

Fatal and non-fatal accidents in port cargo handling service in Japan in 1999-2021

port cargo handling service industry Code No.050202

Type of accidents in port cargo handling service in 1999-2021

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	total	Type of accidents
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	67	1,678	fall from height
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	35	735	falling to same level
crash	23	32	31	40	32	26	33	21	18	23	16	22	17	16	19	17	17	14	23	16	26	16	25	523	crash
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	24	708	struck by flying or falling object
collapse	17	18	24	13	12	9	14	18	12	19	6	13	10	9	14	11	10	6	4	5	7	10	7	268	collapse
crashed by	40	44	37	43	35	36	30	40	33	28	23	23	24	26	24	22	20	21	17	24	14	23	22	649	crashed by
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	35	1,385	caught in/between
cut	4	10	16	9	12	8	5	10	6	9	8	5	2	4	4	2	5	3	5	4	6	8	7	152	cut
injury to the sole of the foot			2	1	2			1	1					1			3	2				1	2	16	injury to the sole of the foot
drown				3	1	1				1			8					1	1				1	17	drown
contact to high/low-temperature	6	5	2	3	1	3		2	3	7		5	3	4	1	5	2	5	4	2	3	2	2	70	contact to high/low-temperature









engine											1			1												2	engine	
power transmission mechanism							2							2	1						1	1	1				8	power transmission mechanism
circular sawing machine			3		3		2	2		2	1			2			1		1	1		2			2	22	circular sawing machine	
band sawing machine																											band sawing machine	
wood planer machine																											wood planer machine	
hollow chisel mortiser, wood borer																										1	hollow chisel mortiser, wood borer	
chamfering machine, router, woodworking milling machine																											chamfering machine, router, woodworking milling machine	
chain saw			3		1		3	2	1	4	1	1	1				2			1	1					21	chain saw	
other woodworking machines			2							1	2	1		1					1				1			9	other woodworking machines	
leveling, transporting or loading machine			2				2	2	2	4	2	3		2	2		3	2	2	2	1	4	3			38	leveling, transporting or loading machine	
excavating machine			3		1			2	1	1		2	1		1	4		2		2	1	1	4			26	excavating machine	
foundation work machine																											foundation work machine	



machine																									machine
food manufacturing machine																									food manufacturing machine
printing machine																									printing machine
industrial robot																									industrial robot
other general power machines			1		3		1	2	1		1	1	1	4	1			5	1	1	2	2	3	30	other general power machines
felling machine																									felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																	1							1	skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine
crane			19		16		8	17	16	14	9	11	8	10	7	13	7	11	7	3	8	8	7	199	crane
mobile crane			12		12		10	4	8	8	3	3	8	2	2	2	8	4	6	2	5	4	2	105	mobile crane
derrick crane			3					1	1			1	1											7	derrick crane
elevator, lift									1		1	1					1		1		1	1		7	elevator, lift
cargo lifting appliance			5		5		5	6	6	3	1	3	2	1	4	4	1	6	3	1	2	2	2	62	cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway







facilities			10	4	7	4	5	6		3	4	7	3	7	8	9	9	6	5	8	1	106	facilities
scaffolding			2	1	1		1	1		1				1				1	1	1	1	12	scaffolding
timbering																							timbering
stairs, landing stage			6	5	9	9	7	6	3	9	10	6	7	7	4	5	4	4	8	12	6	127	stairs, landing stage
opening			2	5	3		1	5	5	3	2	3	2	2	2	2	1	7	2	4	1	52	opening
roof, beam, haze, crossbeam, principal rafter										2		1	1	1	1							6	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			17	10	7	10	9	11	10	9	14	11	7	6	4	5	6	7	10	4	6	163	working platform, boot board
passage			16	14	16	18	21	8	10	12	13	9	8	11	11	9	15	13	16	9	21	250	passage
building, establishment			6	10	5	8	8	8	5	11	5	7	4	9	4	3	5	4	11	6	8	127	building, establishment
other temporary buildings, establishments			4	5	6	3	6	4	4	5	4	7	2	9	3	5	3	1	4	4	8	87	other temporary buildings, establishments
explosive substance			1			1																2	explosive substance
inflammable substance						1								1								2	inflammable substance
inflammable gas																							inflammable gas
harmful substance							3	2			1	1						1				8	harmful substance
radiation																							radiation
other hazards, harmful substances					1			1							1	1						4	other hazards, harmful substances

