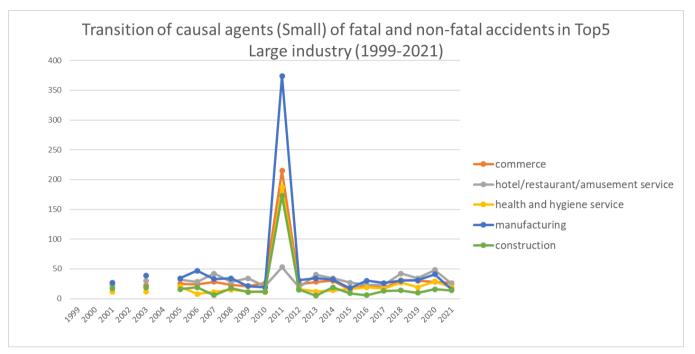
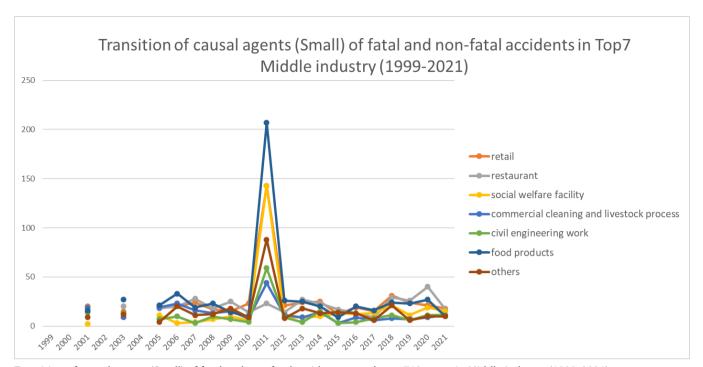
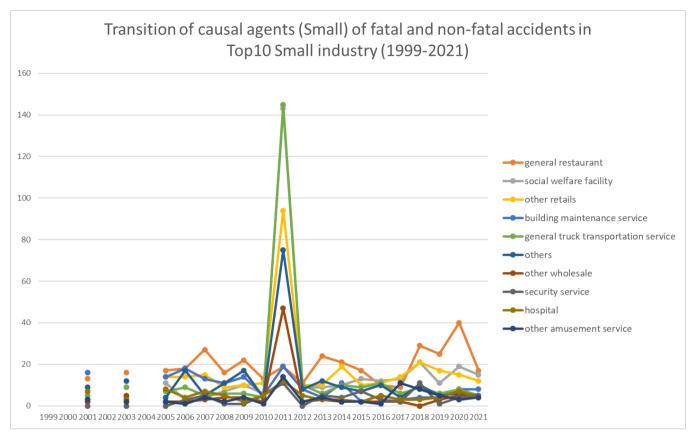
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 713 water (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 713 water in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 713 water in Middle Industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 713 water in Small Industry (1999-2021)

## Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 713 water in Large industry (1999-2021)

code	Large industry	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Large industry
08	commerce			24		22		25	24	28	23	21	26	215	24	28	30	15	23	18	31	30	28	26	661	commerce
14	hotel/restaurant/amusement			22		30		32	28	42	28	34	21	53	19	40	34	27	23	23	42	34	48	25	605	hotel/restaurant/amusement
13	health and hygiene service			12		12		20	8	11	15	12	11	187	16	12	14	16	19	17	27	19	29	19	476	health and hygiene service
01	manufacturing			27		39		34	47	33	34	21	19	374	31	34	32	18	30	26	30	31	41	15	916	manufacturing
03	construction			17		19		16	19	6	18	11	12	173	15	5	19	9	6	13	14	10	16	14	412	construction
15	commercial cleaning and			19		9		19	23	16	13	15	8	44	11	9	14	3	9	6	8	7	9	11	253	commercial cleaning and
	iivestock process							Щ	Щ			<u> </u>						<u> </u>				<u> </u>				iivestock process

