

Industrial accidents in industrial waste management service in Japan in 1999-2020

industrial waste management service industry Code No.150102

Type of accidents in industrial waste management 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	179	216	211	211	204	228	232	255	271	275	243	215	242	255	286	266	259	279	296	289	323	360
falling to same level	97	103	115	124	111	105	111	129	127	154	137	131	160	154	171	153	177	203	164	203	223	184
crash	63	56	60	45	65	74	62	54	72	81	62	65	62	60	78	74	85	69	73	72	96	106
struck by flying or falling object	96	93	95	65	106	94	112	122	120	86	88	93	96	109	110	104	97	118	119	111	125	125
collapse	19	16	13	17	15	23	14	21	31	32	25	23	17	17	25	16	24	28	30	20	18	29
crashed by	54	60	68	70	49	67	65	66	65	66	47	56	55	75	78	70	64	60	80	65	82	81
caught in/between	179	190	214	225	252	233	242	251	264	275	244	248	255	275	262	263	281	263	291	267	287	276
cut	47	45	55	67	57	55	72	74	76	87	59	80	86	72	60	90	73	77	74	78	93	97
injury to the sole of the foot	6	2	6	4	6	11	10	10	11	6	9	10	6	15	7	6	7	8	17	9	10	6
drown	1	0	0	-	0	-	1	0	0	2	0	1	8	0	0	1	0	0	1	0	1	0

contact to high/low-temperature	20	20	23	19	21	24	18	25	13	20	20	21	22	12	24	24	13	16	25	42	24	18
contact to harmful substance	14	7	9	7	5	6	10	9	6	10	7	10	10	11	9	12	5	14	9	15	12	12
electric shock	0	0	0	-	1	-	1	0	2	0	0	0	2	0	2	0	0	0	0	0	0	2
explosion	5	7	1	2	4	3	0	1	5	9	1	2	1	3	1	3	2	2	4	3	1	3
burst	3	0	0	1	1	1	0	3	0	1	1	1	3	1	1	1	1	4	1	1	1	2
fire	6	2	0	-	2	1	0	1	3	3	3	3	4	0	0	5	1	1	0	0	2	2
traffic accident (public road)	36	28	31	47	39	41	34	34	40	49	48	46	30	42	38	32	36	43	58	49	52	41
traffic accident (others)	0	1	0	-	1	2	1	1	0	0	0	1	0	0	1	1	1	0	1	1	2	1
reaction to motion/improper motion	89	77	109	72	89	89	117	106	109	124	108	130	100	125	101	114	143	129	134	130	163	141
others	2	5	6	4	7	6	4	3	2	3	7	6	6	5	5	7	10	5	6	9	9	14
unclassifiable	3	2	1	2	1	-	1	2	4	0	2	1	0	2	1	2	1	1	0	0	0	2
total	919	930	1,017	982	1,036	1,063	1,107	1,167	1,221	1,283	1,111	1,143	1,165	1,233	1,260	1,244	1,280	1,320	1,383	1,364	1,524	1,502

Causal agents (middle) of industrial accidents in industrial waste management 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	1	0	-	1	1	0	1	0	1	1	1	1	2	0	1	4	0	1	0
power transmission mechanism	3	7	9	9	4	2	6	7	7	4	6	9	11	4	3	9	10	4	5	7	8	7
woodworking machine	4	4	8	10	13	6	9	6	15	10	9	12	13	7	4	8	7	8	10	10	9	10
construction machine	53	36	55	45	51	65	56	56	51	58	39	44	45	58	61	54	55	65	75	59	70	64
metal manufacturing machine	7	9	12	11	15	13	18	16	22	20	10	13	20	16	11	18	20	20	16	17	22	20
general machine	30	39	45	50	59	68	52	66	75	74	60	63	65	61	53	71	67	54	60	56	68	61
mobile silviculture machine																	0	0	0	0	0	0
crane	17	18	22	19	15	27	24	21	19	15	19	21	15	33	33	20	20	25	20	26	29	18
conveying machine	295	319	312	307	329	332	339	341	381	390	344	339	388	416	411	401	414	400	435	407	440	458
vehicle	24	11	28	24	18	28	21	25	25	28	33	26	20	26	27	20	26	26	31	33	30	29
pressure vessel	2	3	1	-	2	1	2	0	0	2	0	1	5	2	2	1	2	3	1	0	0	1

