

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

water transportation service industry Code No.040102

Type of accidents in water 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	5	6	8	8	4	12	3	4	10	6	3	9	8	6	6	7	6	9	7	10	7	10	7	161	fall from height	
falling to same level	4	6	12	8	9	13	12	17	10	13	3	9	14	9	8	10	11	9	9	17	10	12	8	233	falling to same level	
crash	4		3	3	2	6	2	6	3	2	2	8	3	3	2	4	2	9	9	1	4	5	6	89	crash	
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	51	struck by flying or falling object	
collapse			1	1			1		2	1	1				1				1					9	collapse	
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	69	crashed by	
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	147	caught in/between	
cut	2	1	1		2		2	1	1	2	1			2	1	3	2	1	2	1	1	2	1	29	cut	
injury to the sole of the foot																										injury to the sole of the foot
drown	1	1					1						4	1	1	1	2		2	2			1	17	drown	
contact to high/low-temperature	1	1	1	1	1	1		2		2				1	1	2	2	1	2	2		1	1	23	contact to high/low-temperature	

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

machine																								machine	
food manufacturing machine															1		1						2	food manufacturing machine	
printing machine																								printing machine	
industrial robot																								industrial robot	
other general power machines							1				1											1	3	other general power machines	
felling machine																								felling machine	
mobile logging machine																								mobile logging machine	
skyline yarding machine																								skyline yarding machine	
other mobile silviculture machine																								other mobile silviculture machine	
crane														1								3	1	5	crane
mobile crane			2					1		2				1			1							7	mobile crane
derrick crane																									derrick crane
elevator, lift																									elevator, lift
cargo lifting appliance														1		1					1			3	cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging																						1		1	lumberyard equipment, logging

harmful substances													1	1								1	3	harmful substances	
metal material						1	1	1			2	1				2	2	1		1	1		13	metal material	
lumber, bamboo							1				1			1				1				1	5	lumber, bamboo	
stone, sand, substance																								stone, sand, substance	
other materials						1			2					1	2				1				7	other materials	
load			1		2		1		3			2	2	1	2			2	3	1	2	1	1	24	load
machine/equipment as load			1							1								1	1				4	machine/equipment as load	
natural ground, rock							1		2						2	1		2	1				9	natural ground, rock	
standing tree																			1				1	standing tree	
water			1									4		1				2	1				9	water	
abnormal environment																								abnormal environment	
high/cold temperature environment			1					1											1		1		4	high/cold temperature environment	
other environments			1				2	1				1					1	1	3	2		1	13	other environments	
other causal agent			2		1			1		1		3	2		1				1				12	other causal agent	
no causal agent					2		6	4		3		3	2	4	1		1	2	4	5	4	4	5	50	no causal agent
unclassifiable								1								1							2	unclassifiable	
total			46		38		44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	875	total

Workers age of fatal and non-fatal accidents in water 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		2								1			1				2	1	1	1		1	11	19 years old or less
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	162	20-29
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	188	30-39
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	191	40-49
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	202	50-59
60 years old or more	3	9	7	9	6	13	7	14	9	8	5	9	12	8	8	13	15	13	25	20	17	17	14	261	60 years old or 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	1,015	total

Workers' number of workplace of fatal and non-fatal accidents in water 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	9	3	12	8	10	14	10	15	8	9	5	13	10	15	13	10	11	6	10	9	4	13	10	227	9 workers or less
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	303	10-29
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	179	30-49
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	150	50-99
100-299	1		3	2	4	13	6	9	4	9	3	4	8	5	5	8	3	15	15	10	10	8	6	151	100-299
300 workers or more				1					1				1								1		1	5	300 workers or 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	1,015	total
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Month of fatal and non-fatal accidents in water 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	3	4	4	1	5	2	4	5	1	4	3	4	4	4	2	7	6	4	5	6	1	7	2	88	January
February	1	1	3	6	1	4	3	2	6	7	1	4	8	6		4	3	2	4	3		6	6	81	February
March	2	1	3	2	4	3	4	4	2	2	2	3	7	2	2	1	4	7	6	6	7	3	1	78	March
April	4	1	4	1	6	5	3	7	2	2	2	4	4	2	6	4	6	3	3	4	10	6	4	93	April
May	1	5	7	4	5	4	4	3	8	3	2	10	4	4	2	3	6	4	9	5	4	5	2	104	May
June	1	2	2	2	1	2	3	1	3	1	1	5	2	2	3	1	3	12	7	5	3	2	2	66	June
July	3	4	4	2	2	6	9	4	3	3	2	2	1	2	4	2	4	6	3	4	6	5	4	85	July
August	2	5	4		3	6	5	6	4	8	2	6	2	6	3	2	2	6	7	5	6	1	6	97	August
September	2	2	2	2	4	2		3	4	1	2	3	4	3	7	8	3	2	4	2	2	3	3	68	September
October	4		3	5	3	4	2	5	2	3	2	3	7	2	2	2	2	5	5	4	2	8	5	80	October
November	3	3	5	1	2	7	2	4	5	2	2	2	2	3	6	3	3	1	4	4	5	9	3	81	November
December	2	2	5	5	2	6	5	4	4	5		2	8	10	5	3		2	4	6	4	6	4	94	December
total	28	30	46	31	38	51	44	48	44	41	21	48	53	46	42	40	42	54	61	54	50	61	42	1,015	total

Prefecture of fatal and non-fatal accidents in water 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	1	4	2		4		2	4	2	1	1	2	3	5	5	4		1	5	3	1	3	4	57	Hokkaido