17	others		9	13	4	20	12	12	18	9	91	9	20	13	15	13	6	22	7	11	10	314	others
04	transportation service		12	11	10	16	10	12	7	5	191	12	10	11	13	16	9	12	10	12	6	385	transportation service
09	financial business/advertisement		1	3	1	5	3	5	5	1	33	1	4	4	2		1	2			4	75	financial business/advertisement
07	livestock/fishery		8	10	12	3	3	17	11	6	17	8	11	10	10	2	5	5	7	5	3	153	livestock/fishery
06	agriculture		1	2	1	1	2		1		8	2	4	1	2	2	1	1	1	1	3	34	agriculture
11	telecommunication service			1	6	7		1	4	6	35	1	3	2		2	5	4	1	2	1	81	telecommunication service
12	education/research service		2	4	2	1	4	3	2		12	5	2	4			3	2	2	2	1	51	education/research service
05	cargo handling service			1	1						12	1	1			2	2	2	1	2	1	26	cargo handling service
02	mining					1					2		1			1		1			1	7	mining
16	public office			2				1	1	1	2							1				8	public office
10	movie/play service		1			1				1	1											4	movie/play service
	total		155	178	183	204	170	182	163	126	1,450	155	184	188	130	148	135	204	160	206	140	4,461	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 713 water in Middle industry (1999-2021)

code	Middle industry	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Middle industry
0802	retail			20		15		20	20	24	17	15	23	143	21	24	25	12	19	15	31	24	21	18	507	retail
1402	restaurant			14		20		18	20	28	18	25	14	23	14	27	23	17	13	9	29	26	40	17	395	restaurant
1302	social welfare facility			2		9		11	3	4	7	10	6	143	9	9	10	13	12	13	21	11	19	15	327	social welfare facility
1501	commercial cleaning and livestock process			19		9		19	23	16	13	15	8	44	11	9	14	3	9	6	8	7	9	11	253	commercial cleaning and livestock process
0301	civil engineering work			14		13		7	10	3	10	7	4	59	9	4	15	3	4	8	11	6	11	11	209	civil engineering work
0101	food products			16		27		21	33	19	23	14	10	207	26	25	20	9	20	16	24	23	27	10	570	food products
1702	others			9		12		4	20	11	12	18	9	88	8	18	13	14	13	6	21	6	10	10	302	others
0403	road cargo transportation service			8		10		8	10	6	7	7	4	157	11	7	10	10	11	6	9	8	8	6	303	road cargo transportation service

1403	other amusement service	5	8	5	4	8	5	7	6	17	4	9	3	5	3	13	9	6	4	5	126	other amusement service
0801	wholesale	2	5	2	2	3	4	4	2	49	2	3	2	2	2	2		3	5	5	99	wholesale
1301	medical treatment service	9	3	8	5	7	7	2	5	40	7	3	4	2	6	4	5	6	10	4	137	medical treatment
0702	fishery	8	9	11	3	2	17	8	6	16	8	11	9	9	2	4	4	6	5	3	141	fishery
1401	hotel	3	2	9	4	6	5	2	1	13	1	4	8	5	7	1	4	2	4	3	84	hotel
0303	other construction works	3	1	3	1	2	3	2		38	5		2	4	1	2	1	2	4	3	77	other construction works
0901	financial business		1	1	5	3	4	5	1	29	1	3	2	2		1	1			3	62	financial business
0108	chemical products		3	5		3	2	2		7	1	1	5	2	2	2	2	2	3	3	45	chemical products
0804	other commerce	2	2	3	2	1	2	1	1	21	1	1	3	1	2	1		2	2	2	50	other commerce
0601	agriculture	1								2	2	4	1		2			1	1	2	16	agriculture
1101	telecommunication service		1	6	7		1	4	6	35	1	3	2		2	5	4	1	2	1	81	telecommunication service
1201	education/research service	2	4	2	1	4	3	2		12	5	2	4			3	2	2	2	1	51	education/research service
0113	machine products		1	2		2	1	1	1	6					1	1		1	1	1	19	machine products
0602	forestry		2	1	1	2		1		6				2		1	1			1	18	forestry
0110	steel making	1				1			1	9					1	1				1	15	steel making
0502	harbor transportation service			1						8					2	1		1		1	14	harbor transportation service
0902	advertisement and mediator	1	2				1			4		1	2				1			1	13	advertisement and mediator
0202	quarrying				1					2		1			1		1			1	7	quarrying
0803	haircut/beauty salon							1		2								1		1	5	haircut/beauty salon
0302	construction work		5	6	8	1	5	2	8	76	1	1	2	2	1	3	2	2	1		126	construction work