chemical facilities	0	0	0	1	0	1	2	0	1	1	1	1	1	0	0	1	1	0	1	0	0	0
welding equipment	1	1	1	3	4	3	5	3	4	2	1	4	4	1	3	2	1	2	6	6	5	3
kiln, caldron	8	11	7	6	4	5	3	5	4	6	0	3	8	5	5	2	4	6	8	2	3	7
electric equipment	1	0	0	-	1	2	0	2	2	1	1	1	1	1	0	4	1	0	1	4	3	1
human power machine, tools	22	14	11	20	19	25	25	24	16	23	28	30	19	26	26	34	30	29	38	35	36	33
tools	35	36	45	41	39	43	48	42	47	58	60	44	58	66	75	54	62	70	80	73	87	88
other equipments, facilities	11	20	21	20	27	27	35	27	40	30	33	21	21	27	39	33	24	47	35	31	34	35
temporary buildings, establishments	119	142	144	143	147	144	141	176	170	194	170	176	145	154	163	176	198	216	185	212	259	224
hazards, harmful substances	26	9	16	22	13	13	13	18	16	23	17	18	14	7	10	23	10	12	17	18	16	14
materials	114	124	120	120	114	124	117	169	168	173	105	118	137	132	145	139	141	139	150	124	155	162
load	75	65	99	80	99	77	104	96	109	110	103	106	100	108	108	85	97	105	110	120	138	158
natural environment	21	12	22	10	22	15	24	21	11	12	17	30	34	42	41	27	20	32	42	64	45	39
other causal agent	20	23	16	17	10	10	22	12	7	12	18	12	7	16	11	19	23	8	20	16	12	12
no causal agent	24	26	23	22	29	31	37	30	30	34	35	46	31	22	27	39	45	45	33	43	52	53

milling machine																						
chain saw			2		2		0	1	0	1	2	1	0	0	0	2	0	0	0	3	1	1
other woodworking machines			0		2		2	0	3	4	0	3	4	0	0	0	2	1	2	1	1	2
leveling, transporting or loading machine			15		12		15	15	14	18	14	13	8	17	14	9	15	21	19	14	15	14
excavating machine			21		22		25	21	24	24	15	20	28	21	22	23	15	20	34	27	29	27
foundation work machine			0		0		0	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0
hardening machine			0		1		0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0
demolition machine			8		6		3	2	3	4	1	3	4	6	13	14	19	20	16	15	23	19
vehicle for high lift work			0		0		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
other construction machines			11		10		13	15	9	11	9	8	5	14	12	7	5	2	6	3	3	4
lathe			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drill press, milling machine			0		0		1	0	0	1	0	0	1	2	0	0	0	0	0	0	0	0
grinding machine, buffing machine			3		5		3	3	8	8	3	3	5	3	1	5	7	7	2	7	6	9

power press			1	0		2	2	0	1	1	0	2	2	3	2	2	2	2	0	1	1
forging pressure hammer			0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
shearing machine			2	1		3	2	1	2	1	2	2	6	1	3	4	2	4	2	3	2
other metal manufacturing machines			6	9		9	9	13	8	5	8	10	3	6	8	7	9	8	8	12	8
centrifugal machine			0	0		0	0	0	1	1	0	0	1	1	1	0	0	0	0	1	0
mixer, grinder			9	16		16	16	24	20	20	15	11	15	16	19	19	12	13	13	16	14
roll machine (except printingroll machine)			0	1		1	0	0	1	1	0	3	2	0	1	2	0	0	1	0	0
injection molding machine			0	0		0	0	0	1	1	3	1	0	1	0	0	0	2	0	1	0
food manufacturing machine			1	0		0	0	0	0	0	1	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
industrial robot			0	0		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
other general power machines			35	42		35	50	51	51	37	44	50	43	34	50	46	42	45	42	50	47
felling machine																0	0	0	0	0	0

mobile logging machine																	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			7		1		7	7	2	5	6	6	0	8	8	4	2	5	2	3	2	1
mobile crane			14		14		14	14	13	10	12	13	15	25	24	15	16	16	17	19	26	17
derrick crane			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
elevator, lift			0		0		0	0	1	0	0	1	0	0	0	0	0	0	1	2	1	0
cargo lifting appliance			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
lumberyard equipment, logging cableway			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			1		0		3	0	3	0	1	1	0	0	1	1	2	4	0	2	0	0
truck			210		212		229	230	254	255	234	236	250	274	292	264	274	280	300	265	328	337

