

Industrial accidents in port cargo handling service in Japan in 1999-2020

port cargo handling service industry Code No.050202

Type of accidents in port cargo handling 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	82	102	104	90	83	74	98	83	86	73	70	57	59	65	45	65	64	50	53	56	75	77
falling to same level	43	35	39	41	35	34	41	40	32	20	22	34	36	29	27	33	20	25	28	30	34	22
crash	23	32	31	40	32	26	33	21	18	23	16	22	17	16	19	17	17	14	23	16	26	16
struck by flying or falling object	56	45	54	47	39	49	37	31	34	33	22	23	15	21	20	34	19	27	13	23	24	18
collapse	17	18	24	13	12	9	14	18	12	19	6	13	10	9	14	11	10	6	4	5	7	10
crashed by	40	44	37	43	35	36	30	40	33	28	23	23	24	26	24	22	20	21	17	24	14	23
caught in/between	83	91	98	89	99	95	73	60	65	60	40	54	57	42	38	50	37	41	48	46	45	39
cut	4	10	16	9	12	8	5	10	6	9	8	5	2	4	4	2	5	3	5	4	6	8
injury to the sole of the foot	0	0	2	1	2	0	0	1	1	0	0	0	0	1	0	0	3	2	0	0	0	1
drown	0	0	0	3	1	1	0	0	0	1	0	0	8	0	0	0	0	1	1	0	0	0
contact to high/low-temperature	6	5	2	3	1	3	0	2	3	7	0	5	3	4	1	5	2	5	4	2	3	2
contact to harmful substance	3	2	0	3	0	-	2	1	3	2	0	0	1	2	0	0	2	0	0	1	0	0
electric shock	0	0	0	-	0	-	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0
explosion	0	0	0	-	0	-	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
burst	0	0	0	1	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
fire	1	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
traffic accident (public road)	7	5	2	3	2	4	8	3	6	2	0	7	3	3	0	2	3	1	14	6	19	5
traffic accident (others)	0	1	1	-	0	1	1	0	1	0	1	0	1	1	1	0	0	0	0	0	0	0
reaction to motion/improper motion	33	32	33	30	42	28	23	23	25	25	19	12	20	23	12	24	12	10	17	19	26	19
others	3	2	3	1	0	2	0	1	0	1	0	1	3	2	0	0	0	1	0	2	3	5

unclassifiable	0	0	0	-	1	-	1	0	0	1	1	1	0	0	0	0	0	0	0	2	0	
total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245

Causal agents (middle) of industrial accidents in port cargo handling 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	1	0	0	1	0	0	0	0	0	0	0	0
power transmission mechanism	0	0	0	-	0	2	2	0	0	0	0	0	2	1	0	0	0	0	1	1	1	0
woodworking machine	2	6	8	4	4	5	5	5	2	8	3	1	4	0	0	1	2	1	2	1	3	1
construction machine	1	1	6	5	3	8	2	5	3	5	2	5	1	2	4	4	3	5	3	4	2	5
metal manufacturing machine	0	1	1	-	1	-	1	2	1	0	1	0	0	0	1	0	0	0	2	0	0	0
general machine	0	0	1	1	3	2	1	2	1	0	1	1	1	4	1	0	0	5	1	2	2	2
mobile silviculture machine																	0	1	0	0	0	0
crane	34	52	41	32	34	41	25	29	32	26	14	20	20	13	15	22	17	21	17	6	16	15
conveying machine	64	89	77	78	76	69	67	63	61	64	48	43	48	54	43	41	48	36	49	59	39	41
vehicle	19	18	19	21	20	24	21	14	21	16	16	19	14	13	12	14	11	5	21	15	34	18
pressure vessel	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
chemical facilities	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	0	0	-	0	-	1	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0
kiln, caldron	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
electric equipment	0	0	0	1	0	-	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0
human power machine, tools	10	12	12	5	9	12	5	6	8	5	4	9	5	6	2	5	2	2	3	4	11	12
tools	65	39	74	58	60	55	57	46	40	43	26	25	32	29	35	39	29	36	30	27	33	29
other equipments, facilities	2	6	10	7	4	2	7	4	5	6	0	3	4	7	3	7	8	9	9	6	5	8
temporary buildings,	32	55	53	58	50	43	47	48	53	43	37	52	48	44	31	46	29	29	34	37	52	40