0402	road passenger transport service	2	1	2	5	4	5		1	30			1	3	5	1	2	1	4	67	road passenger transport service
0117	other manufacturing			2	2	4	1		2	43	2					1	1	2	4	64	other manufacturing
0115	transport equipment products	2	3		1	1		1		20	1	4	2		2	2		2		41	transport equipment products
0112	metal products	1	1		2		3		3	20			3	2	1	1			2	39	metal products
0109	sand and stone products	3	2	1	1	1	2	1		5	1	1	1	2	2		2		1	26	sand and stone products
0104	wood products			1			1			18		1						1		22	wood products
0114	electrical equipment products		1	1	3	1				11		1								18	electrical equipment products
0116	electric/gas/water service				2			2		10		1								15	electric/gas/water service
0401	railroad/water transportation/airline service	1			1					4	1	2				2	1	1		13	railroad/water transportation/airline service
0501	land cargo handling service		1							4	1	1				1	2		2	12	land cargo handling
0701	livestock		1	1		1		3		1			1	1		1	1	1		12	livestock
1303	other health and hygiene service	1		1			1			4				1	1		1	2		12	other health and
1701	dispatch service		1			1				3	1	2		1			1	1	1	12	dispatch service
0106	pulp/paper processing products	1								3			1	2			1		2	10	pulp/paper processing products
0102	textile products	1		1	2					2				1	1	1				9	textile products
1601	public office		2				1	1	1	2							1			8	public office
0103	fiber products	1	1			1	1			3										7	fiber products
																					nonferrous metal

0111	nonferrous metal making		1							2	2						1					6	making
0105	furniture										4									1		5	furniture
0107	printing/bookbinding					1					4											5	printing/bookbinding
1001	movie/play service		1			1				1	1											4	movie/play service
0404	other transportation service		1										1									2	other transportation
0201	coal mining																						coal mining
0203	other mining																						other mining
	total		155	178	183	204	170	182	163	126	1,450	155	184	188	130	148	135	204	160	206	140	4,461	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 713 water in Small industry (1999-2021)

code	Small industry	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Small industry
140201	general restaurant			13		16		17	18	27	16	22	13	19	11	24	21	17	10	9	29	25	40	17	364	general restaurant
130201	social welfare facility			2		9		11	3	4	7	10	6	143	9	9	10	13	12	13	21	11	19	15	327	social welfare facility
080209	other retails			7		4		14	14	15	9	10	11	94	10	10	19	10	11	14	21	17	15	12	317	other retails
150101	building maintenance service			16		5		14	18	13	11	14	5	19	8	4	11	2	5	3	4	4	8	8	172	building maintenance service
040301	general truck transportation service			5		9		7	9	5	6	6	4	145	10	6	10	9	11	6	9	6	8	5	276	general truck transportation service
170209	others			9		12		4	17	5	11	17	4	75	8	12	9	7	10	4	10	5	6	5	230	others
080109	other wholesale			2		5		2	2	3	4	4	2	47	2	3	2	2	2	2		3	5	5	97	other wholesale
170201	security service								3	5	1	1	5	11		5	4	7	3	2	11	1	4	5	68	security service
130101	hospital			7		3		8	4	7	5	2	5	12	5	3	3	2	5	3	3	4	7	4	92	hospital
140309	other amusement service			3		2		2	1	4	2	4	1	14	2	4	2	2	1	11	8	5	3	4	75	other amusement service
010109	other foods			12		14		16	18	13	14	11	7	23	22	13	16	5	15	10	16	13	16	3	257	other foods
010102	fishery products			2		2		3	3	1	2	3		168		3	1	2	2	3	3		5	3	206	fishery products