forklift			32		36		38	32	26	40	32	39	37	49	46	40	54	43	47	44	39	42
railway equipment			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveyor			50		58		49	51	72	65	64	47	72	66	55	72	71	49	57	67	46	56
loader			3		8		0	2	2	3	4	3	7	7	3	3	2	5	5	5	3	2
straddle carrier			0		0		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
rough terrain hauler			0		0		1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2
other powered conveying machines			17		15		22	26	27	27	9	14	22	20	15	21	13	22	26	26	24	18
cars, bus, motorcycle			26		17		20	22	22	27	32	26	16	24	24	20	25	25	31	32	25	29
railway vehicle			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other vehicles			2		1		1	3	3	1	1	0	4	2	3	0	1	1	0	1	5	0
boiler			0		0		0	0	0	0	0	0	0	1	1	1	0	1	1	0	0	0
pressure vessel			0		1		0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1
other pressure vessels			1		1		2	0	0	2	0	1	4	1	1	0	1	1	0	0	0	0
chemical facilities			0		0		2	0	1	1	1	1	1	0	0	1	1	0	1	0	0	0
gas welding equipment			0		4		5	2	3	2	1	4	4	1	1	1	0	2	5	5	3	1
arc welding equipment			0		0		0	0	1	0	0	0	0	0	2	0	1	0	1	1	0	0

other equipment, facilities			21	27		35	27	40	30	33	21	21	27	39	33	24	47	35	31	34	35
scaffolding			0	2		2	5	6	6	2	4	2	5	2	5	3	3	2	6	2	4
timbering			0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stairs, landing stage			22	16		6	26	17	14	16	17	19	21	13	22	18	19	17	29	35	21
opening			8	2		5	5	4	8	5	2	5	7	5	7	3	3	2	7	9	8
roof, beam, haze, crossbeam, principal rafter			6	7		5	3	2	5	3	1	2	6	3	4	2	5	2	1	2	1
working platform, boot board			19	26		20	28	32	42	31	35	21	21	37	41	35	32	33	26	33	27
passage			51	48		46	64	52	62	61	66	56	58	63	61	79	96	79	89	107	90
building, establishment			28	31		30	28	39	34	28	28	29	16	24	27	27	38	32	33	36	41
other temporary buildings, establishments			10	15		27	17	18	23	24	23	11	20	16	9	31	20	18	21	35	32
explosive substance			2	0		2	1	1	0	0	0	0	1	0	0	1	2	1	0	0	0
inflammable substance			3	3		1	1	6	3	2	2	1	0	1	5	2	0	4	1	2	3
inflammable gas			2	3		1	0	0	4	4	3	0	0	1	4	0	0	1	1	1	1

harmful substance			6	1		4	6	6	7	3	6	9	5	5	3	3	5	4	7	10	7	
radiation			0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances			3	6		5	10	3	9	8	7	4	1	3	11	4	5	7	9	3	3	
metal material			55	48		54	70	88	88	48	64	64	52	55	57	63	63	69	56	70	65	
lumber, bamboo			16	15		15	26	21	14	13	8	19	14	11	20	20	14	20	14	22	17	
stone, sand, substance			4	11		10	15	8	17	11	9	9	12	10	13	11	8	12	6	7	13	
other materials			45	40		38	58	51	54	33	37	45	54	69	49	47	54	49	48	56	67	
load			94	92		98	89	103	102	92	96	93	99	99	81	88	99	104	114	135	152	
machine/equipment as load			5	7		6	7	6	8	11	10	7	9	9	4	9	6	6	6	3	6	
natural ground, rock			3	8		4	5	3	4	6	4	3	5	5	1	3	1	9	5	4	3	
standing tree			2	1		3	1	3	1	1	2	2	3	1	3	2	2	3	0	1	4	
water			1	2		0	1	1	0	0	1	11	2	2	1	0	1	1	1	2	0	
abnormal environment			0	0		0	0	0	0	0	1	0	2	0	0	0	2	1	1	0	2	
high/cold temperature environment			8	3		1	3	1	3	3	12	5	9	10	8	4	8	7	25	12	8	

other environments			8		8		16	11	3	4	7	10	13	21	23	14	11	18	21	32	26	22
other causal agent			16		10		22	12	7	12	18	12	7	16	11	19	23	8	20	16	12	12
no causal agent			23		29		37	30	30	34	35	46	31	22	27	39	45	45	33	43	52	53
unclassifiable			0		2		3	3	1	2	2	4	2	2	1	2	2	3	0	1	2	5
total			1,017		1,036		1,107	1,167	1,221	1,283	1,111	1,143	1,165	1,233	1,260	1,244	1,280	1,320	1,383	1,364	1,524	1,502

