Fatal and non-fatal accidents in water transportation service in Japan in 1999-2022

water transportation service industry Code No.040102

Type of accidents in water transportation 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	5	6	8	8	4	12	3	4	10	6	3	9	8	6	6	7	6	9	7	10	7	10	7	11	172
falling to same	4	6	12	8	9	13	12	17	10	13	3	9	14	9	8	10	11	9	9	17	10	12	8	6	239
crash	4		3	3	2	6	2	6	3	2	2	8	3	3	2	4	2	9	9	1	4	5	6	4	93
struck by flying or falling object		3	2	2		2	3	1	2	2	3	2	3	1	1	2	2	6	2	2	3	4	3	3	54
collapse			1	1			1		2	1	1				1				1					1	10
crashed by	4	1	3	2	3	4	7	2	1	2	1	3	2	4	2	1	3	2	5	2	4	7	4	3	72
caught in/between	4	4	11	3	7	7	3	7	7	2	3	7	4	10	11	8	5	7	9	3	11	9	5	12	159
cut	2	1	1		2		2	1	1	2	1			2	1	3	2	1	2	1	1	2	1	1	30
injury to the sole of the foot																									
drown	1	1					1						4	1	1	1	2		2	2			1		17
contact to high/low-	1	1	1	1	1	1		2		2				1	1	2	2	1	2	2		1	1	2	25

temperature																									
contact to harmful							2								1								1		4
substance															•										
electric shock																		1							1
explosion																									
burst																									
fire																									
traffic accident	1	1						1	2	3	1		2	1		1	2			3		1		3	22
(public road)								ľ		3				'										5	
traffic accident		1	2		1							1							1					1	7
(others)					ľ							•							•					•	
reaction to																									
motion/improper	2	5	2	3	9	5	8	6	5	6	2	8	13	8	7	1	5	9	12	10	9	10	5	18	168
motion																									
others						1		1			1	1								1	1				6
unclassifiable									1																1
total	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	65	1,080

Causal agents (large) of fatal and non-fatal accidents in water transportation 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		1	1		1		1			2	1	1	2	1	2	2	2	1	3	2	1	2	2	3	31

crane, conveying machine	12	12	19	7	12	14	7	14	11	16	5	10	13	17	14	7	19	18	19	13	15	21	11	23	329
other equipment	3	4	8	8	9	11	12	8	10	10	7	4	12	11	10	14	9	13	12	10	13	17	9	12	236
temporary buildings,	7	10	11	6	11	13	10	17	15	7	7	24	13	9	7	13	8	13	13	14	12	14	11	14	279
establishments																									
substance, material	2			2		2	4	3	1	2		3	2	1	3	2	2	2	2	1	1	1	2		38
load	1		2	1	2	4	1		3	1		2	2	1	2			2	4	2	2	1	1	5	39
environment		1	3	3		4	3	2	2			1	4		3	1		3	4	6	2	1	1		44
others	3	2	2	4	3	3	6	4	2	3	1	3	5	6	1	1	2	2	4	6	4	4	5	8	84
total	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	65	1,080

Causal agents (middle) of fatal and non-fatal accidents in water transportation service in 1999-2022

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	2021	2022	total
engine										1							1			1				1	4
power																									
transmission												1	1											1	3
mechanism																									
woodworking					1								1	1	1				1						5
machine													1		<u> </u>				•						

construction															1	1						1			3
machine															•	•						<u> </u>			
metal																									
manufacturing			1							1								1	1	1	1	1	1	1	9
machine																									
general machine		1					1				1					1	1		1				1		7
mobile silviculture																									
machine																									
crane	2		2	1		1	1	2		2	1	1		2	4	1	1	2	1	1	3	4	1	1	34
conveying		_						1						_			4		4	_	1	_			
machine	3	3	3	2	2		I I		3			2	2	5			4	2	4	2	1	5	2	7	54
vehicle	7	9	14	4	10	13	5	11	8	14	4	7	11	10	10	6	14	14	14	10	11	12	8	15	241
pressure vessel																1									1
chemical facilities																									
welding		1														1			1						
equipment		1														1			1						3
kiln, caldron																									
electric equipment																									
human power		_								_						_		_	1	1					
machine, tools		1	1			2	2	1	2	1	1		3	2		3	3	1	1	ı	2	4	2	1	34
tools	3	2	6	8	6	9	9	6	8	5	5	3	8	7	10	9	4	11	9	8	9	11	5	9	170
other equipments,																									