establishments																						
hazards, harmful substances	4	2	1	3	0	-	1	2	3	3	0	0	1	1	0	1	1	1	0	1	0	0
materials	57	50	40	52	47	35	54	38	46	39	22	28	25	13	26	34	20	20	19	17	29	20
load	80	81	89	78	64	52	52	58	39	36	46	41	31	40	26	33	35	24	25	37	35	36
natural environment	6	3	4	6	4	7	7	2	4	5	2	5	14	7	2	4	4	8	6	4	5	4
other causal agent	17	7	2	4	5	5	2	5	1	3	2	1	2	3	0	3	2	1	1	4	2	2
no causal agent	7	2	8	4	10	8	8	5	4	1	3	4	6	8	4	10	3	5	4	8	11	12
unclassifiable	1	0	0	-	2	-	1	0	1	0	0	1	0	1	0	1	0	0	0	0	2	0
total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245

Causal agents (small) of industrial accidents in port cargo handling service in 1999-2020

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
engine			0		0		0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
power transmission mechanism			0		0		2	0	0	0	0	0	2	1	0	0	0	0	1	1	1	0
circular sawing machine			3		3		2	2	0	2	1	0	2	0	0	1	0	1	1	0	2	0
band sawing machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wood planer machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hollow chisel mortiser, wood borer			0		0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chamfering machine, router, woodworking milling machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw			3		1		3	2	1	4	1	1	1	0	0	0	2	0	0	1	1	0
other woodworking machines			2		0		0	0	1	2	1	0	1	0	0	0	0	0	1	0	0	1
leveling, transporting or loading machine			2		0		2	2	2	4	2	3	0	2	2	0	3	2	2	2	1	4
excavating machine			3		1		0	2	1	1	0	2	1	0	1	4	0	2	0	2	1	1

machine																0	1	0	0	0	0
other mobile silviculture machine																0	0	0	0	0	0
crane			19	16	8	17	16	14	9	11	8	10	7	13	7	11	7	3	8	8	
mobile crane			12	12	10	4	8	8	3	3	8	2	2	2	8	4	6	2	5	4	
derrick crane			3	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	
elevator, lift			0	0	0	0	1	0	1	1	0	0	0	0	1	0	1	0	1	1	
cargo lifting appliance			5	5	5	6	6	3	1	3	2	1	4	4	1	6	3	1	2	2	
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	
other powered crane			2	1	2	1	0	1	0	1	1	0	2	3	0	0	0	0	0	0	
truck			25	26	26	17	22	23	17	16	17	18	9	13	19	7	20	27	16	15	
forklift			48	40	30	34	31	28	23	20	21	29	29	20	24	23	22	26	18	20	
railway equipment			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
conveyor			1	5	5	3	2	4	4	4	3	4	3	4	4	3	5	3	3	0	
loader			0	1	2	2	1	2	1	0	1	1	0	0	1	1	0	0	0	4	
straddle carrier			0	2	0	0	0	3	0	1	2	0	1	2	0	1	0	2	1	0	
rough terrain hauler			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other powered conveying machines			3	2	3	7	5	4	3	2	4	2	1	2	0	1	2	1	1	2	
cars, bus, motorcycle			5	7	7	4	8	5	0	10	3	5	4	3	4	2	10	4	21	8	
railway vehicle			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other vehicles			14	13	14	10	13	11	16	9	11	8	8	11	7	3	11	11	13	10	
boiler			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
pressure vessel			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
other pressure vessels			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
chemical facilities			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
gas welding			0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	