Workers age of industrial accidents in industrial waste management 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	16	13	20	19	26	20	19	9	12	10	6	13	12	12	20	14	13	18	11	21	15	8
20-29	192	184	212	172	167	169	179	214	172	169	143	145	140	124	131	124	119	123	125	129	130	125
30-39	193	218	189	248	245	270	282	270	309	318	291	270	275	284	274	249	263	249	260	232	265	249
40-49	184	181	190	157	200	181	191	227	231	266	242	245	267	303	323	328	339	362	367	367	392	393
50-59	218	223	264	249	252	260	262	285	309	291	238	267	265	260	281	260	286	313	337	306	368	379
60 years old or more	116	111	142	137	146	163	174	162	188	229	191	203	206	250	231	269	260	255	283	309	354	348
total	919	930	1,017	982	1,036	1,063	1,107	1,167	1,221	1,283	1,111	1,143	1,165	1,233	1,260	1,244	1,280	1,320	1,383	1,364	1,524	1,502

Workers' number of workplace of industrial accidents in industrial waste management 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	266	298	288	304	299	296	290	322	258	293	247	240	253	292	297	264	305	263	288	255	297	286
10-29	313	337	368	336	384	390	404	404	433	457	376	438	434	429	451	475	435	464	509	483	534	520
30-49	129	132	180	154	176	182	196	208	278	262	219	213	211	239	254	230	259	274	268	300	318	330
50-99	133	113	133	120	135	138	140	127	137	164	147	147	170	158	156	163	165	183	201	189	249	235
100-299	69	46	48	61	42	55	74	105	102	97	112	92	95	107	86	105	106	128	110	132	122	127
300 workers or more	9	4	0	7	0	2	3	1	13	10	10	13	2	8	16	7	10	8	7	5	4	4
total	919	930	1,017	982	1,036	1,063	1,107	1,167	1,221	1,283	1,111	1,143	1,165	1,233	1,260	1,244	1,280	1,320	1,383	1,364	1,524	1,502

Month of industrial accidents in industrial waste management 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	93	77	76	71	75	86	79	88	90	106	95	72	77	90	102	104	105	117	113	117	138	109
February	60	76	84	79	79	94	89	103	75	104	87	100	110	103	105	104	111	109	115	111	140	116
March	82	77	100	99	92	99	94	112	105	93	103	98	109	137	106	104	126	114	121	101	119	124
April	75	72	99	96	82	99	83	91	111	123	95	98	97	111	110	83	116	115	119	101	111	114
May	68	77	86	89	84	75	100	97	112	113	81	102	84	100	79	108	97	111	93	93	127	122
June	101	85	85	73	81	84	97	98	94	119	96	97	106	96	114	96	106	116	115	119	148	146
July	89	74	91	86	102	94	96	102	118	95	91	121	113	123	127	131	121	119	123	163	133	148

Saitama	59	54	92		76		81	77	85	90	72	59	75	82	96	97	99	108	103	82	116	116
Chiba	51	49	32		47		40	53	58	65	64	54	34	44	66	53	58	56	81	73	66	61
Tokyo	92	88	70		70		74	89	91	96	86	96	82	85	82	84	92	70	99	106	113	107
Kanagawa	89	96	81		74		102	121	113	121	98	110	93	109	113	108	95	127	97	95	114	106
Niigata	15	15	16		24		21	23	15	23	15	26	22	20	22	24	20	23	18	22	24	19
Toyama	6	12	8		8		6	9	14	22	15	8	13	22	8	16	11	12	13	11	17	8
Ishikawa	10	7	6		7		8	7	12	13	11	17	16	17	15	18	14	13	22	21	15	11
Fukui	10	7	9		5		5	4	15	13	8	8	13	13	13	7	13	6	13	13	6	10
Yamanashi	1	2	6		10		6	3	6	14	8	5	6	7	7	11	6	14	7	2	12	7
Nagano	24	23	47		37		24	37	33	20	25	25	28	29	27	15	28	21	27	29	32	33
Gifu	7	7	14		19		20	15	18	19	18	15	16	20	11	13	14	12	17	11	16	10
Shizuoka	31	42	45		46		52	52	51	63	40	48	45	43	45	50	53	62	48	36	40	51
Aichi	34	40	42		65		58	65	71	66	60	67	77	59	65	77	72	53	53	89	71	108
Mie	28	22	22		15		17	18	29	35	21	17	18	22	22	29	21	20	22	32	32	21
Shiga	8	13	10		5		8	10	17	18	14	9	8	24	9	22	13	10	18	17	13	15
Kyoto	8	30	16		8		13	17	19	15	15	20	23	33	26	26	22	35	30	30	27	21
Osaka	55	40	53		45		59	34	45	49	64	39	43	30	44	48	41	60	60	63	87	52
Hyogo	44	32	37		34		33	43	45	45	25	51	35	41	58	35	50	51	41	38	44	64
Nara	18	15	16		8		10	8	8	3	8	6	11	9	10	11	12	15	11	9	9	16
Wakayama	4	2	4		13		15	11	10	7	11	8	10	15	9	5	11	8	12	13	17	10