140101	hotel	3	2	9	4	6	5	2	1	13	1	4	8	5	7	1	4	2	4	3	84	hotel
080205	newspaper retail	1	1		5	4	4	2	6	6	5	3	2	1	4		3	3	5	3	58	newspaper retail
010104	bread/cake products	1	4	1	5		4		1	6	3	5	2	1	3	2	2	6	4	3	53	bread/cake products
030111	port/seaside construction work	1	4		3		2	2		7	4	2	1	3	1	2	3		3	3	41	port/seaside construction work
030106	road construction work	1	3	1	2				1	7			1			1		1	1	3	22	road construction work
070201	fishery	8	8	8	3		13	7	4	5	7	8	7	7	2	3	2	1	4	2	99	fishery
030199	other civil engineering work	4	1	5	2	2	2	2	1	23	2	2	6		1	2		2	2	2	61	other civil engineering work
030309	other construction works	3	1	1	1	2	2	2		22	4		2	2		1		1	2	2	48	other construction works
080409	other commerce	2	2	3	2		2	1	1	19		1	3	1	2			2	2	2	45	other commerce
150102	industrial waste management service	1	2		1	1			1	11	2	2	1		1	1	1	2		2	29	industrial waste management service
090101	banking/trust business				2	2			1	10		1		1		1				2	20	banking/trust business
060101	agriculture	1								2	2	4	1		2			1	1	2	16	agriculture
080202	auto mobile retail		1		1					5		1	1							2	11	auto mobile retail
030105	bridge construction work	2		1	1					2							2			2	10	bridge construction work
110101	telecommunication service		1	6	7		1	4	6	35	1	3	2		2	5	4	1	2	1	81	telecommunication service
080201	all kinds of retail	11	7	4		3	3	3	6	11	6	8	3	1	4		6	3		1	80	all kinds of retail
120109	other education/research service	2	4	2		4	3	2		9	5	2	4			3	2	2	2	1	47	other education/research service
140301	golf course	1	5	3	3	3	3	3	3	2	2	5	1	2	1	2	1	1	1	1	43	golf course
070209	other fishery		1	3		2	4	1	2	11	1	3	2	2		1	2	5	1	1	42	other fishery
090103	insurance business		1	1	2	1	4	5		19		2	2	1			1			1	40	insurance business
010101	meat/dairy products	1	2	1	3	4			1	8		2					2	1	1	1	27	meat/dairy products
150109	other cleaning and livestock process service	1	2	1	3	2	2			4	1	2	1		2	1	2	1	1	1	27	other cleaning and livestock process service
030107	river civil engineering work	1	2			1	1	1	1	3	1		3		2	2	1	1	1	1	22	river civil engineering work

040302	specific truck transportation service		2		1	1		1			9	1	1		1				2		1	20	specific truck transportation service
010804	petroleum/coal products						1		1		6	1						1			1	11	petroleum/coal products
030302	machinery/apparatus setting work										3	1			2	1	1			2	1	11	machinery/apparatus setting work
050202	port cargo handling service										8					1	1				1	11	port cargo handling service
010803	pharmaceuticals			1	2				1					1			1	1			1	8	pharmaceuticals
060209	other forestry			1	1				1						1			1			1	6	other forestry
090201	traveling service		1	2									1	1							1	6	traveling service
080302	beauty salon								1		2								1		1	5	beauty salon
010801	non organic or organic chemical products				1									1		1					1	4	non organic or organic
011009	other steel products										2						1				1	4	other steel products
020201	quarrying										2							1			1	4	quarrying
011305	other precision machine products																				1	1	other precision machine products
030209	other building construction work				4	2	1	3		2	33	1	1			1	2					50	other building construction work
040201	taxi service		2		1	5	3	2		1	23				2	2	1	2		1		45	taxi service
080204	fuel retail		1	2	2		2	1			26						1		1	1		37	fuel retail
011701	auto mobile servicing						2	1			31	1								1		36	auto mobile servicing
030202	wooden house construction work			3	1	1			1	2	23						1			1		33	wooden house construction work
011209	other metal products					1		3		3	16			3	1	1	1			2		31	other metal products
140209	other restaurants		1	4	1	2	1	2	3	1	4	3	3	2		3			1			31	other restaurants
130109	other medical treatment service					1		2			15	2						1	2	2		25	other medical treatment

