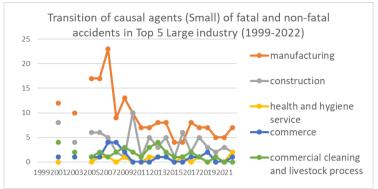
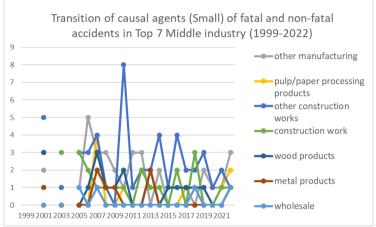
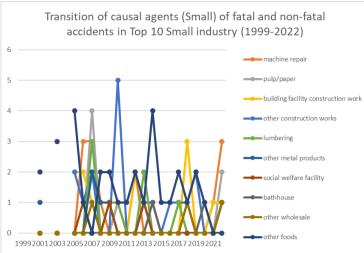
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler in Small Industry (1999-2022)

	tion of causal agents (Smail) of fat										<u> </u>					1	1	1		1		1	1	1			
code	Large industry	1999	2000	2001	2002	2003	2004	2005	2006	5 2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Large industry
01	manufacturing			12		10		17	17	23	9	13	10	7	7	8	8	4	4	8	7	7	5	5	7	188	manufacturing
03	construction			8		4		6	6	5	2	1	10	1	5	3	5	1	6	2	5	3	2	3	2	80	construction
13	health and hygiene service					1			1	1		1			1	1	1		1		1		1		2	12	health and hygiene service
08	commerce			1		1		1	1	4	4	2				1	1			1	1	2			1	21	commerce
15	commercial cleaning and livestock process			4		2		1	2	1	2	3	2	1	3	4	2	1	1	2	1		1			33	commercial cleaning and livestock process
14	hotel/restaurant/amusement service			1		1		2		1		2		2	1		5		1		1	1		1		19	hotel/restaurant/amusement service
17	others			2				4		1			1	3	1			1				2	1			16	others
06	agriculture							1								1						1				3	agriculture
04	transportation service											1										1				2	transportation service
12	education/research service																			1				1		2	education/research service
07	livestock/fishery															1										1	livestock/fishery
02	mining																										mining
05	cargo handling service																										cargo handling service
09	financial business/advertisement																										financial business/advertisement
10	movie/play service																										movie/play service
11	telecommunication service																										telecommunication service
16	public office																										public office
	total			28		19		32	27	36	17	23	23	14	18	19	22	7	13	14	16	17	10	10	12	377	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler in Large industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler in Middle industry (1999-2022)

code Middle industry	1999 20	000 2001 2	2002 2003	2004 2005	5 2006 200	07 2008	2009 20	010 201	1 2012	2013 2	2014 201	5 2016 2	017 201	8 2019	2020	2021 2	2022 t	otal	Middle industry

