

Industrial accidents in other waste disposal service in Japan in 1999-2020

other waste disposal service industry Code No.150103

Type of accidents in other waste disposal service in 1999-2020

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
fall from height	121	122	125	123	137	149	139	140	147	142	90	118	106	100	117	146	103	129	112	117	123	144
falling to same level	145	157	139	178	191	187	165	181	166	178	155	159	170	176	152	147	144	168	147	146	157	186
crash	72	69	54	79	82	96	93	91	87	80	95	85	83	81	60	71	64	67	66	67	64	73
struck by flying or falling object	63	65	44	46	77	54	53	72	55	62	39	41	66	36	50	45	52	46	40	23	53	46
collapse	7	11	10	19	23	15	8	13	15	11	6	7	11	5	11	12	11	11	6	4	11	5
crashed by	39	28	36	43	42	37	48	46	42	41	45	32	28	30	36	23	24	40	26	28	36	39
caught in/between	150	121	154	151	184	167	159	140	137	185	124	130	151	129	146	143	154	141	116	116	138	177
cut	62	59	60	68	71	69	66	81	57	60	61	58	57	55	64	52	49	46	42	44	46	53
injury to the sole of the foot	3	7	5	11	5	10	3	3	6	6	4	4	3	5	7	5	2	2	5	5	4	5

total	987	940	873	1,024	1,198	1,116	1,130	1,109	1,060	1,080	887	932	981	900	899	896	821	870	783	778	890	1,071
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Causal agents (middle) of industrial accidents in other waste disposal service in 1999-2020

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine	0	0	1	-	0	-	0	1	1	0	0	0	0	0	0	0	1	0	1	0	0	0
power transmission mechanism	5	2	3	3	3	3	2	3	3	2	3	3	6	4	3	6	4	2	7	9	4	2
woodworking machine	4	2	3	5	6	3	9	3	4	2	3	6	3	6	2	1	3	4	3	2	5	3
construction machine	6	6	8	6	16	16	11	10	11	12	13	15	9	13	17	9	6	9	7	13	9	8
metal manufacturing machine	8	5	7	8	6	5	9	11	6	4	4	16	6	4	5	10	5	5	6	3	5	5
general machine	28	21	15	27	36	36	24	23	30	35	27	21	17	15	27	17	21	24	23	21	28	30
mobile silviculture machine																	0	0	0	0	1	0
crane	6	4	1	6	8	8	8	6	4	6	9	6	9	8	11	4	6	9	4	2	4	3

elevator, lift			0	0		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
cargo lifting appliance			0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gondola			0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lumberyard equipment, logging cableway			0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
simple skyline yarding equipment																0	0	0	0	0	0	0
other powered crane			0	1		1	1	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0
truck			181	221		231	187	198	224	162	189	164	187	182	196	174	158	134	148	169	218	
forklift			8	17		18	18	12	15	7	13	13	11	9	14	12	14	10	8	18	14	
railway equipment			0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
conveyor			15	19		18	17	17	26	19	19	13	17	18	17	18	11	11	5	20	15	
loader			0	5		2	2	0	2	1	1	3	1	0	1	2	0	1	0	4	1	
straddle carrier			0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rough terrain hauler			1	1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other powered conveying machines			37	32		20	29	24	33	27	23	28	26	26	26	33	33	35	27	14	19	

lumber, bamboo			12		10		11	7	5	10	13	6	15	4	7	9	9	6	9	5	5	5
stone, sand, substance			7		6		3	6	6	4	4	1	3	4	7	1	1	3	1	3	2	2
other materials			37		39		47	49	34	44	29	28	46	30	42	45	30	31	25	24	32	38
load			134		191		148	163	141	119	120	100	111	91	77	94	71	99	82	56	81	124
machine/equipment as load			3		5		6	7	0	5	3	3	7	1	5	2	3	3	5	3	1	2
natural ground, rock			7		6		5	6	10	3	3	6	6	1	6	4	4	2	2	2	2	2
standing tree			6		3		2	1	2	1	1	1	1	1	0	0	3	3	2	3	0	2
water			1		0		4	1	0	0	1	2	9	0	1	1	1	1	1	1	0	0
abnormal environment			2		0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	2
high/cold temperature environment			5		0		2	5	5	6	2	6	7	8	5	4	7	7	3	16	11	14
other environments			19		11		14	17	8	19	13	17	29	20	17	20	18	20	25	19	20	23
other causal agent			18		33		19	17	33	35	14	15	28	15	14	19	10	15	16	11	15	46
no causal agent			45		80		105	95	82	71	64	55	74	67	63	63	54	58	45	56	60	67
unclassifiable			4		1		2	3	4	1	4	2	5	3	0	2	1	1	1	0	0	2