facilities			1		3		1	1		4	1	1	1	2			2	1	1	1	2	2	2	2	28
temporary																									
buildings,	7	10	11	6	11	13	10	17	15	7	7	24	13	9	7	13	8	13	13	14	12	14	11	14	279
establishments																									
hazards, harmful substances							2	1					1	1	1								1		7
materials	2			2		2	2	2	1	2		3	1		2	2	2	2	2	1	1	1	1		31
load	1		2	1	2	4	1		3	1		2	2	1	2			2	4	2	2	1	1	5	39
natural environment		1	3	3		4	3	2	2			1	4		3	1		3	4	6	2	1	1		44
other causal agent	1		2	1	1	1			1		1		3	2		1				1					15
no causal agent	2	1		3	2	2	6	4		3		3	2	4	1		1	2	4	5	4	4	5	8	66
unclassifiable		1							1								1								3
total	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	65	1,080

Causal agents (small) of fatal and non-fatal accidents in water transportation service in 1999-2022

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	2021	2022	total
engine										1							1			1				1	4
power transmission												1	1											1	3
mechanism																									

circular sawing			1									1				,
machine																
band sawing																
machine																
wood planer								1								
machine								1								
hollow chisel																
mortiser, wood																
borer																
chamfering																
machine, router,																
woodworking																
milling machine																
chain saw							1		1						2	2
other woodworking																
machines																
leveling,																
transporting or																
loading machine																
excavating machine										1					1	
foundation work																
machine																
hardening machine																

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demolition machine																			
vehicle for high lift work																			
other construction machines									1							1			2
lathe					1														1
drill press, milling machine																	1		1
grinding machine, buffing machine	1												1	1	1	1		1	6
power press																			
forging pressure hammer																			
shearing machine																			
other metal manufacturing machines												1							1
centrifugal machine																			
mixer, grinder										1									1
roll machine (except printingroll																			
machine)																			

									\Box					\vdash				
injection molding																		
machine																		
food manufacturing																		
machine											1		1					2
printing machine																		
industrial robot																		
other general																		
power machines				1			1									1		3
felling machine																		
mobile logging																		
machine																		
skyline yarding																		
machine																		
other mobile																		
silviculture machine																		
crane										1					3	1	1	6
mobile crane		2			1	2				1		1						7
derrick crane																		
elevator, lift																		
cargo lifting										1	1			1				3
appliance										1	<u> </u>							J
gondola																		

									<u> </u>			<u> </u>					<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>
lumberyard equipment, logging																		1				1
cableway																					<u> </u>	<u> </u>
simple skyline																						
yarding equipment																						
other powered				1	1			1	1			1	1		1	1	1	1	1			13
crane					I			I	I		2	I	ı		ı	I						13
truck		2	1		1	3				2	2				2	1	2	1	2	2	5	26
forklift		1	1						2		1			3		2			3		2	15
railway equipment																						
conveyor											2					1						3
loader																						
straddle carrier																						
rough terrain hauler																						
other powered																						
conveying machines				1										1								2
cars, bus,																						
motorcycle		2				2	3	2		2	2		I	2	I		3				2	23
railway vehicle																						
other vehicles		12	10	5	11	6	11	2	7	9	8	9	5	12	13	14	7	11	12	8	13	185
boiler																						

pressure vessel																
other pressure									1							1
vessels																•
chemical facilities																
gas welding											1					1
equipment											•					•
arc welding									1							1
equipment									•							<u> </u>
other welding																
equipment																
kiln, caldron																
industrial dryer																
other kiln, caldron																
transmission																
electric power																
facilities																
other electrical																
equipment																
human power							1					1				2
cranes							ı					ı				2
human power				1		1	2	1	2	2	1		1	3		14
hauling equipment									2	2	'		1	<u>ح</u>		14

