

Fatal and non-fatal accidents in harbor transportation service in Japan in 1999-2021

harbor transportation service industry Code No.0502

Type of accidents in harbor transportation 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	123	131	141	124	122	110	137	112	118	111	87	82	82	88	67	85	85	66	86	83	97	96	84	2,317	fall from height
falling to same level	61	51	54	54	45	46	54	50	47	30	33	39	47	45	40	47	25	35	43	43	45	35	54	1,023	falling to same level
crash	36	44	47	50	40	33	41	36	23	36	25	33	24	25	25	22	24	17	29	27	31	21	34	723	crash
struck by flying or falling object	76	59	70	57	54	58	47	37	45	43	30	28	23	24	29	40	27	35	19	34	33	23	31	922	struck by flying or falling object
collapse	23	22	27	17	15	20	17	22	15	19	8	15	14	9	16	14	13	7	7	10	9	13	9	341	collapse
crashed by	61	62	47	59	56	49	39	51	42	39	28	33	32	34	32	24	22	27	22	31	16	29	29	864	crashed by
caught in/between	115	125	124	115	130	125	94	77	88	79	52	73	87	65	56	67	50	53	68	59	63	56	56	1,877	caught in/between
cut	10	12	19	10	14	9	8	14	10	12	11	6	4	6	6	3	5	5	5	4	12	9	7	201	cut
injury to the sole of the foot	1		2	1	2			2	1					2			3	2				2	3	21	injury to the sole of the foot
drown	1	1		5	1	2	2			1	1		8				1	2	2				1	28	drown
contact to high/low-temperature	6	7	4	4	2	4	1	2	4	8		7	6	5	2	6	2	9	6	5	3	2	3	98	contact to high/low-temperature

engine									2	1			1										4	engine
power transmission mechanism				1		2						2	1					1	2	1			10	power transmission mechanism
circular sawing machine			3	3	2	3		3	1		4			2		1	1		4		2		29	circular sawing machine
band sawing machine																								band sawing machine
wood planer machine																								wood planer machine
hollow chisel mortiser, wood borer								1															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	2	1	1				2			2	1				23	chain saw
other woodworking machines			2					1	2	1		1					1			1			9	other woodworking machines
leveling, transporting or loading machine			2	2	4	3	2	6	2	4	1	2	3	1	3	3	6	3	1	4	8		60	leveling, transporting or loading machine
excavating machine			3	2			2	1	3	1	2	4	2	1	4		2	2	2	3	2	4	40	excavating machine
foundation work machine																								foundation work machine

machine																									machine
food manufacturing machine							1																	1	food manufacturing machine
printing machine																									printing machine
industrial robot																									industrial robot
other general power machines			1		4		2	2	1		1	1	2	5	2		1	5	1	2	3	4	5	42	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																				1				1	other mobile silviculture machine
crane			21		18		14	18	19	20	12	13	14	18	10	17	9	12	10	3	9	10	12	259	crane
mobile crane			17		17		11	6	10	9	3	4	10	3	3	3	9	4	10	3	7	5	3	137	mobile crane
derrick crane			3				1	1			1	1												7	derrick crane
elevator, lift			1		1				1	1	1	1	1				1		1		1	1		11	elevator, lift
cargo lifting appliance			6		6		5	6	6	3	1	5	3	1	6	5	1	6	4	3	2	3	2	74	cargo lifting appliance
gondola																	1							1	gondola
lumberyard equipment, logging cableway																					1			1	lumberyard equipment, logging cableway

facilities			10		6		10	8	8	8	1	5	4	11	6	8	10	10	9	8	6	11	2	141	facilities	
scaffolding			2		3		2		3	1		1				1				1	1	1	1	17	scaffolding	
timbering										1														1	timbering	
stairs, landing stage			12		11		14	12	11	6	5	15	14	7	10	10	6	8	10	8	9	16	7	191	stairs, landing stage	
opening			2		5		4		2	5	6	5	3	4	2	3	2	2	1	10	4	4	2	66	opening	
roof, beam, haze, crossbeam, principal rafter			1		1							2		1	1	1	1							8	roof, beam, haze, crossbeam, principal rafter	
working platform, boot board			21		11		7	14	9	14	12	13	17	12	8	8	8	8	10	8	12	5	10	207	working platform, boot board	
passage			19		25		21	21	24	12	15	16	17	13	14	13	17	13	22	20	16	18	28	344	passage	
building, establishment			6		12		13	11	9	13	5	14	9	9	5	11	4	5	5	7	12	8	10	168	building, establishment	
other temporary buildings, establishments			8		6		8	4	8	7	7	8	6	7	3	11	4	6	4	1	4	6	10	118	other temporary buildings, establishments	
explosive substance			1					1																2	explosive substance	
inflammable substance								1			1					1								3	inflammable substance	
inflammable gas													1											1	inflammable gas	
harmful substance			2						4	3			1	1		1				1				13	harmful substance	
radiation																										radiation
other hazards, harmful substances							2		1	1						1	1	1						7	other hazards, harmful substances	