equipment																						
arc welding equipment			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other welding equipment			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial dryer			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
other kiln, caldron			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission			0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0
electric power facilities			0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
other electrical equipment			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power cranes			1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
human power hauling equipment			1	1	2	3	1	2	1	3	1	2	0	1	0	0	0	1	2	2		
human power machine			0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
hand tool			10	7	1	2	7	3	3	5	4	3	2	4	2	2	3	3	8	10		
ladder			21	18	19	11	10	8	7	8	5	9	11	11	6	10	8	10	9	9		
slinging tool			17	15	8	12	11	11	11	8	7	4	8	8	8	7	7	5	4	4		
other tools			36	27	30	23	19	24	8	9	20	16	16	20	15	19	15	12	20	16		
other equipment, facilities			10	4	7	4	5	6	0	3	4	7	3	7	8	9	9	6	5	8		
scaffolding			2	1	1	0	1	1	0	1	0	0	0	1	0	0	0	1	1	1		
timbering			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
stairs, landing stage			6	5	9	9	7	6	3	9	10	6	7	7	4	5	4	4	8	12		
opening			2	5	3	0	1	5	5	3	2	3	2	2	2	2	1	7	2	4		
roof, beam, haze, crossbeam, principal rafter			0	0	0	0	0	0	0	2	0	1	1	1	1	0	0	0	0	0		
working platform, boot board			17	10	7	10	9	11	10	9	14	11	7	6	4	5	6	7	10	4		
passage			16	14	16	18	21	8	10	12	13	9	8	11	11	9	15	13	16	9		
building, establishment			6	10	5	8	8	8	5	11	5	7	4	9	4	3	5	4	11	6		

19 years old or less	2	5	8	2	9	5	5	8	5	5	4	3	0	4	2	5	4	12	7	7	8	5
20-29	70	68	77	72	73	70	43	63	51	46	25	38	34	50	32	38	38	30	31	42	45	29
30-39	70	77	79	95	101	84	81	63	84	86	51	60	69	48	50	58	46	43	32	46	65	65
40-49	71	71	84	78	61	67	84	58	59	55	59	67	59	61	54	70	65	55	61	58	70	51
50-59	162	163	154	133	113	102	104	98	81	67	45	59	57	50	44	59	34	38	61	55	53	55
60 years old or more	26	40	44	37	39	42	49	44	45	45	44	32	40	35	23	35	27	31	36	26	43	40
total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245

Workers' number of workplace of industrial accidents in port cargo handling 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	39	56	53	48	43	38	34	43	35	28	18	21	24	20	18	30	20	21	22	20	23	15
10-29	92	100	105	115	110	83	77	94	88	76	61	58	51	75	51	66	47	64	51	54	68	62
30-49	41	50	77	62	75	72	60	49	52	62	47	73	51	50	36	41	43	37	58	57	62	57
50-99	108	112	114	103	107	93	94	74	69	58	57	49	51	42	36	50	45	40	46	37	60	52
100-299	96	85	84	71	46	70	93	68	72	70	38	47	70	54	56	73	50	43	44	61	66	54
300 workers or more	25	21	13	18	15	14	8	6	9	10	7	11	12	7	8	5	9	4	7	5	5	5
total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245

Month of industrial accidents in port cargo handling 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	27	34	36	30	28	30	30	23	19	20	23	17	19	21	7	25	22	18	14	16	30	24
February	34	29	33	26	21	37	28	25	24	25	15	24	23	16	17	18	13	19	28	19	33	26
March	37	51	40	33	34	32	36	27	39	21	19	24	36	29	25	24	27	17	16	15	22	16
April	24	48	42	43	35	37	24	25	24	25	22	20	18	19	21	22	17	11	15	15	25	21
May	32	43	35	35	43	28	39	31	29	28	18	26	24	22	23	15	27	13	21	23	24	21
June	28	30	47	30	33	34	41	31	22	26	8	23	18	24	12	25	15	14	12	19	22	20
July	42	28	39	44	41	34	25	25	32	34	21	16	22	25	11	24	14	19	27	23	20	17
August	31	32	37	38	29	27	29	33	25	22	20	17	7	18	26	22	16	20	18	27	21	24
September	35	30	34	32	30	25	20	32	32	23	17	23	27	19	15	20	14	18	16	19	33	21
October	40	36	41	45	32	28	24	33	38	23	26	19	24	25	16	23	17	27	27	21	13	21
November	36	26	31	31	25	31	31	25	20	31	20	24	17	10	10	25	16	19	16	15	25	18
December	35	37	31	30	45	27	39	24	21	26	19	26	24	20	22	22	16	14	18	22	16	16