human power																						
machine																						
hand tool		1		1	1	2	1				1		1	1	1			1	1	2	1	15
ladder		1		1		2			1	1	1	2	3	2	2		3	2	1	1	1	24
slinging tool		1		1			1										1	1		1		6
other tools		4	6	7	6	6	4	5	2	7	6	8	6	2	9	9	4	6	10	3	8	118
other equipment,		1	3	1	1		4	1	1	1	2			2	1	1	1	2	2	2	2	28
scaffolding			1							1			1		1	1						5
timbering																						
stairs, landing stage		2	7	2	3	3	1	2	11	5	2	2	2	2	2	2	7	3	3	3	8	72
opening		1						1		1			1							1	1	6
roof, beam, haze,																						
crossbeam,																						
principal rafter																						
working platform,		1	1	3	2	1	3	1			1	1	1	1			2			1	1	20
boot board																						
passage		2		3	7	7	2	2	8	2	5	4	6	3	6	1	3	1	6	3	2	73
building,		3	1		4	3	1	1	3	2			1	1	3	4	1	3	4	2		37
establishment								Ľ					Ĺ			Ľ						
other temporary																						
buildings,		2	1	2	1	1			2	2	1		1	1	1	5	1	5	1	1	2	30

establishments																					
explosive substance																					
inflammable									1												1
substance									1												
inflammable gas					1																1
harmful substance				2																	2
radiation																					
other hazards,										1	1								1		3
harmful substances										<u> </u>	I								ľ		
metal material				1	1	1		2	1				2	2	1		1	1			13
lumber, bamboo					1			1			1				1				1		5
stone, sand,																					
substance																					
other materials				1			2				1	2				1					7
load		1	2	1		3		2	2	1	2			2	3	1	2	1	1	5	29
machine/equipment		1					1								1	1					4
as load		1														ľ					4
natural ground,				1		2					2	1		2	1						9
rock															<u> </u>						
standing tree																1					1
water		1							4		1				2	1					9
abnormal																					

environment																									
high/cold																									
temperature			1					1												1		1			4
environment																									
other environments			1				2	1				1						1	1	3	2		1		13
other causal agent			2		1				1		1		3	2		1				1					12
no causal agent					2		6	4		3		3	2	4	1		1	2	4	5	4	4	5	8	58
unclassifiable									1								1								2
total	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	65	1,080

Workers age of fatal and non-fatal accidents in water transportation 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	1		2								1			1				2	1	1	1		1	4	15
20-29	7	6	10	5	8	14	7	8	10	7	4	4	4	6	7	6	4	10	8	8	4	9	6	6	168
30-39	3	2	9	6	7	12	14	11	15	12	3	11	14	8	11	4	3	10	7	6	9	6	5	6	194
40-49	5	4	5	6	6	6	7	5	6	6	5	12	9	11	7	10	8	12	12	11	14	13	11	18	209
50-59	9	9	13	5	11	6	9	10	4	8	3	12	14	12	9	7	12	7	8	8	5	16	5	17	219
60 years old or	3	9	7	9	6	13	7	14	9	8	5	9	12	8	8	13	15	13	25	20	17	17	14	14	275
	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	65	1,080

Workers' number of workplace of fatal and non-fatal accidents in water transportation 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	9	3	12	8	10	14	10	15	8	9	5	13	10	15	13	10	11	6	10	9	4	13	10	9	236
10-29	10	11	16	8	8	13	12	13	21	5	7	13	18	18	10	7	12	15	13	18	23	21	11	21	324
30-49	6	8	9	10	14	7	8	5	6	10	1	9	9	1	10	8	6	8	12	10	9	8	5	8	187
50-99	2	8	6	2	2	4	8	6	4	8	5	9	7	7	4	7	10	10	11	7	3	11	9	16	166
100-299	1		3	2	4	13	6	9	4	9	3	4	8	5	5	8	3	15	15	10	10	8	6	11	162
300 workers or				1					1				1								1		1		5
more																					'				
total	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	65	1,080

Month of fatal and non-fatal accidents in water transportation service in 1999-2022