metal material			28		39		42	26	37	28	19	22	26	15	21	26	18	20	19	16	31	14	15	462	metal material
lumber, bamboo			20		21		23	10	15	12	9	11	7	5	11	8	6	10	7	7	8	7	6	203	lumber, bamboo
stone, sand, substance			2					3		1	2					2			1	1	2		1	15	stone, sand, substance
other materials			5		4		5	3	7	7	1	3	4	1	2	6	2	1	1		4	4	2	62	other materials
load			111		87		68	72	59	47	51	53	41	52	39	40	43	31	37	47	45	44	37	1,004	load
machine/equipment as load			6		1			1	1	1	6	2	1	2	2	1	1	2		1	1	1		30	machine/equipment as load
natural ground, rock							1	1			1			1									1	5	natural ground, rock
standing tree			1						1															2	standing tree
water							1						8					2	1		1		1	14	water
abnormal environment							1	1			1						1	1						5	abnormal environment
high/cold temperature environment			1		2		1		1	2		6	3	3		3	2	8	4	5	2	2	3	48	high/cold temperature environment
other environments			3		4		5	1	3	4	1	1	5	5	3	3	2	3	4	3	3	3	6	62	other environments
other causal agent			4		5		2	7	1	4	2	1	2	3	2	4	2	1	2	6	4	4	23	79	other causal agent
no causal agent			11		13		8	7	5	4	4	10	18	14	8	14	4	7	9	11	15	16	15	193	no causal agent
unclassifiable					2		1	1	2			1		1		1					3			12	unclassifiable
total			590		546		489	445	452	422	307	353	373	344	296	349	284	286	331	330	376	330	382	7,285	total

Workers age of fatal and non-fatal accidents in harbor transportation 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	4	6	9	3	10	7	5	10	11	8	8	6		6	3	7	5	15	9	9	9	6	6	162	19 years old or less
20-29	103	98	92	91	94	85	59	90	64	64	38	46	54	69	47	49	53	40	39	57	54	38	62	1,486	20-29
30-39	109	110	111	122	135	113	110	81	122	115	66	79	95	65	72	73	59	59	55	63	82	81	81	2,058	30-39
40-49	102	104	110	104	91	91	110	75	88	74	79	92	97	83	74	96	81	75	94	85	96	72	99	2,072	40-49
50-59	211	207	217	177	165	149	140	128	108	98	65	81	73	70	65	76	50	58	83	75	81	76	92	2,545	50-59
60 years old or more	45	48	51	54	51	64	65	61	59	63	51	49	54	51	35	48	36	39	51	41	54	57	42	1,169	60 years old or more
total	574	573	590	551	546	509	489	445	452	422	307	353	373	344	296	349	284	286	331	330	376	330	382	9,492	total

Workers' number of workplace of fatal and non-fatal accidents in harbor transportation 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	56	77	62	68	60	65	53	60	48	49	34	30	37	32	28	39	30	30	34	33	32	28	33	1,018	9 workers or less
10-29	135	137	147	156	155	113	116	135	134	110	82	97	82	98	83	91	70	89	79	79	100	84	72	2,444	10-29
30-49	69	71	105	83	98	91	78	66	68	81	60	86	66	67	52	57	54	53	71	76	86	77	81	1,696	30-49
50-99	147	139	142	125	136	118	121	90	92	73	75	68	82	63	58	69	57	55	66	57	78	73	97	2,081	50-99
100-299	137	119	118	96	81	104	110	86	96	97	49	61	93	75	67	86	62	54	72	79	74	63	94	1,973	100-299
300 workers or more	30	30	16	23	16	18	11	8	14	12	7	11	13	9	8	7	11	5	9	6	6	5	5	280	300 workers or more
total	574	573	590	551	546	509	489	445	452	422	307	353	373	344	296	349	284	286	331	330	376	330	382	9,492	total