0117	other manufacturing		2		1	5	3	3	2	1	3	3		2			1		2	1	1	3	33	other manufacturing
0106	pulp/paper processing products						4			1							1	1			1	2	10	pulp/paper processing products
0303	other construction works		5	1	3	3	4	1		8	1	2	2	4	1	4	2	2	3	1	2	1	50	other construction works
0302	construction work		3	3	3	2	1	1	1	1		2	1	1		2		3			1	1	26	construction work
0104	wood products		3			1	3	1	1	2			2		1	1	1	1	1			1	19	wood products
0112	metal products		1				2	1	1				2									1	8	metal products
0801	wholesale				1		1											1				1	4	wholesale
1302	social welfare facility					1			1				1									1	4	social welfare facility
1303	other health and hygiene service													1				1		1		1	4	other health and hygiene service
0101	food products		4	4	7	2	3	2	5	3	2	2	1	5	1	2	2	2	2	4	2		55	food products
1501	commercial cleaning and livestock process		4	2	1	2	1	2	3	2	1	3	4	2	1	1	2	1		1			33	commercial cleaning and livestock process
0108	chemical products			1	3	1	2	2	2	1			1		2	1			1				17	chemical products
1702	others		2		4		1			1	3	1			1				2	1			16	others
0802	retail			1		1	1	4	2				1				1		1				12	retail
0113	machine products			2	3		1		1			2						1			1		11	machine products
0116	electric/gas/water service		1	2		2				1			1				1						8	electric/gas/water service
1401	hotel				1		1				1			3					1		1		8	hotel
0103	fiber products					2	3		1									1					7	fiber products
1403	other amusement service		1	1	1				2			1											6	other amusement service
0115	transport equipment products				2	1							1				1						5	transport equipment products
1402	restaurant										1			2		1		1					5	restaurant
0109	sand and stone products		1			1	1												1				4	sand and stone products
0301	civil engineering work					1				1		1								1			4	civil engineering work
1301	medical treatment service			1			1					1				1							4	medical treatment service
0105	furniture			1		2																	3	furniture
0110	steel making				1						1							1						steel making
0601	agriculture				1								1						1				3	agriculture
0803	haircut/beauty salon		1				2																	haircut/beauty salon
0102	textile products									1							1						2	textile products
0111	nonferrous metal making						1							1									2	nonferrous metal making
0804	other commerce													1					1				2	other commerce
1201	education/research service																1				1		2	education/research service
0114	electrical equipment products										1												1	electrical equipment products

0402	road passenger transport service																		1				1	road passenger transport service
0403	road cargo transportation service								1														1	road cargo transportation service
0702	fishery												1										1	fishery
0107	printing/bookbinding																							printing/bookbinding
0201	coal mining																							coal mining
0202	quarrying																							quarrying
0203	other mining																							other mining
0401	railroad/water transportation/airline service																							railroad/water transportation/airline service
0404	other transportation service																							other transportation service
0501	land cargo handling service																							land cargo handling service
0502	harbor transportation service																							harbor transportation service
0602	forestry																							forestry
0701	livestock																							livestock
0901	financial business																							financial business
0902	advertisement and mediator																							advertisement and mediator
1001	movie/play service																							movie/play service
1101	telecommunication service																							telecommunication service
1601	public office																							public office
1701	dispatch service																							dispatch service
	total		28	19	32	27	36	17	23	23	14	18	19	22	7	13	14	16	17	10	10	12	377	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler in Small industry (1999-2022)

code	Small industry	1999	2000	2001	2002	2003	2004	2005	2006	5 2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Small industry
011702	machine repair								3	3	1		1		2									1	3	14	machine repair
010601	pulp/paper									4			1							1	1				2	9	pulp/paper
030203	building facility construction work			2		3		2	2	1		1	1		2	1					3			1	1	20	building facility construction work
030309	other construction works							2	1	2			5			1	1		1	1	1	2			1	18	other construction works
010401	lumbering									3		1	1			2				1					1	9	lumbering
011209	other metal products			1						2	1	1				1									1	7	other metal products
130201	social welfare facility								1			1				1									1	4	social welfare facility
130301	bathhouse																1				1		1		1	4	bathhouse
080109	other wholesale									1											1				1	3	other wholesale
	other foods			2		3		4	1		2	2	1	1	2	1	4	1	1	2	1	2	1			31	other foods
030302	machinery/apparatus setting			5		1		1	2	1	1		2	1	2	1	3	1	3	1	1	1	1	2		30	machinery/apparatus setting

