

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 level	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 substance							2								1							1			4
electric shock																	1								1
explosion																									
burst																									
fire																									
traffic accident (public road)	1	1						1	2	3	1		2	1		1	2			3		1		3	22
traffic accident (others)		1	2		1							1							1					1	7
reaction to motion/improper motion	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
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, establishments	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
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 mechanism												1	1											1	3
woodworking machine					1								1	1	1				1						5

pressure vessel																							
other pressure vessels														1									1
chemical facilities																							
gas welding equipment																	1						1
arc welding equipment														1									1
other welding equipment																							
kiln, caldron																							
industrial dryer																							
other kiln, caldron																							
transmission																							
electric power facilities																							
other electrical equipment																							
human power cranes											1							1					2
human power hauling equipment						1				1	2	1		2	2		1		1	3			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, facilities			1		3		1	1		4	1	1	1	2			2	1	1	1	2	2	2	2	28
scaffolding					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, boot board			1		1		3	2	1	3	1			1	1	1	1			2			1	1	20
passage			2				3	7	7	2	2	8	2	5	4	6	3	6	1	3	1	6	3	2	73
building, establishment			3		1			4	3	1	1	3	2			1	1	3	4	1	3	4	2		37
other temporary buildings,			2		1		2	1	1			2	2	1		1	1	1	5	1	5	1	1	2	30

environment																									
high/cold temperature environment			1					1											1		1				4
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 more	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
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' 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 more				1					1				1								1		1		5
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

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.

drown		1					1	1					4	1	1	1	2		2	2			1		17
contact to high/low-temperature																									
contact to harmful substance																									
electric shock																									
explosion																									
burst																									
fire																									
traffic accident (public road)																									
traffic accident (others)																								1	1
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 agents (large) of fatal accidents in water transportation service in 1999-2022

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 more									1			1	3	1	1	1	1		3	2		1	1	1	17
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

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)

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html