total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245
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Prefecture of industrial accidents in port cargo handling 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	17	16	24		23		12	17	23	21	16	10	10	18	9	15	7	9	3	7	10	8
Aomori	5	1	1		1		5	3	2	4	2	0	0	4	1	0	3	2	1	1	3	4
Iwate	0	1	2		2		2	0	1	0	1	1	1	0	1	0	1	0	0	0	0	0
Miyagi	5	5	9		8		8	7	4	8	3	12	16	11	0	5	1	0	1	6	4	4
Akita	1	2	2		1		2	0	0	2	1	2	1	0	0	1	3	1	1	0	1	0
Yamagata	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukushima	2	0	1		1		4	2	2	2	1	4	1	5	0	0	1	1	1	3	3	2
Ibaraki	2	2	5		7		2	6	2	1	2	3	2	4	1	3	2	2	2	4	1	2
Tochigi	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gunma	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saitama	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chiba	11	13	23		10		11	12	17	5	7	9	7	6	5	12	3	7	10	6	9	7
Tokyo	19	21	16		12		13	15	6	18	16	18	19	13	15	18	12	10	18	13	25	16
Kanagawa	54	43	70		48		51	43	46	50	33	34	41	27	19	36	28	22	27	24	32	31
Niigata	3	6	2		1		3	4	5	2	1	3	1	2	4	8	4	1	2	6	7	4
Toyama	0	2	2		3		2	0	1	1	0	1	2	3	0	1	1	1	2	2	0	0
Ishikawa	0	2	4		1		0	2	1	2	0	2	0	1	2	4	0	0	1	1	2	2
Fukui	2	1	4		2		2	2	1	0	2	0	1	1	1	1	0	3	4	2	1	1
Yamanashi	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nagano	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gifu	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shizuoka	11	12	12		9		13	17	13	9	4	11	9	10	5	6	5	5	9	6	7	9
Aichi	52	62	44		45		27	32	35	27	12	30	25	25	27	36	20	20	17	27	34	29
Mie	3	6	3		3		2	0	3	0	3	0	0	3	0	0	4	0	4	2	2	4
Shiga	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyoto	1	3	2		0		2	2	0	0	1	0	1	0	2	1	1	1	1	0	2	1
Osaka	84	94	81		92		71	55	45	54	42	37	38	40	40	35	30	31	31	21	21	24
Hyogo	30	29	38		32		38	23	36	33	24	12	19	23	21	19	14	22	17	18	19	15
Nara	0	0	0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wakayama	2	3	3		0		1	1	3	0	2	0	2	1	1	0	2	0	1	0	2	3
Tottori	2	0	0		1		0	4	1	0	1	2	3	1	0	2	0	0	1	1	2	0

