

Fatal and non-fatal accidents in other waste disposal service in Japan in 1999-2022

other waste disposal service industry Code No.150103

Type of accidents in other waste disposal service 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	121	122	125	123	137	149	139	140	147	142	90	118	106	100	117	146	103	129	112	117	123	144	150	123	3,023
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	186	203	3,983
crash	72	69	54	79	82	96	93	91	87	80	95	85	83	81	60	71	64	67	66	67	64	73	76	81	1,836
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	32	44	1,204
collapse	7	11	10	19	23	15	8	13	15	11	6	7	11	5	11	12	11	11	6	4	11	5	12	15	259
crashed by	39	28	36	43	42	37	48	46	42	41	45	32	28	30	36	23	24	40	26	28	36	39	37	34	860
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	134	129	3,476
cut	62	59	60	68	71	69	66	81	57	60	61	58	57	55	64	52	49	46	42	44	46	53	47	59	1,386
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	8	6	124
drown			1				1	1				1	3				1								8
contact to high/low-temperature	6	10	9	9		13	10	11	10	13	7	7	12	11	5	8	9	10	3	19	16	19	12	14	243

contact to harmful substance	4	4	2	4	6	9	5	2	6	1	1	6	3	2	3	1	5	2		1	8	6	3	4	88
electric shock	1																	1			1	1	1		5
explosion	2		3	3	1	1	2	2	1						1	1	1	2			1	3	1		25
burst		1			1	1			1		1	3	1		2	1	1		2			1	2	2	20
fire	2						1				1			1						3					8
traffic accident (public road)	41	50	35	50	52	55	60	58	66	43	25	56	44	61	59	53	58	31	45	46	48	38	36	40	1,150
traffic accident (others)					1				1			1	2		1		2		1					3	12
reaction to motion/improper motion	254	227	190	226	315	242	304	255	249	250	221	217	228	200	181	178	134	167	169	149	174	239	232	234	5,235
others	13	8	5	9	10	8	12	12	10	8	10	7	10	7	3	8	7	5	2	9	9	34	40	11	257
unclassifiable	2	1	1	5		3	1	1	4		2		3	1	1	2		2	1	1	1	2		1	35
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	1,009	1,003	23,237

Causal agents (large) of fatal and non-fatal accidents in other waste disposal service 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	51	36	37	49	67	63	55	51	55	55	50	61	41	42	54	43	40	44	47	48	52	48	42	35	1,166
crane, conveying machine	279	276	268	286	330	325	342	300	295	339	249	295	273	290	287	304	285	251	230	226	255	301	287	270	6,843

manufacturing machine	8	5	7	8	6	5	9	11	6	4	4	16	6	4	5	10	5	5	6	3	5	5	2	5	150
general machine	28	21	15	27	36	36	24	23	30	35	27	21	17	15	27	17	21	24	23	21	28	30	19	14	579
mobile silviculture machine																					1				1
crane	6	4	1	6	8	8	8	6	4	6	9	6	9	8	11	4	6	9	4	2	4	3	3	6	141
conveying machine	235	237	242	244	295	281	289	253	251	300	216	245	221	242	235	254	239	216	191	188	225	268	252	228	5,847
vehicle	38	35	25	36	27	36	45	41	40	33	24	44	43	40	41	46	40	26	35	36	26	30	32	36	855
pressure vessel		1	1					1		3	1			1	1										9
chemical facilities			1				1							1											3
welding equipment		1	1	2			1				1		1			2	1	1		1	3	2	2		19
kiln, caldron	2	3	1	3		1	3	3		5	2	1		1	1	1		3		2	1	2	4	1	40
electric equipment	2	1	2		2	1			1			1			1		1	1	1			1	1		16
human power machine, tools	10	8	14	15	22	10	18	18	23	27	19	18	17	17	20	11	27	15	5	19	18	20	19	22	412
tools	24	25	37	35	51	43	32	40	49	60	33	40	34	25	36	30	37	36	26	37	47	57	34	51	919
other equipments, facilities	18	19	10	20	22	16	20	25	29	21	14	24	27	19	20	16	23	25	21	16	24	27	36	34	526
temporary buildings, establishments	200	210	170	254	281	271	255	257	245	227	211	222	223	234	207	203	170	221	216	214	229	258	267	269	5,514

other general power machines			13		27		17	18	25	28	23	20	17	12	25	15	17	19	18	16	19	26	17	11	383
felling machine																					1				1
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane			1		2		3	2	2	2	3	2	5	2	3	1	3	4	1	1	1	1		2	41
mobile crane					5		4	3	2	4	5	4	3	6	8	3	2	4	3	1	2	2	3	4	68
derrick crane																									
elevator, lift													1								1				2
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane					1		1	1			1						1	1							6