Tottori	1	1	6		6		9	5	10	13	4	6	8	8	8	9	12	9	5	7	6	10
Shimane	5	12	13		11		4	6	10	9	11	5	5	8	12	5	8	9	8	6	7	6
Okayama	12	5	6		18		12	21	15	9	22	16	19	17	23	24	21	26	31	20	30	18
Hiroshima	43	46	40		30		40	49	38	37	31	28	43	52	33	44	36	49	44	43	51	43
Yamaguchi	4	3	7		12		12	10	8	6	13	5	7	12	5	8	5	8	12	6	8	12
Tokushima	3	2	9		4		7	4	6	11	7	5	4	5	4	11	10	8	6	19	12	14
Kagawa	3	9	7		12		18	10	6	12	13	11	15	13	11	9	7	5	11	13	18	22
Ehime	15	14	5		12		10	15	12	12	10	15	7	17	16	12	17	17	16	8	18	19
Kochi	7	7	12		8		11	7	7	3	7	8	11	5	7	11	4	2	10	12	7	13
Fukuoka	38	31	31		35		44	54	42	35	51	50	44	47	38	52	47	49	68	62	77	67
Saga	11	11	13		7		20	10	7	17	9	11	9	14	20	10	9	14	10	14	18	19
Nagasaki	17	20	24		26		28	22	36	23	24	17	20	17	21	12	29	20	16	20	17	31
Kumamoto	16	6	11		5		15	10	19	26	15	16	17	14	14	20	16	29	24	27	23	26
Oita	9	5	17		11		15	15	36	31	19	17	25	26	28	17	19	17	16	16	23	22
Miyazaki	3	10	7		10		9	8	9	7	10	16	17	14	10	14	11	12	15	16	21	17
Kagoshima	11	4	4		8		15	18	8	18	19	13	19	9	10	13	28	20	23	13	25	30
Okinawa	4	1	3		0		1	5	5	7	2	6	5	8	3	10	7	8	10	4	9	5
total	919	930	1,017		1,036		1,107	1,167	1,221	1,283	1,111	1,143	1,165	1,233	1,260	1,244	1,280	1,320	1,383	1,364	1,524	1,502

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

total	22	27	24	25	18	17	27	19	14	23	19	24	31	19	23	18	18	16	18	22	15	26
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Workers age of fatal accidents in industrial waste management 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	1	0	1	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0
20-29	3	3	6	3	0	4	1	0	2	2	3	5	3	0	1	1	1	2	2	1	0	2
30-39	2	7	4	6	4	0	3	3	2	4	3	2	4	5	3	2	2	1	2	4	2	6
40-49	3	2	4	3	4	3	1	5	3	5	1	3	5	3	3	2	5	1	2	4	3	6
50-59	8	7	9	3	5	3	10	5	3	5	7	6	8	7	6	4	3	8	10	4	3	3
60 years old or more	6	8	1	9	5	6	12	6	4	7	5	8	11	2	9	9	7	4	2	9	7	9
total	22	27	24	25	18	17	27	19	14	23	19	24	31	19	23	18	18	16	18	22	15	26