Month of fatal and non-fatal accidents in harbor transportation 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	44	50	53	45	35	40	35	33	32	36	33	27	29	26	15	33	28	23	24	27	38	33	28	767	January
February	57	55	44	45	31	51	38	36	29	43	20	28	30	25	28	26	20	25	33	26	37	33	28	788	February
March	57	58	51	40	53	46	46	34	47	31	27	28	43	35	33	32	34	24	26	25	30	24	26	850	March
April	40	60	54	51	47	51	34	40	31	37	29	30	27	25	27	32	27	16	21	21	33	28	31	792	April
May	41	53	41	51	57	36	49	38	43	40	21	36	34	36	28	23	33	20	33	28	34	25	32	832	May
June	40	42	58	38	43	47	57	44	38	34	13	32	31	32	17	31	19	23	21	26	33	31	25	775	June
July	52	35	55	59	53	48	32	34	41	40	33	25	34	32	20	29	19	28	37	34	28	25	41	834	July
August	42	47	52	48	40	32	35	42	36	30	22	28	15	27	34	28	18	24	24	33	30	32	40	759	August
September	48	40	45	43	41	37	32	37	46	28	24	27	37	26	24	26	20	25	23	26	42	27	36	760	September
October	55	47	54	56	49	39	33	40	55	33	33	26	30	29	27	31	24	34	33	32	19	27	37	843	October
November	49	38	41	41	41	39	46	35	27	38	27	33	27	17	19	31	19	23	27	24	32	21	25	720	November
December	49	48	42	34	56	43	52	32	27	32	25	33	36	34	24	27	23	21	29	28	20	24	33	772	December
total	574	573	590	551	546	509	489	445	452	422	307	353	373	344	296	349	284	286	331	330	376	330	382	9,492	total

Prefecture of fatal and non-fatal accidents in harbor transportation 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	23	23	24		31		18	21	24	23	23	15	23	25	16	21	12	9	8	13	17	18	21	408	Hokkaido
Aomori	7	1	3		2		5	3	4	5	2	2		4	1	2	3	2	2	2	3	4	2	59	Aomori
Iwate	3	2	3		2		2		1		1	1	1		1	1	1		1				1	21	Iwate

Miyagi	6	5	11		12		9	8	4	9	4	12	16	11	1	6	1		7	11	10	4	8	155	Miyagi	
Akita	3	2	2		1		2			3	1	2	1			1	3	1	1		1	1	1	26	Akita	
Yamagata										1	1			1			1							5	Yamagata	
Fukushima	2		1		1		4	2	2	2	1	6	2	5			2	2	3	3	3	2	6	49	Fukushima	
Ibaraki	2	5	5		8		4	8	2	3	2	7	6	5	1	3	5	5	4	7	2	2	7	93	Ibaraki	
Tochigi																										Tochigi
Gunma																										Gunma
Saitama													1	1										2	Saitama	
Chiba	15	18	25		12		16	19	19	16	9	11	12	9	6	15	4	9	14	9	9	10	15	272	Chiba	
Tokyo	39	29	36		23		22	18	11	31	19	24	22	17	22	23	20	18	21	20	30	20	32	497	Tokyo	
Kanagawa	80	63	80		59		64	61	69	71	39	49	47	35	29	44	34	26	36	33	36	39	29	1,023	Kanagawa	
Niigata	3	9	2		4		3	5	5	2	2	3	2	2	6	12	5	2	4	7	7	4	5	94	Niigata	
Toyama		2	2		3		2		1	1		1	3	5	1	1	1	1	2	2			1	29	Toyama	
Ishikawa		3	5		4		1	2	1	2		2		2	3	4			2	1	2	2	1	37	Ishikawa	
Fukui	3	2	4		3		3	2	1		2		1	1	1	1		3	5	2	1	1	3	39	Fukui	
Yamanashi																										Yamanashi
Nagano																										Nagano
Gifu											1			1										2	Gifu	
Shizuoka	14	14	15		10		17	18	14	10	6	12	10	11	5	6	6	6	10	6	10	10	5	215	Shizuoka	
Aichi	57	77	52		57		37	40	47	31	17	35	32	31	34	44	28	24	25	33	45	40	39	825	Aichi	
Mie	3	7	5		6		9	2	9	2	7	2	4	5	2	3	4	2	8	5	3	5	4	97	Mie	
Shiga	1																							1	Shiga	
Kyoto	1	4	3				2	2			1		1		2	1	1	1	1		2	1		23	Kyoto	