total			873	1,198	1,130	1,109	1,060	1,080	887	932	981	900	899	896	821	870	783	778	890	1,071
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Workers age of industrial accidents in other waste disposal service in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
19 years old or less	14	12	12	10	13	14	16	14	16	17	5	8	11	9	10	15	5	15	6	4	4	11
20-29	215	172	158	188	209	193	176	165	133	149	117	105	123	102	101	98	85	86	69	78	75	108
30-39	226	236	210	268	323	320	358	344	282	287	233	240	210	216	202	162	175	140	153	140	147	165
40-49	206	185	156	201	242	226	234	223	239	222	233	248	293	257	232	277	219	252	190	204	219	261
50-59	223	239	223	241	268	241	218	242	263	237	187	184	193	185	195	207	205	211	207	216	261	306
60 years old or more	103	96	114	116	143	122	128	121	127	168	112	147	151	131	159	137	132	166	158	136	184	220
total	987	940	873	1,024	1,198	1,116	1,130	1,109	1,060	1,080	887	932	981	900	899	896	821	870	783	778	890	1,071

Workers' number of workplace of industrial accidents in other waste disposal service in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	143	144	157	170	174	173	154	150	144	148	124	154	140	122	120	101	130	106	90	85	111	101
10-29	246	239	215	231	258	227	256	246	255	256	207	233	243	211	214	232	201	224	197	206	255	287

Chiba	42	57	43		55		39	55	53	63	30	30	48	40	46	34	20	25	19	39	45	62
Tokyo	33	54	74		96		83	80	63	103	87	81	85	63	82	106	91	67	61	59	79	167
Kanagawa	102	97	100		76		82	71	66	64	54	53	64	45	53	60	51	43	50	45	48	67
Niigata	24	24	32		24		23	31	16	28	15	12	19	22	22	17	18	19	18	19	22	21
Toyama	6	8	7		5		4	5	9	6	3	4	6	4	4	2	4	5	1	5	4	5
Ishikawa	7	10	14		6		9	7	10	8	8	7	3	5	6	6	2	9	8	4	2	10
Fukui	5	11	8		8		3	7	1	8	7	8	5	8	6	12	11	6	7	6	9	9
Yamanashi	4	5	1		3		6	4	4	3	1	1	0	1	3	4	6	6	0	2	1	3
Nagano	6	12	8		8		14	13	20	18	14	12	12	17	15	11	8	14	7	16	11	12
Gifu	11	15	13		6		11	13	19	15	21	9	16	15	8	14	16	11	10	9	12	13
Shizuoka	26	22	15		25		19	20	31	27	16	24	18	18	15	19	17	26	16	25	32	30
Aichi	53	43	46		46		58	52	79	68	71	60	68	60	47	46	46	61	60	53	60	56
Mie	14	18	9		10		13	13	17	14	16	20	11	8	14	13	7	13	10	6	9	6
Shiga	7	8	9		8		10	13	9	12	16	13	7	12	11	11	9	14	4	11	12	7
Kyoto	42	53	30		41		47	33	30	22	20	10	7	13	16	17	15	13	24	14	21	11
Osaka	200	154	88		245		198	214	163	162	134	160	148	163	119	115	67	116	78	76	56	82
Hyogo	28	15	21		134		99	73	86	74	72	74	95	69	70	81	60	67	84	48	53	79
Nara	1	3	21		16		11	21	22	17	17	19	16	18	19	25	21	26	13	18	19	38
Wakayama	2	3	9		8		23	17	14	12	10	9	4	7	8	1	4	2	4	6	4	3