150103	other waste disposal service		1		4	1			1	2	9		1	1	1	1	1	1			24	other waste disposal service
030203	building facility construction work			1	1	3		1		2	13				1			1			23	building facility construction work
011501	ship building		1	2			1				12	1	1			1	1		1		21	ship building
011709	other manufacturing				1	2	1				10	1					1	1	1	3	21	other manufacturing
030110	water supply/sewage construction work		4	1		1		5			8			1						1	21	water supply/sewage construction work
040202	bus service			1	1		1	3			6			1	1	3			1	3	21	bus service
030201	steel frame/reinforced concrete house construction work			1		2		1	1	2	7			2	1			1	2			steel frame/reinforced concrete house construction work
130102	general clinic		2								13			1		1	1	1		1	20	general clinic
011301	machine products			1	2		2	1	1	1	6					1	1		1	1	18	machine products
030109	land consolidation civil engineering work			2					1		5	1		3			1	3		2	18	land consolidation civil engineering work
030301	electricity/telecommunication work				2			1			13							1	1		18	electricity/telecommunication work
010103	agricultural food products			2		3	1	1		1	1	1	2	1					1	1	15	agricultural food products
011502	auto mobile products		1	1		1			1		4		3	2		1	1				15	auto mobile products
010402	plywood				1						13										14	plywood
010899	other chemical products			2	2		1	2						1	1				1	2	12	other chemical products
010909	other sand and stone products		2					2			4					2		1		1	12	other sand and stone products
011403	electronics equipment and telecommunications apparatus			1	1	1					9										12	electronics equipment and telecommunications apparatus
050101	land cargo handling service			1							4	1	1				1	2		2	12	land cargo handling service
060201	lumbering			1		1	2				6				1		1				12	lumbering

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070101	livestock				1		1		1		3		1			1	1		1	1	1		12	livestock
170101	dispatch service				1				1				3	1	2		1			1	1	1	12	dispatch service
011001	steel/iron/rolling products		1									1	6					1					9	steel/iron/rolling products
011603	city water service							1			2		6										9	city water service
040102	water transportation service		1										4		1				2	1			9	water transportation service
010901	cement products		1		1		1	1					1		1		1			1			8	cement products
140302	park and amusement park		1		1				1			2	1				1	1					8	park and amusement park
160101	public office				2					1	1	1	2							1			8	public office
010106	soft drinks				2					1							1		1		2		7	soft drinks
090209	other advertisement and									1			4			1				1			7	other advertisement and
	mediator																							mediator
130301	bathhouse		1				1			1			1					1		1	1		7	bathhouse
010401	lumbering									1			3		1						1		6	lumbering
010105	alcoholic drinks				1			1		1			1							1			5	alcoholic drinks
010701	printing service							1					4										5	printing service
011109	other nonferrous metal		1									2	1						1				5	other nonferrous metal
011105	products												ľ										110	products
011204	metal plating products		1					1					2				1						5	metal plating products
011409	other electrical equipment							1	1				2		1								5	other electrical equipment
011509	other transport equipment												4								1		5	other transport equipment
011309	products																							products
011601	electric utility service							1					3		1								5	electric utility service
030108	sand collapse prevention civil		1								1	1		1						1			5	sand collapse prevention civil
030100	engineering work													<u> </u>						Ľ				engineering work
040309	other land cargo				1				1		1		2										5	other land cargo
	transportation service																							transportation service
080401	warehousing								1				2	1					1				5	warehousing

