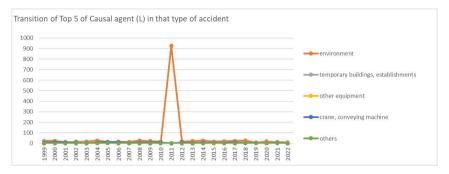
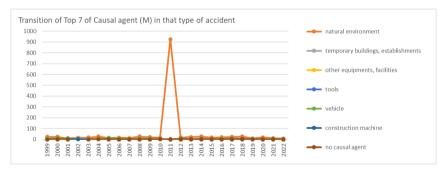
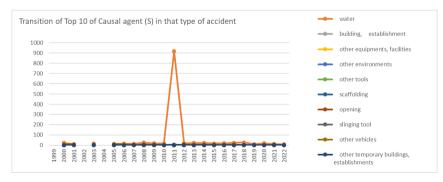
Transition of Causal agent (L, M, S) of fatal & non-fatal accident (drown) in 1999-2022



Transition of Causal agent (L) of fatal & non-fatal accident (drown) in 1999-2022



Transition of Causal agent (M) of fatal & non-fatal accident (drown) in 1999-2022



Transition of Causal agent (S) of fatal & non-fatal accident (drown) in 1999-2022

Causal agent (L)	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
environment	23	23	11	15	17	26	14	15	13	26	21	16	925	18	22	26	17	20	23	27	9	19	11	10	1,347
temporary buildings, establishments	12	6	7	7	8	3	7	5	3	7	9	3	4	4	1	5	5	8	6	7	8	3	5	4	137
other equipment	1	3	2	1	4	3	3	1	3	1	1	2	2		2	2	1	1	4	2	5	1	3	4	52
crane, conveying machine	7	10	10	5	2	7	14	10	4	7	7	6	1	9	4	7	5	4	9	3	4	2	7		144
others		1	1	1		3	2					1			1		2	2	1	5	2	2	3		27
machine	4	1	2	2		2	1	1				1	1	3	1	1		1	1	1					23
substance, material		1					1					1									1				4
load		1		1																1	1				4
total	47	46	33	32	31	44	42	32	23	41	38	30	933	34	31	41	30	36	44	46	30	27	29	18	1,738

Transition of Causal agent (M) of fatal & non-fatal accident (drown) in 1999-2022

Causal agent (M)	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
natural	23	23	11	15	17	26	14	15	13	26	21	16	925	18	22	26	17	20	23	27	9	19	11	10	1,347
environment						20				20) <u> </u>				.,								1,5 17

temporary																									
buildings,	12	6	7	7	8	3	7	5	3	7	9	3	4	4	1	5	5	8	6	7	8	3	5	4	137
establishments																									
other equipments,	1	1		1		3	1	1		1	1		2		2	1	1	1	1		1	1			21
facilities					3	3	I	I	2		1		2		2	1	1	1	1		1	I	2	2	31
tools		2	1		1		2		1			1				1			3		3		1	2	18
vehicle	7	10	9	5	2	7	13	9	3	7	7	5	1	8	4	7	3	4	8	2	3	2	6		132
construction		_																							
machine		ļ		!		2	1							3	1										13
no causal agent						1						1					1		1	4	1	2	1		12
unclassifiable		1		1		2	1								1			2		1	1				10
general machine	3		1	1				1					1												7
conveying			1				1	1						1			1				1		1		7
machine							•	•						1							•				
crane									1			1					1		1	1					5
other causal																	1								5
agents							•																2		
load		1		1																1	1				4
metal																									
manufacturing																		1	1						2
machine																									
human power																				1	1				2

machine, tools															
hazards, harmful substances		1			1										2
materials								1					1		2
woodworking machine	1														1
pressure vessel												1			1
engine															
power transmission mechanism															
mobile silviculture machine															
chemical facilities															
welding equipment															
kiln, caldron															
electric equipment															