Shimane	0	0	0	1	1	0	1	1	1	1	0	0	1	0	0	1	0	0	0	0
Okayama	7	3	4	4	6	7	3	1	2	4	4	2	1	3	1	2	1	4	2	1
Hiroshima	22	17	19	11	15	14	20	10	12	9	8	7	8	11	10	16	6	13	12	18
Yamaguchi	7	5	8	4	7	9	3	6	1	2	4	1	0	2	2	2	4	2	4	4
Tokushima	2	2	0	4	2	5	3	1	4	1	2	1	1	2	1	0	1	1	0	2
Kagawa	6	7	5	6	7	9	5	9	3	5	5	2	2	5	10	7	3	7	7	2
Ehime	4	7	10	6	4	4	4	2	4	1	5	4	3	4	9	3	7	3	8	4
Kochi	6	2	2	2	1	0	0	2	0	2	0	0	0	1	2	0	0	1	1	1
Fukuoka	17	28	22	31	25	15	17	18	13	18	11	17	17	15	19	21	17	24	25	23
Saga	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	2	4	1	2
Nagasaki	2	2	3	2	7	4	1	4	3	5	2	3	4	4	3	4	5	9	11	7
Kumamoto	3	1	3	2	0	1	1	2	0	0	2	0	1	0	1	3	3	2	0	3
Oita	1	4	1	3	3	1	1	0	0	0	1	0	0	2	0	2	2	0	2	1
Miyazaki	1	3	4	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0
Kagoshima	12	13	11	11	10	10	7	8	9	10	12	10	7	9	8	8	15	9	17	8
Okinawa	5	6	6	7	7	6	11	1	2	10	4	3	6	4	6	1	7	4	7	3
total	401	424	446	396	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245

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)

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Fatal accidents in port cargo handling service in Japan in 1999-2020

port cargo handling service industry Code No.050202

Type of fatal accidents in port cargo handling 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	1	4	3	0	2	1	1	3	2	5	0	3	0	0	1	0	1	1	0	0	1
falling to same level	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	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	3	2	0	1	2	2	1	4	2	1	0	0	0	0	0	1	0	1	1	0	0	0

construction machine	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	2	0	1	0	1	0
metal manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
general machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mobile silviculture machine																	0	0	0	0	0	0
crane	4	1	2	1	1	1	2	4	1	1	1	1	0	2	2	1	1	2	1	0	2	1
conveying machine	2	1	3	2	2	2	0	5	1	2	3	1	2	2	0	0	2	2	3	2	3	0
vehicle	1	1	1	3	0	1	1	0	1	1	1	0	2	0	1	1	0	0	0	0	0	0
pressure vessel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power machine, tools	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tools	1	0	2	1	3	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
other equipments, facilities	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
temporary buildings, establishments	0	1	2	0	2	0	1	0	2	0	2	0	2	0	0	0	0	2	1	0	0	1
hazards, harmful substances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
materials	0	0	1	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
load	1	3	4	4	1	2	0	2	2	2	2	1	1	0	1	1	0	0	0	0	0	1
natural environment	0	1	0	1	1	0	1	0	0	0	1	0	8	0	0	1	1	1	1	0	0	0
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
total	9	8	15	12	10	8	7	13	9	7	10	4	16	5	5	4	6	7	7	2	6	3

stone, sand, substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other materials	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	1	3	4	4	1	2	0	2	2	2	2	1	1	0	1	1	0	0	0	0	0	1
machine/equipment as load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural ground, rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
standing tree	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
water	0	0	0	1	0	0	0	0	0	0	1	0	7	0	0	0	0	1	1	0	0	0
abnormal environment	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
high/cold temperature environment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
other environments	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
total	9	8	15	12	10	8	7	13	9	7	10	4	16	5	5	4	6	7	7	2	6	3

Workers age of fatal accidents in port cargo handling 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	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0
20-29	0	0	3	2	1	1	0	2	0	1	0	0	1	1	0	0	1	1	0	0	2	3
30-39	3	0	2	0	3	1	1	3	3	0	3	0	4	1	0	0	4	1	1	0	0	0
40-49	0	1	1	2	1	1	1	0	1	0	2	1	2	1	3	2	0	1	4	1	3	0
50-59	3	6	4	7	4	0	3	3	2	4	1	2	6	2	2	1	1	1	2	1	1	0
60 years old or more	3	1	5	1	1	5	2	4	2	2	3	1	3	0	0	1	0	2	0	0	0	0
total	9	8	15	12	10	8	7	13	9	7	10	4	16	5	5	4	6	7	7	2	6	3