work																						work
150101 building maintenance service	4	2	1	1	1		2	2			2	1			1			1			18	building maintenance service
170209 others	2		4		1			1	3	1			1				2	1			16	others
011703 cleaning	1		1	2		1	1		2	1		2			1		1	1			14	cleaning
080209 other retails		1		1	1	3	1				1				1						9	other retails
140101 hotel			1		1				1			3					1		1		8	hotel
010104 bread/cake products	1		2		1		2											1			7	bread/cake products
011301 machine products		1	2				1			2						1					7	machine products
150109 other cleaning and livestock process service						1	1		1	1	1		1			1					7	other cleaning and livestock process service
010402 plywood	2			1				1					1	1							6	plywood
010103 agricultural food products	1		1					1	1									1			5	agricultural food products
010301 over/under wear					3		1									1					5	over/under wear
010806 rubber products						1		1					2				1				5	rubber products
140201 general restaurant									1			2		1		1					5	general restaurant
150102 industrial waste management service										1	1	1		1	1						5	industrial waste management service
010102 fishery products					1			1								1			1		4	fishery products
010409 other lumber and wood products	1					1										1	1				4	other lumber and wood products
011501 ship building			1	1			i –				1				1					i –	4	ship building
011601 electric utility service	1							1			1				1					i	4	electric utility service
011709 other manufacturing	1					1			1								1			i –	4	other manufacturing
030209 other building construction work	1		1									1		1							4	other building construction work
130101 hospital		1			1					1				1						i	4	hospital
010101 meat/dairy products		1					1							1						1	3	meat/dairy products
010105 alcoholic drinks							i –					1						1	1	i –	3	alcoholic drinks
011001 steel/iron/rolling products			1						1							1				1	3	steel/iron/rolling products
011305 other precision machine products		1	1		1																3	other precision machine products
011609 other electric/gas/water service		1		2																	3	other electric/gas/water service
030110 water supply/sewage construction work				1						1								1			3	water supply/sewage construction work
060101 agriculture			1								1						1				3	agriculture
080302 beauty salon	1				2																3	beauty salon
140309 other amusement service	1						1			1											3	other amusement service
010106 soft drinks				1	1																2	soft drinks
010204 dyeing								1							1						2	dyeing
010309 other fiber products				2																	2	other fiber products
010509 other furniture				2																	2	other furniture
010804 petroleum/coal products		1	1																	1	2	petroleum/coal products
010805 plastics products	1			1	1		i –		i –	1	i –	i —		1			i —			1	2	plastics products

010809 chemical fertilizer products				1			1											 2	chemical fertilizer products
010899 other chemical products						1						1						 2	other chemical products
011109 other nonferrous metal products						1							1					 2	other nonferrous metal products
030202 wooden house construction work							1							1				2	wooden house construction work
030301 electricity/telecommunication work						1			1									 2	electricity/telecommunication work
080409 other commerce													1			1		 2	other commerce
120109 other education/research service															1		1	 2	other education/research service
140301 golf course			1					1										 2	golf course
150103 other waste disposal service					1		1											 2	other waste disposal service
010501 wood furniture			 1															 1	wood furniture
010602 paper processing products																	1	 1	paper processing products
010801 non organic or organic chemical products					1													1	non organic or organic chemical products
010803 pharmaceuticals								1										1	pharmaceuticals
010807 leather products				1														 1	leather products
010808 painting products								1										 1	painting products
010901 cement products		1																 1	cement products
010902 glass products						1												 1	glass products
010904 fire resisting products																1		 1	fire resisting products
010905 other ceramic products					1													 1	other ceramic products
011204 metal plating products												1						 1	metal plating products
011302 measuring instruments																	1	 1	measuring instruments
011409 other electrical equipment										1								 1	other electrical equipment
011509 other transport equipment products				1														1	other transport equipment products
011603 city water service			 1															 1	city water service
011701 auto mobile servicing								1										 1	auto mobile servicing
030199 other civil engineering work									1									 1	other civil engineering work
040202 bus service																1		 1	bus service
040301 general truck transportation service								1										 1	general truck transportation service
070209 other fishery												1						 1	other fishery
080102 furniture/fittings wholesale				1														 1	furniture/fittings wholesale
080201 all kinds of retail							1											 1	all kinds of retail
080203 furniture/fittings retail								1										 1	furniture/fittings retail
080205 newspaper retail																1		 1	newspaper retail
140302 park and amusement park				1														 1	park and amusement park
150105 livestock process service											1							 1	livestock process service
010201 silk-reeling								<u> </u>										 1	silk-reeling
	\square								i									 1	