metal material			18		30		34	23	30	24	12	19	18	9	15	21	15	13	14	13	18	12	13	351	metal material
lumber, bamboo			16		13		16	9	9	8	8	7	5	3	9	6	4	7	5	3	6	5	5	144	lumber, bamboo
stone, sand, substance			2					3		1	1					1				1	1		1	11	stone, sand, substance
other materials			4		4		4	3	7	6	1	2	2	1	2	6	1				4	3	1	51	other materials
load			83		63		52	57	38	36	43	40	31	38	25	32	34	23	25	36	34	35	31	756	load
machine/equipment as load			6		1			1	1		3	1		2	1	1	1	1		1	1	1		22	machine/equipment as load
natural ground, rock							1				1			1										3	natural ground, rock
standing tree			1						1															2	standing tree
water													8					1	1				1	11	water
abnormal environment							1	1								1								3	abnormal environment
high/cold temperature environment					1				1	2		4	2	3		2	2	4	2	2	2	2	2	31	high/cold temperature environment
other environments			3		3		5	1	2	3	1	1	4	3	2	2	1	3	3	2	3	2	3	47	other environments
other causal agent			2		5		2	5	1	3	2	1	2	3		3	2	1	1	4	2	2	13	54	other causal agent
no causal agent			8		10		8	5	4	1	3	4	6	8	4	10	3	5	4	8	11	12	8	122	no causal agent
unclassifiable					2		1		1			1		1	1					2				9	unclassifiable
total			446		396		366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245	278	5,327	total

Workers age of fatal and non-fatal accidents in port cargo handling service in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less	2	5	8	2	9	5	5	8	5	5	4	3		4	2	5	4	12	7	7	8	5	4	119	19 years old or less
20-29	70	68	77	72	73	70	43	63	51	46	25	38	34	50	32	38	38	30	31	42	45	29	49	1,114	20-29
30-39	70	77	79	95	101	84	81	63	84	86	51	60	69	48	50	58	46	43	32	46	65	65	62	1,515	30-39
40-49	71	71	84	78	61	67	84	58	59	55	59	67	59	61	54	70	65	55	61	58	70	51	67	1,485	40-49
50-59	162	163	154	133	113	102	104	98	81	67	45	59	57	50	44	59	34	38	61	55	53	55	68	1,855	50-59
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	28	851	60 years old or more
total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245	278	6,939	total

Workers' number of workplace of fatal and non-fatal accidents in port cargo handling service in 1999-2021

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	total	Workers scale
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	22	691	9 workers or less
10-29	92	100	105	115	110	83	77	94	88	76	61	58	51	75	51	66	47	64	51	54	68	62	52	1,700	10-29
30-49	41	50	77	62	75	72	60	49	52	62	47	73	51	50	36	41	43	37	58	57	62	57	65	1,277	30-49
50-99	108	112	114	103	107	93	94	74	69	58	57	49	51	42	36	50	45	40	46	37	60	52	67	1,564	50-99
100-299	96	85	84	71	46	70	93	68	72	70	38	47	70	54	56	73	50	43	44	61	66	54	69	1,480	100-299
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	3	227	300 workers or more
total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245	278	6,939	total