Workers' number of workplace of fatal accidents in industrial waste management 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	7	9	8	9	7	5	10	6	4	7	4	4	5	12	7	7	6	4	7	6	6	7
10-29	7	12	6	12	7	6	10	8	4	7	12	13	14	5	8	9	10	4	6	7	4	13
30-49	1	5	5	2	2	5	6	3	4	7	2	2	2	1	8	2	1	3	0	5	2	3
50-99	5	1	4	1	1	1	1	1	2	1	0	3	8	0	0	0	1	2	4	2	2	2
100-299	2	0	1	1	1	0	0	1	0	0	1	2	2	1	0	0	0	3	1	2	1	1

300 workers or more	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
total	22	27	24	25	18	17	27	19	14	23	19	24	31	19	23	18	18	16	18	22	15	26

Month of fatal accidents in industrial waste management 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	4	0	0	2	2	4	1	1	0	5	3	2	1	1	2	2	2	2	1	4	1	3
February	0	1	3	2	0	2	1	2	0	1	0	2	2	0	2	2	1	0	2	2	1	2
March	4	5	3	3	1	0	4	3	1	1	1	4	12	3	2	2	1	3	1	2	1	0
April	0	2	4	4	0	0	4	3	1	5	1	1	3	2	1	2	2	2	1	1	1	4
May	2	3	1	3	1	1	2	1	3	1	4	1	0	3	1	3	1	2	3	1	1	0
June	1	3	2	2	1	1	1	0	1	1	3	1	1	1	2	1	2	0	1	0	2	0
July	2	2	2	1	3	0	2	2	1	0	1	3	1	1	2	2	1	2	0	1	1	2
August	1	2	2	2	0	0	3	0	2	0	2	0	1	0	1	0	2	0	2	3	1	5
September	3	3	1	1	1	1	1	3	1	2	2	1	2	1	2	1	2	1	1	6	0	3
October	4	3	2	1	6	0	3	2	0	2	1	3	0	3	2	0	2	1	5	1	3	3
November	1	2	1	3	2	4	2	0	4	2	0	5	4	1	3	2	1	1	0	0	3	2
December	0	1	3	1	1	4	3	2	0	3	1	1	4	3	3	1	1	2	1	1	0	2
total	22	27	24	25	18	17	27	19	14	23	19	24	31	19	23	18	18	16	18	22	15	26

Prefecture of fatal accidents in industrial waste management service in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	0	3	0	3	1	1	1	0	1	1	3	2	2	1	0	0	0	0	1	1	1	1
Aomori	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Iwate	0	1	0	0	0	0	0	1	0	1	0	0	2	1	1	0	0	0	0	1	0	1
Miyagi	0	0	0	1	1	1	0	0	0	0	0	0	7	0	0	1	0	0	2	1	0	1
Akita	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0
Yamagata	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0
Fukushima	0	0	2	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0
Ibaraki	0	0	0	1	0	0	0	0	2	0	1	2	1	3	1	0	0	1	0	0	0	2
Tochigi	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Gunma	0	1	0	2	1	1	1	1	0	0	1	0	0	0	2	0	1	1	0	1	0	0
Saitama	2	1	2	4	3	0	2	2	0	2	1	4	0	1	3	0	2	3	0	1	2	1
Chiba	4	1	0	0	0	2	3	2	2	1	1	0	0	0	1	1	2	0	1	1	0	1
Tokyo	0	2	1	1	1	2	2	0	2	1	0	1	0	0	3	1	1	0	1	0	0	0
Kanagawa	0	1	3	1	0	0	3	0	0	2	1	2	1	1	2	0	1	0	1	2	1	2
Niigata	1	1	1	0	0	1	0	0	0	0	0	1	1	0	0	1	3	0	1	0	0	0
Toyama	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	2	0	1	0	1
Ishikawa	0	1	1	0	0	0	0	0	0	1	2	0	0	0	0	1	1	0	0	0	0	0

Ehime	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0
Kochi	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
Fukuoka	4	1	1	1	0	0	1	0	0	0	1	0	0	2	2	0	0	1	0	0	2	0
Saga	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Nagasaki	0	0	1	0	1	0	0	2	0	0	1	1	0	1	0	1	0	0	0	0	0	0
Kumamoto	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	1	1
Oita	0	0	0	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	2
Miyazaki	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0
Kagoshima	0	0	0	1	0	1	0	0	0	1	0	1	0	1	0	0	1	0	2	0	2	0
Okinawa	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
total	22	27	24	25	18	17	27	19	14	23	19	24	31	19	23	18	18	16	18	22	15	26

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

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