010202	cotton-spinning													cotton-spinning
010203	weaving													weaving
010209	other textile products													other textile products
010502	metal furniture													metal furniture
010503	fittings													fittings
010609	other pulp/paper processing products													other pulp/paper processing products
010701	printing service													printing service
010702	bookbinding													bookbinding
010709	other printing and bookbinding													other printing and bookbinding
010802	chemical fiber													chemical fiber
010903	pottery products													pottery products
010909	other sand and stone products													other sand and stone products
011002	casting products													casting products
011009	other steel products													other steel products
	nonferrous metals/rolling products													nonferrous metals/rolling products
	nonferrous metals casting products													nonferrous metals casting products
011201	western tableware/cutting tool products													western tableware/cutting tool products
011202	screw products													screw products
011203	metal press products													metal press products
011303	optical instruments													optical instruments
011304	watch products													watch products
011401	heavy electrical equipment													heavy electrical equipment
011402	electrical appliance													electrical appliance
011403	electronics equipment and telecommunications apparatus													electronics equipment and telecommunications apparatus
011502	auto mobile products													auto mobile products
011503	railway vehicle products													railway vehicle products
	city gas service													city gas service
	tobacco products													tobacco products
	general coal mining						i							general coal mining
020109	other coal mining													other coal mining
020201	quarrying													quarrying
020202	gravel digging													gravel digging
020209	other quarrying													other quarrying
020301	metal mining													metal mining
020302	petroleum mining													petroleum mining
020309	other mining													other mining

																	hydroelectric plant construction work
						ĺ											tunnel construction work
																	subway construction work
						j											railway construction work
												—i					bridge construction work
																	road construction work
												— -				i—i–	river civil engineering work
																	sand collapse prevention civil engineering work
																	land consolidation civil engineering work
																	port/seaside construction work
																	steel frame/reinforced concrete house construction work
																	railroad service
												ī					water transportation service
																	airline service
																	taxi service
																	other passenger transport service
																	specific truck transportation service
																	cargo/ light automobile transportation service
																	other land cargo transportation service
																	other transportation service
																	land cargo handling service
																	general harbor transportation service
																	port cargo handling service
																	other harbor transportation service
																	lumbering
																	other forestry
						i						Ť	i -				livestock
						i											fishery
												Ť	F				all kinds of wholesale
						i											auto mobile retail
												-				i – i –	fuel retail
																	haircut
\square				\vdash								-			 		warehousing
		Image <td>Image with the set of the se</td> <td>Image with the set of the se</td> <td>Image: set of the set of the</td> <td></td> <td>Image: sector of the sector</td> <td></td> <td>Image: set of the set of the</td> <td>Image: selection of the selection of the</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Image with the set of the se	Image with the set of the se	Image: set of the		Image: sector of the sector		Image: set of the	Image: selection of the							

090101 banking/trust business																							banking/trust business
090102 stock/commodity trade business																							stock/commodity trade business
090103 insurance business																							insurance business
090109 other financial business																							other financial business
090201 traveling service																							traveling service
090209 other advertisement and mediator																							other advertisement and mediator
100101 movie production and delivery service																							movie production and delivery service
100102 movie theatre																							movie theatre
100109 other movie/play service																							other movie/play service
110101 telecommunication service																							telecommunication service
120101 auto mobile practical training																							auto mobile practical training
120102 software service																							software service
130102 general clinic																							general clinic
Other medical treatment service																							other medical treatment service
130309 other health and hygiene service																							other health and hygiene service
140209 other restaurants																							other restaurants
150104 cremation service																							cremation service
160101 public office																							public office
170101 dispatch service																							dispatch service
170201 security service																							security service
170202 information processing service																							information processing service
total		28	19	32	27	36	17	23	23	14	18	19	22	7	13	14	16	17	10	10	12	377	total

Data source : <u>https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html</u> (MHLW, Japan)

https://www.jisha.or.jp/english/statistics/202311_12.html