Month of fatal and non-fatal accidents in port cargo handling service in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	27	34	36	30	28	30	30	23	19	20	23	17	19	21	7	25	22	18	14	16	30	24	20	533	January
February	34	29	33	26	21	37	28	25	24	25	15	24	23	16	17	18	13	19	28	19	33	26	18	551	February
March	37	51	40	33	34	32	36	27	39	21	19	24	36	29	25	24	27	17	16	15	22	16	20	640	March
April	24	48	42	43	35	37	24	25	24	25	22	20	18	19	21	22	17	11	15	15	25	21	23	576	April
May	32	43	35	35	43	28	39	31	29	28	18	26	24	22	23	15	27	13	21	23	24	21	27	627	May
June	28	30	47	30	33	34	41	31	22	26	8	23	18	24	12	25	15	14	12	19	22	20	19	553	June
July	42	28	39	44	41	34	25	25	32	34	21	16	22	25	11	24	14	19	27	23	20	17	28	611	July
August	31	32	37	38	29	27	29	33	25	22	20	17	7	18	26	22	16	20	18	27	21	24	29	568	August
September	35	30	34	32	30	25	20	32	32	23	17	23	27	19	15	20	14	18	16	19	33	21	26	561	September
October	40	36	41	45	32	28	24	33	38	23	26	19	24	25	16	23	17	27	27	21	13	21	24	623	October
November	36	26	31	31	25	31	31	25	20	31	20	24	17	10	10	25	16	19	16	15	25	18	22	524	November
December	35	37	31	30	45	27	39	24	21	26	19	26	24	20	22	22	16	14	18	22	16	16	22	572	December
total	401	424	446	417	396	370	366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245	278	6,939	total

Prefecture of fatal and non-fatal accidents in port cargo handling service in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	17	16	24		23		12	17	23	21	16	10	10	18	9	15	7	9	3	7	10	8	8	283	Hokkaido
Aomori	5	1	1		1		5	3	2	4	2			4	1		3	2	1	1	3	4	2	45	Aomori
Iwate		1	2		2		2		1		1	1	1		1		1						1	14	Iwate

Miyagi	5	5	9		8		8	7	4	8	3	12	16	11		5	1		1	6	4	4	8	125	Miyagi
Akita	1	2	2		1		2			2	1	2	1			1	3	1	1		1		1	22	Akita
Yamagata																									Yamagata
Fukushima	2		1		1		4	2	2	2	1	4	1	5			1	1	1	3	3	2	2	38	Fukushima
Ibaraki	2	2	5		7		2	6	2	1	2	3	2	4	1	3	2	2	2	4	1	2	4	59	Ibaraki
Tochigi																									Tochigi
Gunma																									Gunma
Saitama																									Saitama
Chiba	11	13	23		10		11	12	17	5	7	9	7	6	5	12	3	7	10	6	9	7	9	199	Chiba
Tokyo	19	21	16		12		13	15	6	18	16	18	19	13	15	18	12	10	18	13	25	16	25	338	Tokyo
Kanagawa	54	43	70		48		51	43	46	50	33	34	41	27	19	36	28	22	27	24	32	31	25	784	Kanagawa
Niigata	3	6	2		1		3	4	5	2	1	3	1	2	4	8	4	1	2	6	7	4	4	73	Niigata
Toyama		2	2		3		2		1	1		1	2	3		1	1	1	2	2			1	25	Toyama
Ishikawa		2	4		1			2	1	2		2		1	2	4			1	1	2	2	1	28	Ishikawa
Fukui	2	1	4		2		2	2	1		2		1	1	1	1		3	4	2	1	1	3	34	Fukui
Yamanashi																									Yamanashi
Nagano																									Nagano
Gifu																									Gifu
Shizuoka	11	12	12		9		13	17	13	9	4	11	9	10	5	6	5	5	9	6	7	9	4	186	Shizuoka
Aichi	52	62	44		45		27	32	35	27	12	30	25	25	27	36	20	20	17	27	34	29	34	660	Aichi
Mie	3	6	3		3		2		3		3			3			4		4	2	2	4	1	43	Mie
Shiga																									Shiga
Kyoto	1	3	2				2	2			1		1		2	1	1	1	1		2	1		21	Kyoto