Tottori	1	4	8		3		4	6	8	3	3	3	8	3	3	4	6	7	4	3	5	3
Shimane	4	7	5		10		10	6	2	6	7	7	6	2	8	5	1	3	2	1	3	3
Okayama	7	7	8		6		7	5	9	13	6	8	10	4	4	6	9	6	4	10	9	12
Hiroshima	18	21	18		19		21	22	19	16	15	18	20	13	12	12	14	12	11	11	19	14
Yamaguchi	15	13	9		12		21	17	6	9	11	10	12	9	9	8	7	10	10	8	9	10
Tokushima	2	0	3		3		5	5	1	5	2	7	1	3	4	6	3	2	4	10	15	9
Kagawa	5	6	3		3		8	5	7	5	8	5	1	5	7	7	11	7	6	8	8	6
Ehime	6	7	3		5		18	8	12	6	5	8	3	3	3	4	5	2	2	3	8	9
Kochi	10	6	7		10		9	18	14	11	10	9	16	13	10	15	9	10	5	11	5	8
Fukuoka	52	61	54		68		63	79	78	58	49	43	58	56	61	39	51	41	47	31	51	45
Saga	9	7	4		8		3	6	8	2	0	3	5	4	6	0	2	8	2	7	6	4
Nagasaki	6	1	4		8		5	4	6	8	2	2	4	7	7	6	7	5	7	11	6	12
Kumamoto	5	11	13		9		9	15	5	18	10	12	11	6	7	8	11	12	12	8	13	17
Oita	13	6	5		5		9	8	4	7	1	3	1	2	3	8	12	13	13	8	7	17
Miyazaki	6	11	0		8		6	5	8	5	6	6	7	8	3	3	3	9	8	7	3	7
Kagoshima	6	9	9		20		11	5	11	12	8	7	3	7	4	8	8	7	9	13	13	6
Okinawa	2	0	5		1		4	2	2	6	4	2	5	7	2	1	4	6	8	5	7	9
total	987	940	873		1,198		1,130	1,109	1,060	1,080	887	932	981	900	899	896	821	870	783	778	890	1,071

Industrial accidents mean fatal and non-fatal injuries with work absence of 4 days and more. Data of 2011 year include Industrial accidents caused by Great East Japan Earthquake in 2011.

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

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

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Fatal accidents in other waste disposal service in Japan in 1999-2020

other waste disposal service industry Code No.150103

Type of fatal accidents in other waste disposal service in 1999-2020

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
fall from height	2	3	1	3	5	3	2	1	3	3	1	2	0	2	0	4	2	1	3	2	1	1	
falling to same level	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	1	1	0	
crash	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
struck by flying or falling object	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
collapse	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
crashed by	0	3	0	1	0	0	0	0	1	1	2	1	1	1	1	0	0	0	0	1	1	0	

others	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	6	12	10	12	13	9	11	12	5	9	6	10	7	7	8	9	9	6	7	9	12	11

Causal agents (middle) of fatal accidents in other waste disposal service in 1999-2020

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
woodworking machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
construction machine	0	1	1	1	2	1	0	0	0	1	0	1	0	1	1	0	0	0	0	1	1	0
metal manufacturing machine	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
general machine	0	0	0	2	1	0	2	0	1	0	2	1	0	0	1	0	1	1	0	0	0	1
mobile silviculture machine																	0	0	0	0	0	0
crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
conveying machine	4	9	6	6	6	4	6	7	4	6	2	5	1	4	4	5	4	2	4	5	5	8

hammer																							
shearing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other metal manufacturing machines	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
centrifugal machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mixer, grinder	0	0	0	1	1	0	2	0	1	0	1	0	0	0	1	0	0	1	0	0	0	0	0
roll machine (except printingroll machine)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
injection molding machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
food manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
printing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial robot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other general power machines	0	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1
felling machine																	0	0	0	0	0	0	0
mobile logging machine																	0	0	0	0	0	0	0