Month	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
January	3	4	4	1	5	2	4	5	1	4	3	4	4	4	2	7	6	4	5	6	1	7	2	4	92
February	1	1	3	6	1	4	3	2	6	7	1	4	8	6		4	3	2	4	3		6	6	3	84
March	2	1	3	2	4	3	4	4	2	2	2	3	7	2	2	1	4	7	6	6	7	3	1	5	83
April	4	1	4	1	6	5	3	7	2	2	2	4	4	2	6	4	6	3	3	4	10	6	4	7	100
May	1	5	7	4	5	4	4	3	8	3	2	10	4	4	2	3	6	4	9	5	4	5	2	7	111
June	1	2	2	2	1	2	3	1	3	1	1	5	2	2	3	1	3	12	7	5	3	2	2	5	71

																!				!	!	\sqsubseteq			!
July	3	4	4	2	2	6	9	4	3	3	2	2	1	2	4	2	4	6	3	4	6	5	4	6	91
August	2	5	4		3	6	5	6	4	8	2	6	2	6	3	2	2	6	7	5	6	1	6	5	102
September	2	2	2	2	4	2		3	4	1	2	3	4	3	7	8	3	2	4	2	2	3	3	3	71
October	4		3	5	3	4	2	5	2	3	2	3	7	2	2	2	2	5	5	4	2	8	5	8	88
November	3	3	5	1	2	7	2	4	5	2	2	2	2	3	6	3	3	1	4	4	5	9	3	6	87
December	2	2	5	5	2	6	5	4	4	5		2	8	10	5	3		2	4	6	4	6	4	6	100
total	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	65	1,080

Prefecture of fatal and non-fatal accidents in water transportation 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	1	4	2		4		2	4	2	1	1	2	3	5	5	4		1	5	3	1	3	4	2	59
Aomori		2	2					1													1				6
lwate			1				1													1		1		2	6
Miyagi					1		2		1			1	3		1				1						10
Akita										1															1
Yamagata		1					1	1							2					3				1	9
Fukushima																				1			1	1	3
Ibaraki			1									1		1								1			4
Tochigi																									
Gunma																									

Saitama																							
Chiba			2			1	1		1	4	1	2		1		3	1		2	1			20
	3	3	7	3	8	6	8	9	7	6	6	2	6	8	4	6	5	5	5	3	4	2	116
											1				<u> </u> 	1	<u> </u>]			<u> </u> 		58
	5	3	3	4		3		2					3	3	6	4	6	6	2	2	2	2	╬
Niigata	1		2		3	3	2	5	3	2	1	2	1	1	5	3	1	3	2	2	1	4	47
Toyama		1				1									1								3
Ishikawa																							
Fukui							1															2	3
Yamanashi												1			1								2
Nagano				1				1			1					1		2			2		8
Gifu				1	1						1					2	2	2	2				11
Shizuoka	3	1	2	1		1	1				4	1	1		3	3	3	1	1	5		2	33
Aichi			4	6	7	6	1	3	4	3	4	2	5		2	2	5	2	2	2	3	6	69
Mie				2	1	1	2	3	1	1	1	1		1	1			2		2	1	2	22
Shiga												3			1	2	3		1	2			12
Kyoto	2		2	1	2	6	6	2	2	3	6	1	4	2	1	7	8	6	5	2	1	9	78
Osaka	2	1	2		2	2	3	1		4	3		2		1	4	2		4	3	2	5	43
Hyogo		3	3	1		2	5	1		5		3		4	2		4		3	6	1	2	45
Nara																							
Wakayama			1			1					1	1		3		1	1		5	2			16
Tottori			1									2								2			5

Shimane													2	1					1			1	2		7
Okayama		4			2		1	4	2	1		1			2	1	3	1	1		1	4	1	1	30
Hiroshima	4		2		3				3	3	1	3	3	3	1	2	2	1	2	2	5	5	1	2	48
Yamaguchi		1			1					1		1			1	1		2	1					1	10
Tokushima			1				2								1			1		1	1		1		8
Kagawa	1	1			1		2					3	4	1	1				1	1	1	2	4	7	30
Ehime	2	1	1		2				2	1		1		2	1	1	2			1	1	1	1	3	23
Kochi														1		1				1					3
Fukuoka	2	1	3		2		1	1		2		1	3	2		1	1	7	4	3		3	3	2	42
Saga														1						1					2
Nagasaki	1				2		1	2	1	1		1	2	1	2	1	3		3	4	3	3	2	1	34
Kumamoto		3	2				3	1		2		3	1	3	2							2	1	2	25
Oita							3	1		1			1	2		2				1					11
Miyazaki												1	1	2		1				1	1				7
Kagoshima	1		1				1		1		1						1	3	1	1	1	1	1		14
Okinawa			1						1			1			1	2	2						3	4	15
total	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	65	1,080