Osaka	84	94	81		92		71	55	45	54	42	37	38	40	40	35	30	31	31	21	21	24	37	1,003	Osaka
Hyogo	30	29	38		32		38	23	36	33	24	12	19	23	21	19	14	22	17	18	19	15	16	498	Hyogo
Nara																									Nara
Wakayama	2	3	3				1	1	3		2		2	1	1		2		1		2	3	1	28	Wakayama
Tottori	2				1			4	1		1	2	3	1		2			1	1	2		2	23	Tottori
Shimane					1		1		1	1	1	1			1			1						8	Shimane
Okayama	7	3	4		4		6	7	3	1	2	4	4	2	1	3	1	2	1	4	2	1	3	65	Okayama
Hiroshima	22	17	19		11		15	14	20	10	12	9	8	7	8	11	10	16	6	13	12	18	7	265	Hiroshima
Yamaguchi	7	5	8		4		7	9	3	6	1	2	4	1		2	2	2	4	2	4	4	4	81	Yamaguchi
Tokushima	2	2			4		2	5	3	1	4	1	2	1	1	2	1		1	1		2	5	40	Tokushima
Kagawa	6	7	5		6		7	9	5	9	3	5	5	2	2	5	10	7	3	7	7	2	6	118	Kagawa
Ehime	4	7	10		6		4	4	4	2	4	1	5	4	3	4	9	3	7	3	8	4	7	103	Ehime
Kochi	6	2	2		2		1			2		2				1	2			1	1	1		23	Kochi
Fukuoka	17	28	22		31		25	15	17	18	13	18	11	17	17	15	19	21	17	24	25	23	21	414	Fukuoka
Saga								1										1	2	4	1	2	1	12	Saga
Nagasaki	2	2	3		2		7	4	1	4	3	5	2	3	4	4	3	4	5	9	11	7	8	93	Nagasaki
Kumamoto	3	1	3		2			1	1	2			2		1		1	3	3	2		3	3	31	Kumamoto
Oita	1	4	1		3		3	1	1				1			2		2	2		2	1	2	26	Oita
Miyazaki	1	3	4					1	1										1	1			2	14	Miyazaki
Kagoshima	12	13	11		11		10	10	7	8	9	10	12	10	7	9	8	8	15	9	17	8	11	215	Kagoshima
Okinawa	5	6	6		7		7	6	11	1	2	10	4	3	6	4	6	1	7	4	7	3	9	115	Okinawa
total	401	424	446		396		366	334	325	304	228	259	259	248	205	265	214	209	228	234	284	245	278	6,152	total





injury to the sole of the foot																								injury to the sole of the foot	
drown	1	1		3	1	1				1	1		8					1	1				1	20	drown
contact to high/low-temperature															1	1								2	contact to high/low-temperature
contact to harmful substance		1															1							3	contact to harmful substance
electric shock																									electric shock
explosion																									explosion
burst																									burst
fire																									fire
traffic accident (public road)	1						1			1			1									1		5	traffic accident (public road)
traffic accident (others)															1									1	traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others													1											1	others
unclassifiable							1							1										2	unclassifiable
total	9	8	15	12	10	8	7	13	9	7	10	4	16	5	5	4	6	7	7	2	6	3	4	177	total





kiln, caldron																								kiln, caldron	
electric equipment																								electric equipment	
human power machine, tools																								human power machine, tools	
tools	1		2	1	3	1		1						1								1	11	tools	
other equipments, facilities										1													1	other equipments, facilities	
temporary buildings, establishments		1	2		2		1		2		2		2					2	1			1	1	17	temporary buildings, establishments
hazards, harmful substances																								hazards, harmful substances	
materials			1			1		1	1														4	materials	
load	1	3	4	4	1	2		2	2	2	2	1	1		1	1						1	28	load	
natural environment		1		1	1		1				1		8		1	1	1	1					1	18	natural environment
other causal agent																								other causal agent	
no causal agent													1										1	no causal agent	
unclassifiable							1							1									2	unclassifiable	

















no causal agent													1											1	no causal agent	
unclassifiable							1							1											2	unclassifiable
total	9	8	15	12	10	8	7	13	9	7	10	4	16	5	5	4	6	7	7	2	6	3	4	177	total	