other welding equipment												1												1	
kiln, caldron			1				3	2		3	2	1			1			3		2		2	2	1	23
industrial dryer								1												1		1		3	
other kiln, caldron										2				1		1							1	5	
transmission					2				1			1				1		1					1	7	
electric power facilities																									
other electrical equipment			2												1			1					1	5	
human power cranes					1				2	1						1	1			1		2		2	11
human power hauling equipment			2		8		10	3	9	15	8	7	9	12	8	5	10	6	2	9	3	10	5	3	144
human power machine			1		1								1										2	5	
hand tool			11		12		8	15	12	11	11	11	7	5	12	5	16	9	3	9	15	8	12	17	209
ladder			12		13		10	20	20	26	16	15	15	10	8	11	18	13	7	17	16	26	13	24	310
slinging tool			1		1			2	3	1						1	1	2					2		14
other tools			24		37		22	18	26	33	17	25	19	15	28	18	18	21	19	20	31	29	21	27	468
other equipment, facilities			10		22		20	25	29	21	14	24	27	19	20	16	23	25	21	16	24	27	36	34	453
scaffolding			1		3			2	4	1				1		2		1					1	2	18

metal material			24		28		26	32	24	20	32	22	21	18	24	21	18	19	18	11	25	20	16	18	437
lumber, bamboo			12		10		11	7	5	10	13	6	15	4	7	9	9	6	9	5	5	5	6	6	160
stone, sand, substance			7		6		3	6	6	4	4	1	3	4	7	1	1	3	1	3	2	2	4	4	72
other materials			37		39		47	49	34	44	29	28	46	30	42	45	30	31	25	24	32	38	26	27	703
load			134		191		148	163	141	119	120	100	111	91	77	94	71	99	82	56	81	124	94	119	2,215
machine/equipment as load			3		5		6	7		5	3	3	7	1	5	2	3	3	5	3	1	2	4	5	73
natural ground, rock			7		6		5	6	10	3	3	6	6	1	6	4	4	2	2	2	2	2	3		80
standing tree			6		3		2	1	2	1	1	1	1	1			3	3	2	3		2	1	4	37
water			1				4	1			1	2	9		1	1	1	1	1	1					24
abnormal environment			2					1													2	2			7
high/cold temperature environment			5				2	5	5	6	2	6	7	8	5	4	7	7	3	16	11	14	9	11	133
other environments			19		11		14	17	8	19	13	17	29	20	17	20	18	20	25	19	20	23	23	38	390
other causal agent			18		33		19	17	33	35	14	15	28	15	14	19	10	15	16	11	15	46	45	9	427
no causal agent			45		80		105	95	82	71	64	55	74	67	63	63	54	58	45	56	60	67	80	71	1,355
unclassifiable			4		1		2	3	4	1	4	2	5	3		2	1	1	1			2		3	39
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	1,009	1,003	23,237

Workers age of fatal and non-fatal accidents in other waste disposal service 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	14	12	12	10	13	14	16	14	16	17	5	8	11	9	10	15	5	15	6	4	4	11	11	16	268
20-29	215	172	158	188	209	193	176	165	133	149	117	105	123	102	101	98	85	86	69	78	75	108	102	117	3,124
30-39	226	236	210	268	323	320	358	344	282	287	233	240	210	216	202	162	175	140	153	140	147	165	170	151	5,358
40-49	206	185	156	201	242	226	234	223	239	222	233	248	293	257	232	277	219	252	190	204	219	261	238	215	5,472
50-59	223	239	223	241	268	241	218	242	263	237	187	184	193	185	195	207	205	211	207	216	261	306	268	279	5,499
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	220	225	3,516
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	1,009	1,003	23,237

Workers' number of workplace of fatal and non-fatal accidents in other waste disposal service 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	143	144	157	170	174	173	154	150	144	148	124	154	140	122	120	101	130	106	90	85	111	101	103	92	3,136
10-29	246	239	215	231	258	227	256	246	255	256	207	233	243	211	214	232	201	224	197	206	255	287	259	255	5,653
30-49	94	108	122	126	129	113	128	128	140	174	145	142	162	139	142	145	144	149	138	160	184	208	194	193	3,507
50-99	168	140	158	205	233	226	240	279	255	239	210	193	211	239	223	244	205	223	211	187	207	286	276	281	5,339
100-299	269	267	201	262	377	353	344	299	261	257	199	207	221	186	199	173	140	167	144	139	130	182	166	178	5,321
300 workers or more	67	42	20	30	27	24	8	7	5	6	2	3	4	3	1	1	1	1	3	1	3	7	11	4	281