Osaka	118	125	102		130		96	78	72	83	61	54	55	55	56	49	37	43	40	33	28	36	49	1,400	Osaka
Hyogo	50	45	60		45		50	34	49	40	31	16	30	33	34	26	26	32	29	25	32	21	26	734	Hyogo
Nara																		1						1	Nara
Wakayama	5	4	9		3		3	1	5	1	4		4	1	2	1	2		1		2	3	2	53	Wakayama
Tottori	2				1			5	2		1	2	4	1		2			1	1	2	1	2	27	Tottori
Shimane					1		1		1	1	1	1			1			1						8	Shimane
Okayama	10	6	13		7		8	8	4	2	2	8	4	3	1	3	1	3	3	6	3	4	3	102	Okayama
Hiroshima	26	20	24		12		18	17	26	12	15	13	12	9	12	13	13	18	7	21	16	20	8	332	Hiroshima
Yamaguchi	11	7	9		5		8	9	4	6	1	2	4	2	1	5	2	4	5	2	4	5	5	101	Yamaguchi
Tokushima	2	3	1		4		5	5	3	1	4	2	2	1	1	2	1		2	1		2	5	47	Tokushima
Kagawa	8	11	9		6		11	12	7	12	4	8	8	7	8	7	11	11	9	9	12	7	9	186	Kagawa
Ehime	7	13	16		14		6	10	9	6	6	4	9	10	4	7	10	4	7	3	8	7	8	168	Ehime
Kochi	6	3	4		4		1			2		2	1		1	1	2			2	1	1		31	Kochi
Fukuoka	23	35	25		40		28	20	26	20	20	25	22	29	21	21	24	31	26	34	33	28	38	569	Fukuoka
Saga	2	2	1		3		1	3	1	1		1		1	1	3		1	2	4	1	2	1	31	Saga
Nagasaki	7	3	7		4		7	4	1	6	5	6	4	3	6	5	4	5	8	11	13	7	10	126	Nagasaki
Kumamoto	5	1	3		2			3	1	2			2		1		2	3	3	4		3	3	38	Kumamoto
Oita	3	5	2		3		3	1	1				3	1	1	2		2	3		3	3	3	39	Oita
Miyazaki	1	3	4					1	1		1								1	2	2		2	18	Miyazaki
Kagoshima	16	14	15		13		11	13	13	12	10	13	17	13	8	9	10	12	22	12	26	10	14	283	Kagoshima
Okinawa	10	7	8		11		12	10	12	3	3	12	8	4	6	5	8	4	8	5	9	7	14	166	Okinawa
total	574	573	590		546		489	445	452	422	307	353	373	344	296	349	284	286	331	330	376	330	382	8,432	total

injury to the sole of the foot																								injury to the sole of the foot	
drown	1	1		5	1	2	2			1	1		8				1	2	2				1	28	drown
contact to high/low-temperature				1											1	1								3	contact to high/low-temperature
contact to harmful substance		1					1										1	1						4	contact to harmful substance
electric shock																									electric shock
explosion																									explosion
burst																									burst
fire																									fire
traffic accident (public road)	1						1			1			1								2	1		7	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							2	others
unclassifiable							1							1										2	unclassifiable
total	10	11	18	15	12	10	11	14	9	9	10	5	18	5	6	5	8	10	8	4	7	4	4	213	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	1									1	13	tools		
other equipments, facilities										1																		1	other equipments, facilities	
temporary buildings, establishments			1	3	1	3		1		2		2		2						2	1					1	1	20	temporary buildings, establishments	
hazards, harmful substances																													hazards, harmful substances	
materials				1			1		1	1																			4	materials
load	1	5	5	4	1	2		2	2	2	2	1	1		1	1				1						1	1	32	load	
natural environment			1		2	1		2					1		8				1	1		3	1					1	22	natural environment
other causal agent																														other causal agent
no causal agent													1																2	no causal agent
unclassifiable							1								1														2	unclassifiable

leveling, transporting or loading machine						1					1					2			1		1				6	leveling, transporting or loading machine	
excavating machine								1																		1	excavating machine
foundation work machine																											foundation work machine
hardening machine																											hardening machine
demolition machine																											demolition machine
vehicle for high lift work																											vehicle for high lift work
other construction machines																											other construction machines
lathe																											lathe
drill press, milling machine																											drill press, milling machine
grinding machine, buffing machine																											grinding machine, buffing machine
power press																											power press
forging pressure hammer																											forging pressure hammer
shearing machine																											shearing machine
other metal manufacturing machines																											other metal manufacturing machines

pressure vessel																								pressure vessel
other pressure vessels																								other pressure vessels
chemical facilities																								chemical facilities
gas welding equipment																								gas welding equipment
arc welding equipment																								arc welding equipment
other welding equipment																								other welding equipment
kiln, caldron																								kiln, caldron
industrial dryer																								industrial dryer
other kiln, caldron																								other kiln, caldron
transmission																								transmission
electric power facilities																								electric power facilities
other electrical equipment																								other electrical equipment
human power cranes																								human power cranes
human power hauling equipment																								human power hauling equipment
human power machine																								human power machine

no causal agent													1				1								2	no causal agent
unclassifiable							1							1											2	unclassifiable
total	10	11	18	15	12	10	11	14	9	9	10	5	18	5	6	5	8	10	8	4	7	4	4	213	total	