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

Return to https://ww	w.jish	a.or.jp	<u>/engl</u>	ish/sta	atistics	s/2022	<u>2e_inc</u>	dustry	<u>.html</u>																
atal accidents in wa	==== ter tra	==== inspor	==== tation	==== n servi	e in J	apan	==== in 199	==== 99-202	==== 22	====	====	====	:====	:=											
water transportation	servic	e indu	ıstry (Code N	No.040	0102																			
Type of fatal acciden	ts in w	/ater t	ransp	ortatio	on ser	vice ir	า 1999	9-2022	2																
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	tota
fall from height									1													1			2
falling to same level									1	1		1													3
crash																									
struck by flying or																									
falling object																									
collapse																									
crashed by																									
caught in/between			1					1					1	1					1						5
cut																									

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

injury to the sole of

drown	1			1	1				4	1	1	1	2		2		1		17
	1			1					7										17
contact to																			
high/low-																			
temperature																			
contact to harmful																			
substance																			
electric shock																			
explosion																			
burst																			
fire																			
traffic accident																			
(public road)																			
traffic accident																		1	1
(others)																		I	
reaction to																			
motion/improper																			
motion																			
others																			
unclassifiable																			
total	1	1		1	2	2	1	1	5	2	1	1	2	3	2	1	1	1	28

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													1												1
crane, conveying		1	1					1	1	1		1		2	1	1	2		1	1		1	1	1	17
machine		•	•					•	•	'									•	•		•	•		
other equipment																			1						1
temporary																									
buildings,							1		1				1						1						4
establishments																									
substance, material																									
load																									
environment								1					3							1					5
others																									
total		1	1				1	2	2	1		1	5	2	1	1	2		3	2		1	1	1	28

Causal agents (middle) of fatal accidents in water transportation service in 1999-2022

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	2021	2022	total
engine																									
power transmission													1												1
mechanism													•												

woodworking																		
machine																		
construction																		
machine																		
metal																		
manufacturing																		
machine																		
general machine																		
mobile silviculture																		
machine																		
crane		1					1											2
conveying machine									1			1						2
vehicle	1				1	1		1	1	1	1	1	1	1	1	1	1	13
pressure vessel																		
chemical facilities																		
welding equipment																		
kiln, caldron																		
electric equipment																		
human power																		
machine, tools																		
tools													1					1
other equipments,																		

facilities																			
temporary																			
buildings,				1		1			1					1					4
establishments																			
hazards, harmful																			
substances																			
materials																			
load																			
natural					1				3						1				5
environment					1				3						1				J
other causal agent																			
no causal agent																			
unclassifiable																			
total	1	1		1	2	2	1	1	5	2	1	1	2	3	2	1	1	1	28

Causal agents (small) of fatal accidents in water transportation service in 1999-2022

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	2021	2022	total
engine																									
power transmission													1												1
mechanism													•												

circular sawing machine													
band sawing machine													
wood planer machine													
hollow chisel mortiser, wood borer													
chamfering machine, router, woodworking milling machine													
chain saw													
other woodworking machines													
leveling, transporting or loading machine													
excavating machine													
foundation work machine													
hardening machine													

		الــــــا			 					لــــــا	لــــــا		لـــــا
demolition machine													
vehicle for high lift work													
other construction machines													
lathe													
drill press, milling machine													
grinding machine, buffing machine													
power press													
forging pressure hammer													
shearing machine													
other metal manufacturing machines													
centrifugal machine													
mixer, grinder													
roll machine (except													
machine)													