Aomori		2	2					1											1			6	Aomori						
Iwate			1				1												1		1		4	Iwate					
Miyagi					1		2		1			1	3		1								10	Miyagi					
Akita										1													1	Akita					
Yamagata		1					1	1							2							3		8	Yamagata				
Fukushima																						1		1	2	Fukushima			
Ibaraki			1									1		1										1		4	Ibaraki		
Tochigi																											Tochigi		
Gunma																											Gunma		
Saitama																											Saitama		
Chiba			2					1	1		1	4	1	2		1		3	1		2	1				20	Chiba		
Tokyo	3	3	7		3		8	6	8	9	7	6	6	2	6	8	4	6	5	5	5	3	4			114	Tokyo		
Kanagawa	5	3	3		4			3	1	2			1		3	3	6	4	6	6	2	2	2			56	Kanagawa		
Niigata	1		2				3	3	2	5	3	2	1	2	1	1	5	3	1	3	2	2	1			43	Niigata		
Toyama		1						1									1										3	Toyama	
Ishikawa																												Ishikawa	
Fukui																												1	Fukui
Yamanashi															1			1										2	Yamanashi
Nagano					1						1			1				1		2				2			8	Nagano	
Gifu					1		1						1						2	2	2	2					11	Gifu	
Shizuoka	3	1	2		1			1	1					4	1	1		3	3	3	1	1	5				31	Shizuoka	
Aichi			4		6		7	6	1	3	4	3	4	2	5			2	2	5	2	2	2	3			63	Aichi	
Mie					2		1	1	2	3	1	1	1	1		1	1				2		2	1			20	Mie	

unclassifiable																										unclassifiable
total		1	1				1	2	2	1		1	5	2	1	1	2		3	2		1	1	27	total	

Causal agents (large) of fatal accidents in water transportation service in 1999-2021

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	total	Causal (L) agents
machine													1											1	machine
crane, conveying machine		1	1					1	1	1		1		2	1	1	2		1	1		1	1	16	crane, conveying machine
other equipment																			1					1	other equipment
temporary buildings, establishments							1		1				1						1					4	temporary buildings, establishments
substance, material																									substance, material
load																									load
environment								1					3							1				5	environment
others																									others
total		1	1				1	2	2	1		1	5	2	1	1	2		3	2		1	1	27	total

Causal agents (middle) of fatal accidents in water transportation service in 1999-2021

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	total	Causal (M) agents
engine																									engine
power transmission mechanism													1											1	power transmission mechanism
woodworking machine																									woodworking machine
construction machine																									construction machine
metal manufacturing machine																									metal manufacturing machine
general machine																									general machine
mobile silviculture machine																									mobile silviculture machine
crane		1							1															2	crane
conveying machine													1			1								2	conveying machine
vehicle		1					1	1			1		1	1	1	1		1	1		1	1		12	vehicle
pressure vessel																									pressure vessel

																									agent	
no causal agent																									no causal agent	
unclassifiable																									unclassifiable	
total		1	1					1	2	2	1		1	5	2	1	1	2		3	2		1	1	27	total

Causal agents (small) of fatal accidents in water transportation service in 1999-2021

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	total	Causal (S) agents	
engine																										engine
power transmission mechanism													1											1		power transmission mechanism
circular sawing machine																										circular sawing machine
band sawing machine																										band sawing machine
wood planer machine																										wood planer machine
hollow chisel mortiser, wood borer																										hollow chisel mortiser, wood borer
chamfering machine, router, woodworking																										chamfering machine, router, woodworking

shearing machine																							shearing machine
other metal manufacturing machines																							other metal manufacturing machines
centrifugal machine																							centrifugal machine
mixer, grinder																							mixer, grinder
roll machine (except printingroll machine)																							roll machine (except printingroll machine)
injection molding machine																							injection molding machine
food manufacturing machine																							food manufacturing machine
printing machine																							printing machine
industrial robot																							industrial robot
other general power machines																							other general power machines
felling machine																							felling machine
mobile logging machine																							mobile logging machine
skyline yarding machine																							skyline yarding machine
other mobile silviculture machine																							other mobile silviculture machine

buildings, establishments						1											1					2	buildings, establishments	
explosive substance																							explosive substance	
inflammable substance																							inflammable substance	
inflammable gas																							inflammable gas	
harmful substance																							harmful substance	
radiation																							radiation	
other hazards, harmful substances																							other hazards, harmful substances	
metal material																							metal material	
lumber, bamboo																							lumber, bamboo	
stone, sand, substance																							stone, sand, substance	
other materials																							other materials	
load																							load	
machine/equipment as load																							machine/equipment as load	
natural ground, rock																							natural ground, rock	
standing tree																							standing tree	
water							1					3										1	5	water
abnormal environment																							abnormal environment	

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		1	1				1	2				1	1			1	1			1				10	9 workers or less	
10-29													4	1	1				2	1			1	10	10-29	
30-49									2	1									1			1		5	30-49	
50-99														1										1	50-99	
100-299																1								1	100-299	
300 workers or more																										300 workers or more
total		1	1				1	2	2	1		1	5	2	1	1	2		3	2		1	1	27	total	

Month of fatal accidents in water 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							1							1					1					3	January
February													1											1	February
March		1											3											4	March
April														1						1				2	April
May									1	1		1			1									4	May
June																1						1		2	June
July																				1				1	July
August																1		1						2	August
September							1																1	2	September
October			1											1										2	October

Fukuoka									1														1	Fukuoka	
Saga																									Saga
Nagasaki																						1		1	Nagasaki
Kumamoto			1																					1	Kumamoto
Oita																									Oita
Miyazaki																									Miyazaki
Kagoshima																			1					1	Kagoshima
Okinawa									1														1	2	Okinawa
total		1	1				1	2	2	1		1	5	2	1	1	2		3	2		1	1	27	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