Transition of Causal agent (S) of fatal & non-fatal accident (drown) in 1999-2022

Causal agent (S)	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	
								l	1 1		1 1		I I		1 1		1 1		1 1						ll .	Ш

water	22	10	16	14	15	13	25	19	16	917	18	21	22	16	19	23	27	9	18	11	8	1,259
building, establishment	4	4	6	2	2	2	4	6	3	1	3	1	4	2	6	4	3	4	1		2	64
other equipments,	1	1	3	1	1	2	1	1	1	2		2	1	1	1	1		1	1	2	2	26
other environments		1	1				1	2		7			1	1					1		2	17
other tools	2	1	1			1			1				1			3		3		1	1	15
scaffolding		1	1	1	1			1		1			1							2	1	10
opening					1											2	1	1	1		1	7
slinging tool				1																	1	2
other vehicles	9	9	2	10	7	2	7	5	5	1	8	4	5	3	2	8	2	2	2	6		99
other temporary buildings, establishments		1	1	2		1	2	1			1			1	2		1	1		1		15
cars, bus, motorcycle	1			3	2	1		2					2		2			1				14
no causal agent									1					1		1	4	1	2	1		11
excavating machine		1		1					1		1	1	1				1					7
unclassifiable	1			1								1			2		1	1				7
stairs, landing stage								1		1				1				1	1	1		6
working platform, boot board	2			1	1									1						1		6

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mobile crane						1		1					1	1	1			5
passage		1		1			1		1							1		5
other causal agents		1		1									1				2	5
high/cold																		
temperature											1	3						4
environment																		
truck				1	1												1	3
load	1														1	1		3
other construction										2								2
machines																		
other general		1			1													2
power machines		•			•													
forklift		1														1		2
other powered										1			1					2
conveying machines										1			'					
roof, beam, haze,																		
crossbeam,															2			2
principal rafter																		
natural ground,	1								1									2
rock																		
leveling,																		
transporting or	1																	1

loading machine																
lathe											1					1
power press												1				1
food manufacturing								1								1
machine								•								I
other pressure													1			1
vessels																
human power													1			1
hauling equipment																
hand tool														1		1
ladder				1												1
inflammable gas	1															1
other hazards,				1												1
harmful substances																
metal material							1									1
other materials														1		1
standing tree											1					1
engine																
power transmission																
mechanism																
circular sawing																
machine																

	=	=	=	 =	=	=		 	 	=	 	!		=	==	=	'	==
band sawing																		
machine																		
wood planer																		
machine																		
hollow chisel																		
mortisers, wood																		
borer																		
chamfering																		
machine, router,																		
woodworking																		
milling machine																		
chain saw																		
other woodworking																		
machines																		
foundation work																		
machine																		
hardening machine																		
demolition machine																		
vehicle for high lift																		
work																		
drill press, milling																		
machine																		

grinding machine,													
buffing machine													
forging pressure													
hammer													
shearing machine													
other metal													
manufacturing													
machines													
centrifugal machine													
mixer, grinder													
roll machine (except													
printingroll													
machine)													
injection molding													
machine													
printing machine													
industrial robot													
felling machine													
mobile logging													
machine													
skyline yarding													
machine													

other mobile												
silviculture machine												
crane												
derrick crane												
elevator, lift												
cargo lifting appliance												
gondola												
lumberyard equipment, logging cableway												
simple skyline yarding equipment												
other powered crane												
railway equipment												
conveyor												
loader												
straddle carrier												
rough terrain hauler												
railway vehicle												
boiler												

	 =	=	=	 =	 =	=	=	 =	=	=	=	 	 =	=	 =	=	=
pressure vessel																	
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																	
machine																	
timbering																	
explosive substance																	

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inflammable															
substance															
harmful substance															
radiation															
lumber, bamboo															
stone, sand,															
substance															
machine/equipment															
as load															
abnormal															
environment															

Data Source: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html

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