tottori																									
Shimane																									
Okayama	1		1																						2
Hiroshima																									
Yamaguchi																									
Tokushima																									
Kagawa																							1		1
Ehime												1													1
Kochi																					1				1
Fukuoka	1																	1	1						3
Saga																									
Nagasaki																									
Kumamoto										1															1
Oita																								1	1
Miyazaki			1																						1
Kagoshima																									
Okinawa							1																1		2

total	4	4	4	5		4	4		4	4	1	3	2	4	1	3	2	2	2	1	5	2	2	3	66

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

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