Workers age of fatal accidents in port cargo handling service in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less								1	1		1							1						4	19 years old or less
20-29			3	2	1	1		2		1			1	1			1	1			2	3		19	20-29
30-39	3		2		3	1	1	3	3		3		4	1			4	1	1					30	30-39
40-49		1	1	2	1	1	1		1		2	1	2	1	3	2		1	4	1	3			28	40-49
50-59	3	6	4	7	4		3	3	2	4	1	2	6	2	2	1	1	1	2	1	1		2	58	50-59
60 years old or more	3	1	5	1	1	5	2	4	2	2	3	1	3			1		2					2	38	60 years old or more
total	9	8	15	12	10	8	7	13	9	7	10	4	16	5	5	4	6	7	7	2	6	3	4	177	total

Workers' number of workplace of fatal accidents in port cargo handling service in 1999-2021

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	total	Workers scale
9 workers or less	2	1	5	1	2	1				1	1	1	1			1	1	2	2				2	24	9 workers or less
10-29	2	2	2	4	4	3	1	4	4	1	3	1	1	1		2	1	2	2	1	1		2	44	10-29
30-49		3	3	3	2		2	4	1	2	2		4	1	3		1	1	3		1	1		37	30-49
50-99	3	1	1	2	1	3	2	1		1	2	2	5	1	1		1	2		1	1	1		32	50-99

100-299		1	3	2		1	2	4	4	2	1		5		1	1	2				3	1		33	100-299
300 workers or more	2		1		1						1			2										7	300 workers or more
total	9	8	15	12	10	8	7	13	9	7	10	4	16	5	5	4	6	7	7	2	6	3	4	177	total

Month of fatal accidents in port cargo handling service in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	2	3	1	1	1	1	1		3				1				2	1	1		3			21	January
February		1			1			1						1						1		1		6	February
March			3		2	2	1	2	2			1	9	2	2									26	March
April	1	1		1	2			1		1	1				1	1		1						11	April
May			1	2		1	1	1			1	2	2	1			1	1	1				1	16	May
June		1	1	1	1	1	2	1						1			1		1	1	1	1	1	14	June
July			2	2		1		2	1	2	2		1			2		1	1					17	July
August	2	1	2	1	1				1	1	1				2			1	1		1	1		16	August
September	1		3	2				2		2		1				1			1					13	September
October			1	1	1		1	1			3		3				1	2					1	15	October
November	1	1	1	1		1	1	2	1												1		2	12	November
December	2				1	1			1	1	2						1		1					10	December
total	9	8	15	12	10	8	7	13	9	7	10	4	16	5	5	4	6	7	7	2	6	3	4	177	total

Prefecture of fatal accidents in port cargo handling service in 1999-2021



Shizuoka						1																	1	Shizuoka
Aichi		1		3	2	1		3	1					1			1			1	2		16	Aichi
Mie			2																				2	Mie
Shiga																								Shiga
Kyoto																								Kyoto
Osaka			2	1		1		1	2	2	2	1		1		1		1					15	Osaka
Hyogo				1		1		1			2	1	1		1		1	2				1	12	Hyogo
Nara																								Nara
Wakayama											1												1	Wakayama
Tottori													1	1									2	Tottori
Shimane															1								1	Shimane
Okayama														2									2	Okayama
Hiroshima	1								2					1									4	Hiroshima
Yamaguchi	1						1													1			3	Yamaguchi
Tokushima																						1	1	Tokushima
Kagawa																	1						1	Kagawa
Ehime								1												1			2	Ehime
Kochi																								Kochi
Fukuoka		2			1		1			1								1	1				7	Fukuoka
Saga																			1				1	Saga
Nagasaki							1												1				2	Nagasaki
Kumamoto				1															1				2	Kumamoto
Oita							1										1						2	Oita



Miyazaki																										Miyazaki
Kagoshima	1							1		1				1		1			1						6	Kagoshima
Okinawa			2	1	1																			1	5	Okinawa
total	9	8	15	12	10	8	7	13	9	7	10	4	16	5	5	4	6	7	7	2	6	3	4	177	total	

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

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