Hokkaido	66	38	45		42		47	39	48	59	49	50	60	51	42	43	59	51	53	44	68	77	52	70	1,153
Aomori	13	6	17		13		4	5	4	2	4	4	6	4	3	10	10	13	13	8	11	8	14	12	184
Iwate	8	2	3		6		5	4	5	4	5	5	5	6	10	8	9	10	5	6	4	6	3	5	124
Miyagi	37	21	17		41		29	27	19	25	15	27	29	25	57	31	21	16	6	16	17	17	23	19	535
Akita	14	8	13		12		6	8	5	7	3	9	7	11	5	9	7	4	5	8	11	8	7	6	173
Yamagata	9	9	5		4		4	2	6	3	1	8	6	2	7	8		4	5	2	4	6	6	2	103
Fukushima	9	14	11		9		12	10	13	12	8	12	16	13	13	16	19	13	17	21	9	13	26	14	300
Ibaraki	15	6	8		12		12	16	14	9	10	13	8	7	11	9	10	9	11	11	14	11	12	11	239
Tochigi	4	6	8		8		8	7	7	7	4	7	6	6	6	4	10	8	5	5	13	9	12	4	154
Gunma	13	13	18		8		8	14	10	5	5	17	10	12	6	5	8	11	7	7	6	5	12	12	212
Saitama	19	28	22		25		30	19	17	33	24	21	25	23	22	19	32	28	28	34	47	39	35	39	609
Chiba	42	57	43		55		39	55	53	63	30	30	48	40	46	34	20	25	19	39	45	62	50	40	935
Tokyo	33	54	74		96		83	80	63	103	87	81	85	63	82	106	91	67	61	59	79	167	136	165	1,915
Kanagawa	102	97	100		76		82	71	66	64	54	53	64	45	53	60	51	43	50	45	48	67	47	49	1,387
Niigata	24	24	32		24		23	31	16	28	15	12	19	22	22	17	18	19	18	19	22	21	25	25	476
Toyama	6	8	7		5		4	5	9	6	3	4	6	4	4	2	4	5	1	5	4	5	1	6	104
Ishikawa	7	10	14		6		9	7	10	8	8	7	3	5	6	6	2	9	8	4	2	10	4	2	147
Fukui	5	11	8		8		3	7	1	8	7	8	5	8	6	12	11	6	7	6	9	9	14	8	167
Yamanashi	4	5	1		3		6	4	4	3	1	1		1	3	4	6	6		2	1	3	4	3	65
Nagano	6	12	8		8		14	13	20	18	14	12	12	17	15	11	8	14	7	16	11	12	13	16	277
Gifu	11	15	13		6		11	13	19	15	21	9	16	15	8	14	16	11	10	9	12	13	13	11	281
Shizuoka	26	22	15		25		19	20	31	27	16	24	18	18	15	19	17	26	16	25	32	30	19	23	483

June	1	1	2		2	1	1	1			1	1	1	1		1		2		1		1			18
July	1	2	2	1			1	1	1	3				1		1				1	1	1	1		18
August		1	1					2	2	2				2	1		1		3	2	2	2			21
September	1						2				1	2		1	1	2	1	1		1	2	1			16
October	1	2		1	2	1	2					1		1	1	2						2	1		17
November	1	3		1	4		1		1	1		2			3		2		1	2	2	1		2	27
December		1		2	1			2		1		1					1		1		1		2		13
total	6	12	10	12	13	9	11	12	5	9	6	10	7	7	8	9	9	6	7	9	12	11	5	4	209

Prefecture of fatal accidents in other waste disposal service 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	2	1	2			1	5		1		2			1											15
Aomori										1													1		2
Iwate			1										1			1						1			4
Miyagi						1							3								1				5
Akita		1														1									2
Yamagata		1																							1
Fukushima		1																							1
Ibaraki			1	1	2		1	1	1			1			1			1		1		2			13
Tochigi		1													1								1		3
Gunma	1	2	1	2																1					7

Okayama				2				1													1			4	
Hiroshima				1		1				1														3	
Yamaguchi															1				1	1		1		4	
Tokushima																									
Kagawa		1								1														2	
Ehime								1						1	1	1						1		5	
Kochi																		1						1	
Fukuoka		1		1	1			1		1			1											6	
Saga																		1						1	
Nagasaki														1										1	
Kumamoto				1		1		1										1						4	
Oita		1			1														1					3	
Miyazaki								1																1	
Kagoshima	1												1						1			1		4	
Okinawa								1								1		1				1		4	
total	6	12	10	12	13	9	11	12	5	9	6	10	7	7	8	9	9	6	7	9	12	11	5	4	209

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