1	 		 	 	 $\overline{}$		 							
injection molding machine														
food manufacturing														
printing machine														
industrial robot														
other general power machines														
felling machine														
mobile logging machine														
skyline yarding machine														
other mobile silviculture machine														
crane														
mobile crane		1				1								2
derrick crane														
elevator, lift														
cargo lifting appliance														
gondola														

		\sqsubseteq		\square	\sqsubseteq	\sqsubseteq				\sqsubseteq	\square	\sqsubseteq	\sqsubseteq		\square	 \square	\sqsubseteq		ــــــا
lumberyard																			
equipment, logging																			
cableway																			
simple skyline																			
yarding equipment																			
other powered																			
crane																			
truck																			
forklift																			
railway equipment																			
conveyor									1										1
loader																			
straddle carrier																			
rough terrain hauler																			
other powered												1							1
conveying machines												1							
cars, bus,						1													1
motorcycle						•													
railway vehicle																			
other vehicles	1				1			1	1	1	1	1		1	1	1	1	1	12
boiler																			

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

human power													
machine													
hand tool													
ladder													
slinging tool													
other tools										1			1
other equipment,													
facilities													
scaffolding													
timbering													
stairs, landing stage													
opening													
roof, beam, haze,													
crossbeam,													
principal rafter													
working platform,													
boot board													
passage					1								1
building,							1						1
establishment													
other temporary													
buildings,				1						1			2

establishments													
explosive substance													
inflammable													
substance													
inflammable gas													
harmful substance													
radiation													
other hazards,													
harmful substances													
metal material													
lumber, bamboo													
stone, sand,													
substance													
other materials													
load													
machine/equipment													
as load													
natural ground,													
rock													
standing tree													
water			1			3				1			5
abnormal													

environment																			
high/cold																			
temperature																			
environment																			
other environments																			
other causal agent																			
no causal agent																			
unclassifiable																			
total	1	1		1	2	2	1	1	5	2	1	1	2	3	2	1	1	1	28

Workers age of fatal accidents in water transportation 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																									
20-29																									
30-39													1	1											2
40-49								1					1												2
50-59		1	1				1	1	1	1							1								7
60 years old or									1			1	3	1	1	1	1		3	2		1	1	1	17
more									•			<u> </u>		_	•		•					•		•	
total		1	1				1	2	2	1		1	5	2	1	1	2		3	2		1	1	1	28

Workers' number of workplace of fatal accidents in water transportation 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		1	1				1	2				1	1			1	1			1					10
10-29													4	1	1				2	1			1	1	11
30-49									2	1									1			1			5
50-99														1											1
100-299																	1								1
300 workers or																									
more																									
total		1	1				1	2	2	1		1	5	2	1	1	2		3	2		1	1	1	28

Month of fatal accidents in water transportation service in 1999-2022

Month	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
January							1							1					1						3
February													1												1
March		1											3												4
April															1					1					2
May									1	1		1				1									4
June																	1					1			2

July															1				1
August													1	1					2
September					1												1		2
October		1								1									2
November						1								1					2
December					1				1									1	3
total	1	1		1	2	2	1	1	5	2	1	1	2	3	2	1	1	1	28

Prefecture of fatal accidents in water transportation 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								1							1	1			1						4
Aomori																									
lwate																									
Miyagi												1	3												4
Akita																									
Yamagata																									
Fukushima																									
Ibaraki																									
Tochigi																									
Gunma																									

Saitama																
Chiba											1					1
Tokyo	1			1												2
Kanagawa																
Niigata					1											1
Toyama																
Ishikawa																
Fukui																
Yamanashi																
Nagano												1		1		2
Gifu																
Shizuoka																
Aichi												1			1	2
Mie																
Shiga																
Kyoto										1						1
Osaka																
Hyogo								1								1
Nara																
Wakayama																
Tottori																

Shimane																			
Okayama																			
Hiroshima									2										2
Yamaguchi																			
Tokushima																			
Kagawa				1						1									2
Ehime																			
Kochi																			
Fukuoka							1												1
Saga																			
Nagasaki																1			1
Kumamoto		1																	1
Oita																			
Miyazaki																			
Kagoshima														1					1
Okinawa						1							1						2
total	1	1		1	2	2	1	1	5	2	1	1	2	3	2	1	1	1	28

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