Workers age of fatal accidents in harbor transportation 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							2						5	19 years old or less
20-29			3	2	1	1		2		1			1	1			1	1		1	2	3		20	20-29
30-39	4		3	1	4	1	1	3	3	1	3		6	1	1		6	2	2	1	1			44	30-39
40-49		1	2	2	1	1	2		1		2	2	2	1	3	3		1	4	1	3			32	40-49
50-59	3	9	5	9	5	1	6	4	2	4	1	2	6	2	2	1	1	1	2	1	1		2	70	50-59
60 years old or more	3	1	5	1	1	6	2	4	2	3	3	1	3			1		3				1	2	42	60 years old or more
total	10	11	18	15	12	10	11	14	9	9	10	5	18	5	6	5	8	10	8	4	7	4	4	213	total

Workers' number of workplace of fatal accidents in harbor transportation 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	2	3	1	1			2	1	1	1			1	1	2	2				2	28	9 workers or less
10-29	3	5	2	6	4	4	3	4	4	2	3	1	2	1		2	2	4	2	2	1		2	59	10-29
30-49		3	3	3	3		2	4	1	2	2		4	1	3		1	1	4		2	2		41	30-49
50-99	3	1	4	2	1	4	2	2		1	2	3	6	1	2		1	3		1	1	1		41	50-99

100-299		1	3	2		1	3	4	4	2	1		5		1	2	3			1	3	1		37	100-299
300 workers or more	2		1		1						1			2										7	300 workers or more
total	10	11	18	15	12	10	11	14	9	9	10	5	18	5	6	5	8	10	8	4	7	4	4	213	total

Month of fatal accidents in harbor transportation 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	2	1	2	1		3				1				2	1	2		3			24	January
February		2	2	1	2			1						1						1		1		11	February
March			3		2	2	1	2	2			1	9	2	2	1								27	March
April	2	2	1	1	2			1		1	1		1		2	1	1	1						17	April
May			1	2		1	1	1			1	2	2	1			1	2	1				1	17	May
June		1	1	1	2	1	3	1						1			1		1	2	1	1		17	June
July			2	2		1		2	1	2	2		1			2	1	2	1	1				20	July
August	2	1	2	2	1				1	2	1	1			2			1	1		2	1		20	August
September	1		3	2				2		2		1				1			1					13	September
October			1	1	1	1	1	1		1	3		3				1	3				1	1	19	October
November	1	2	1	1		1	1	2	1												1		2	13	November
December	2				1	1	3	1	1	1	2		1				1		1					15	December
total	10	11	18	15	12	10	11	14	9	9	10	5	18	5	6	5	8	10	8	4	7	4	4	213	total

Prefecture of fatal accidents in harbor transportation service in 1999-2021

Shizuoka						1	1																	2	Shizuoka
Aichi		1		3	3	1		3	1	1				1		1	2			1	2			20	Aichi
Mie			2												1		1							4	Mie
Shiga																									Shiga
Kyoto																									Kyoto
Osaka			2	1		1		1	2	2	2	1			1		2		1					16	Osaka
Hyogo			1	1		2		1		1	2	1	1		1		1	2	1		1	1		17	Hyogo
Nara																									Nara
Wakayama											1													1	Wakayama
Tottori													1	1										2	Tottori
Shimane															1									1	Shimane
Okayama			1				1							2										4	Okayama
Hiroshima	1	1							2				1	1				1						7	Hiroshima
Yamaguchi	1						1													1				3	Yamaguchi
Tokushima																							1	1	Tokushima
Kagawa																	1							1	Kagawa
Ehime								2												1				3	Ehime
Kochi																									Kochi
Fukuoka		2			1		1			1									2	1				8	Fukuoka
Saga																			1					1	Saga
Nagasaki							1												1					2	Nagasaki
Kumamoto				1															1					2	Kumamoto
Oita							1										1				1			3	Oita

Miyazaki																										Miyazaki
Kagoshima	1				1			1		1				1		1			1						7	Kagoshima
Okinawa			2	1	1																			1	5	Okinawa
total	10	11	18	15	12	10	11	14	9	9	10	5	18	5	6	5	8	10	8	4	7	4	4	213	total	

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

Return to https://www.jisha.or.jp/english/statistics/2021e_industry.html