Workers' number of workplace of fatal accidents in port cargo handling 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	2	1	5	1	2	1	0	0	0	1	1	1	1	0	0	1	1	2	2	0	0	0

10-29	2	2	2	4	4	3	1	4	4	1	3	1	1	1	0	2	1	2	2	1	1	0
30-49	0	3	3	3	2	0	2	4	1	2	2	0	4	1	3	0	1	1	3	0	1	1
50-99	3	1	1	2	1	3	2	1	0	1	2	2	5	1	1	0	1	2	0	1	1	1
100-299	0	1	3	2	0	1	2	4	4	2	1	0	5	0	1	1	2	0	0	0	3	1
300 workers or more	2	0	1	0	1	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0
total	9	8	15	12	10	8	7	13	9	7	10	4	16	5	5	4	6	7	7	2	6	3

Month of fatal accidents in port cargo handling 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	2	3	1	1	1	1	1	0	3	0	0	0	1	0	0	0	2	1	1	0	3	0
February	0	1	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	1
March	0	0	3	0	2	2	1	2	2	0	0	1	9	2	2	0	0	0	0	0	0	0
April	1	1	0	1	2	0	0	1	0	1	1	0	0	0	1	1	0	1	0	0	0	0
May	0	0	1	2	0	1	1	1	0	0	1	2	2	1	0	0	1	1	1	0	0	0
June	0	1	1	1	1	1	2	1	0	0	0	0	0	1	0	0	1	0	1	1	1	1
July	0	0	2	2	0	1	0	2	1	2	2	0	1	0	0	2	0	1	1	0	0	0
August	2	1	2	1	1	0	0	0	1	1	1	0	0	0	2	0	0	1	1	0	1	1
September	1	0	3	2	0	0	0	2	0	2	0	1	0	0	0	1	0	0	1	0	0	0
October	0	0	1	1	1	0	1	1	0	0	3	0	3	0	0	0	1	2	0	0	0	0
November	1	1	1	1	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0
December	2	0	0	0	1	1	0	0	1	1	2	0	0	0	0	0	1	0	1	0	0	0
total	9	8	15	12	10	8	7	13	9	7	10	4	16	5	5	4	6	7	7	2	6	3

Prefecture of fatal accidents in port cargo handling 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	1	0	2	3	1	1	1	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0
Aomori	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Iwate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miyagi	0	0	0	0	1	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0
Akita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yamagata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukushima	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
Ibaraki	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0

Tochigi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gunma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saitama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chiba	0	1	2	0	0	0	0	2	2	0	0	0	0	1	0	2	0	1	0	0	0	0
Tokyo	2	3	0	1	3	1	0	0	0	1	0	2	0	1	0	0	0	1	0	0	0	0
Kanagawa	3	1	5	1	0	2	2	3	0	3	3	1	2	0	0	0	2	1	0	1	1	0
Niigata	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Toyama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ishikawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukui	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yamanashi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nagano	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gifu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shizuoka	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aichi	0	1	0	3	2	1	0	3	1	0	0	0	0	0	1	0	0	1	0	0	1	2
Mie	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shiga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyoto	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Osaka	0	0	2	1	0	1	0	1	2	2	2	1	0	0	1	0	1	0	1	0	0	0
Hyogo	0	0	0	1	0	1	0	1	0	0	2	1	1	0	1	0	1	2	0	0	0	1
Nara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wakayama	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Tottori	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Shimane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Okayama	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Hiroshima	1	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0
Yamaguchi	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Tokushima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Ehime	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Kochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukuoka	0	2	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0
Saga	0	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	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Kumamoto	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

Oita	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Miyazaki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagoshima	1	0	0	0	0	0	0	1	0	1	0	0	0	1	0	1	0	0	1	0	0	0
Okinawa	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	9	8	15	12	10	8	7	13	9	7	10	4	16	5	5	4	6	7	7	2	6	3

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

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