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130309	other health and hygiene service									3				1				1		5	other health and hygiene service
010204	dyeing					1								1	1	1				4	dyeing
010301	over/under wear		1					1		2										4	over/under wear
010501	wood furniture									3									1	4	wood furniture
010609	other pulp/paper processing products									2				1			1			4	other pulp/paper processing products
010805	plastics products						1						2	1						4	plastics products
010806	rubber products									1		1						1	1	4	rubber products
011702	machine repair				1				1	2										4	machine repair
030104	railway construction work					1				3										4	railway construction work
080203	furniture/fittings retail									1		2					1			4	furniture/fittings retail
120101	auto mobile practical training					1				3										4	auto mobile practical training
170202	information processing service						1			2		1								4	information processing service
010209	other textile products		1							2										3	other textile products
010309	other fiber products			1			1			1										3	other fiber products
010601	pulp/paper													1					2	3	pulp/paper
010602	paper processing products		1							1			1							3	paper processing products
010905	other ceramic products						1						1	1						3	other ceramic products
020202	gravel digging					1						1			1					3	gravel digging
030101	hydroelectric plant construction work									1							1	1		3	hydroelectric plant construction work
040101	railroad service										1	1						1		3	railroad service
010409	other lumber and wood products									2										2	other lumber and wood products
010809	chemical fertilizer products														1	1				2	chemical fertilizer products

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010902	glass products				1						1												2	glass products
011002	casting products								1				1										2	casting products
011201	western tableware/cutting tool products												2										2	western tableware/cutting tool products
011703	cleaning								1			1											2	cleaning
030102	tunnel construction work																			1	1		2	tunnel construction work
040303	cargo/ light automobile transportation service		1										1										2	cargo/ light automobile transportation service
040409	other transportation service		1												1								2	other transportation service
050209	other harbor transportation service						1											1					2	other harbor transportation service
080101	all kinds of wholesale												2										2	all kinds of wholesale
090109	other financial business							1						1									2	other financial business
100101	movie production and delivery service		1					1															2	movie production and delivery service
100109	other movie/play service											1	1										2	other movie/play service
010202	cotton-spinning						1																1	cotton-spinning
010203	weaving							1															1	weaving
010509	other furniture												1										1	other furniture
010903	pottery products													1									1	pottery products
011102	nonferrous metals casting products												1										1	nonferrous metals casting products
011203	metal press products				1																		1	metal press products
011402	electrical appliance							1															1	electrical appliance
011602	city gas service												1										1	city gas service
011704	tobacco products																			1			1	tobacco products

040103	airline service				1									1	airline service
040209	other passenger transport service							1						1	other passenger transport service
050201	general harbor transportation service											1		1	general harbor transportation service
150104	cremation service							1						1	cremation service
010201	silk-reeling														silk-reeling
010502	metal furniture														metal furniture
010503	fittings														fittings
010702	bookbinding														bookbinding
010709	other printing and bookbinding														other printing and bookbinding
010802	chemical fiber														chemical fiber
010807	leather products														leather products
010808	painting products														painting products
010904	fire resisting products														fire resisting products
011101	nonferrous metals/rolling products														nonferrous metals/rolling products
011202	screw products														screw products
011302	measuring instruments														measuring instruments
011303	optical instruments														optical instruments
011304	watch products														watch products
011401	heavy electrical equipment														heavy electrical equipment
011503	railway vehicle products														railway vehicle products
011609	other electric/gas/water service														other electric/gas/water service
020101	general coal mining														general coal mining

020109	other coal mining																						other coal mining
020209	other quarrying																						other quarrying
020301	metal mining																						metal mining
020302	petroleum mining																						petroleum mining
020309	other mining																						other mining
030103	subway construction work																						subway construction work
080102	furniture/fittings wholesale																						furniture/fittings wholesale
080301	haircut																						haircut
090102	stock/commodity trade																						stock/commodity trade
030102	business																						business
100102	movie theatre																						movie theatre
120102	software service																						software service
150105	livestock process service																						livestock process service
	total		155	178	183	204	170	182	163	126	1,450	155	184	188	130	148	135	204	160	206	140	4,461	total

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

https://www.jisha.or.jp/english/statistics/202212\_03.html