skyline yarding machine																	0	0	0	0	0	0
other mobile silviculture machine																	0	0	0	0	0	0
crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mobile crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
derrick crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
elevator, lift	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cargo lifting appliance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gondola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lumberyard equipment, logging cableway	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
simple skyline yarding equipment																	0	0	0	0	0	0
other powered crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
truck	3	8	3	3	5	3	4	6	3	4	1	5	1	2	4	5	3	1	4	4	3	7
forklift	0	1	0	2	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	1	0
railway equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveyor	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	1

unclassifiable	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	6	12	10	12	13	9	11	12	5	9	6	10	7	7	8	9	9	6	7	9	12	11

Workers age of fatal accidents in other waste disposal service in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
19 years old or less	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-29	1	3	0	1	1	1	0	2	0	0	1	0	1	0	2	0	1	0	0	1	2	0
30-39	1	2	1	3	3	2	0	4	2	1	0	1	2	0	1	1	0	2	1	3	1	1
40-49	1	2	3	1	1	1	2	3	1	1	0	2	1	4	1	0	2	1	2	2	3	1
50-59	1	1	2	3	1	2	6	3	1	2	3	4	2	0	1	3	2	1	2	2	1	3
60 years old or more	2	4	4	4	7	3	3	0	1	5	2	3	1	3	3	5	4	2	2	1	5	6
total	6	12	10	12	13	9	11	12	5	9	6	10	7	7	8	9	9	6	7	9	12	11

Workers' number of workplace of fatal accidents in other waste disposal service in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	1	2	5	5	7	3	4	4	1	1	3	1	0	0	2	4	3	1	2	2	5	3
10-29	3	7	4	3	5	3	5	4	0	4	2	5	3	3	3	3	3	2	3	5	3	3
30-49	1	2	1	4	1	0	1	3	3	3	1	2	2	1	2	0	2	1	1	1	3	3

50-99	1	1	0	0	0	0	0	0	1	1	0	1	2	1	1	2	0	2	1	1	1	1
100-299	0	0	0	0	0	3	1	1	0	0	0	1	0	2	0	0	1	0	0	0	0	1
300 workers or more	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	6	12	10	12	13	9	11	12	5	9	6	10	7	7	8	9	9	6	7	9	12	11

Month of fatal accidents in other waste disposal service in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	0	0	0	0	0	1	0	1	1	1	1	0	0	1	0	1	0	2	1	1	0	0
February	0	2	0	2	1	1	1	2	0	0	1	2	0	0	0	1	0	0	0	0	0	0
March	0	0	1	2	1	2	1	1	0	1	1	1	5	0	0	1	0	0	0	1	1	2
April	1	0	2	0	2	2	1	1	0	0	0	0	0	0	2	0	0	1	0	0	1	0
May	0	0	2	3	0	1	1	1	0	0	1	0	1	0	0	0	4	0	1	0	2	1
June	1	1	2	0	2	1	1	1	0	0	1	1	1	1	0	1	0	2	0	1	0	1
July	1	2	2	1	0	0	1	1	1	3	0	0	0	1	0	1	0	0	0	1	1	1
August	0	1	1	0	0	0	0	2	2	2	0	0	0	2	1	0	1	0	3	2	2	2
September	1	0	0	0	0	0	2	0	0	0	1	2	0	1	1	2	1	1	0	1	2	1
October	1	2	0	1	2	1	2	0	0	0	0	1	0	1	1	2	0	0	0	0	0	2
November	1	3	0	1	4	0	1	0	1	1	0	2	0	0	3	0	2	0	1	2	2	1

Okayama	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hiroshima	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Yamaguchi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	
Tokushima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kagawa	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
Ehime	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0	0	1	
Kochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
Fukuoka	0	1	0	1	1	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	
Saga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
Nagasaki	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
Kumamoto	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	
Oita	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
Miyazaki	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kagoshima	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	
Okinawa	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	
total	6	12	10	12	13	9	11	12	5	9	6	10	7	7	8	9	9	6	7	9	12	11

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

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