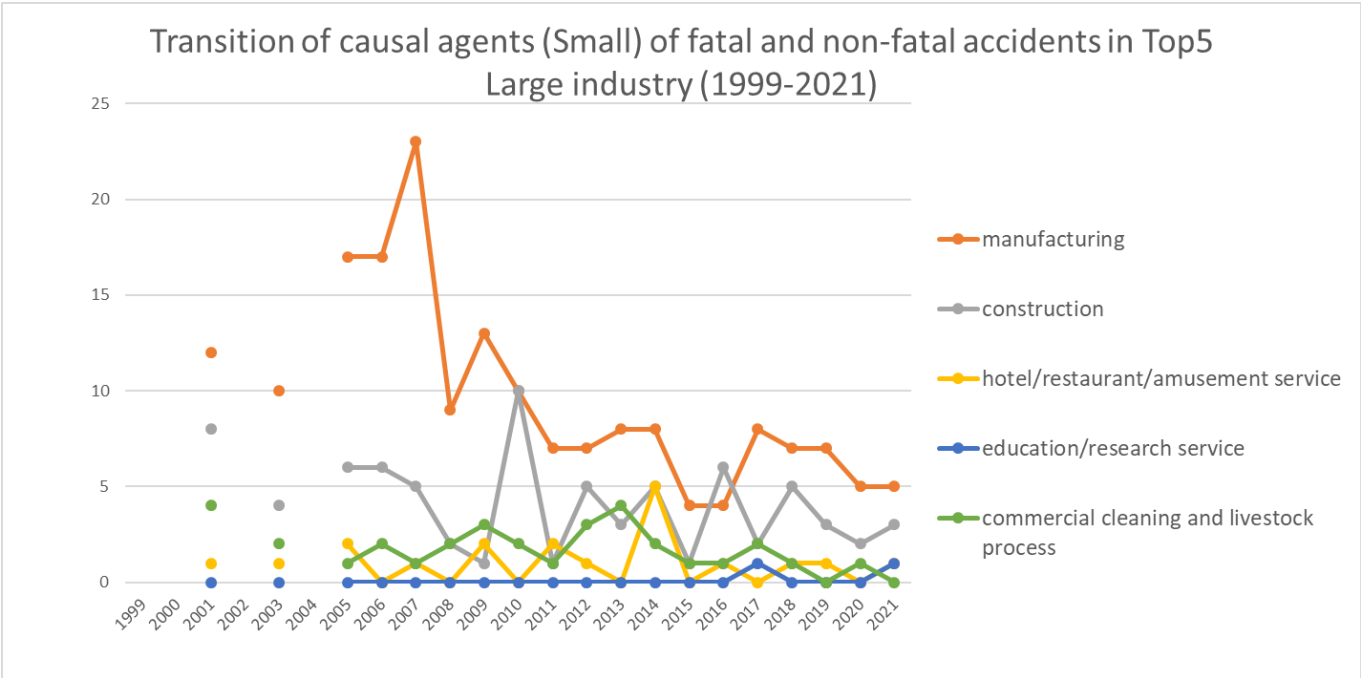
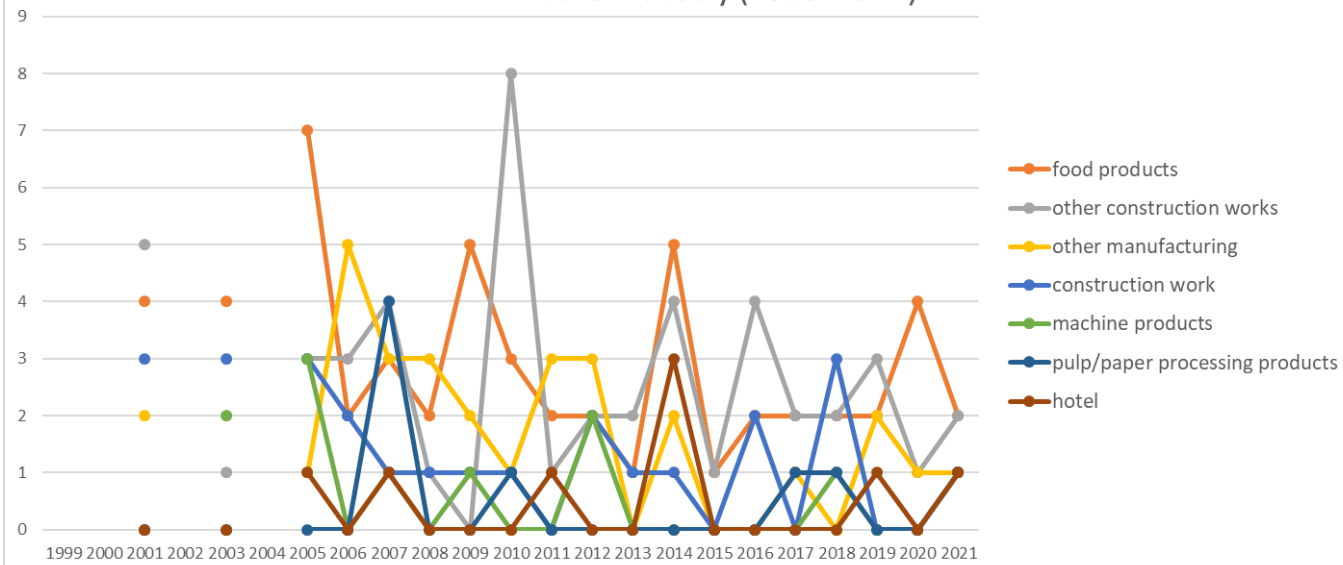


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler (1999-2021)



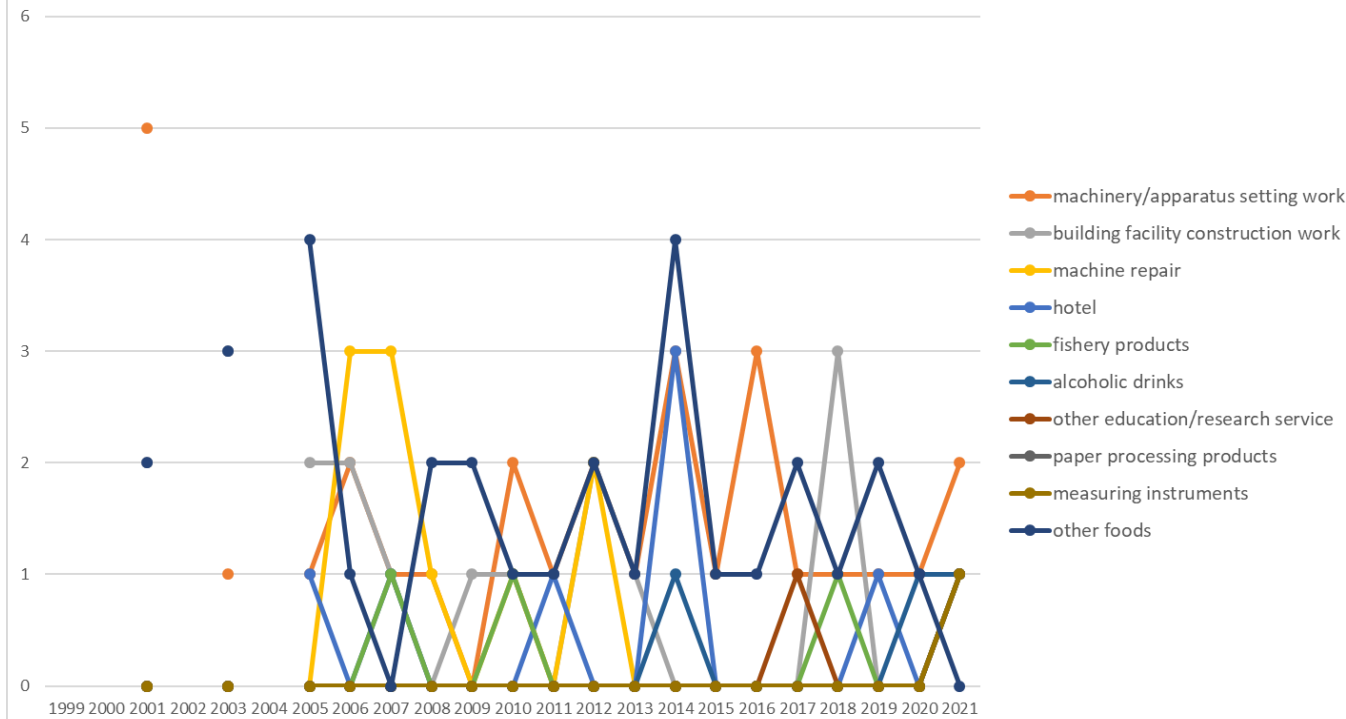
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler in Large industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents in Top7
Middle industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler in Middle Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents in
Top10 Small industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler 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
01	manufacturing			12		10		17	17	23	9	13	10	7	7	8	8	4	4	8	7	7	5	5	181	manufacturing
03	construction			8		4		6	6	5	2	1	10	1	5	3	5	1	6	2	5	3	2	3	78	construction
14	hotel/restaurant/amusement service			1		1		2		1		2		2	1		5		1		1	1		1	19	hotel/restaurant/amusement service
12	education/research service																		1					1	2	education/research service
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
08	commerce			1		1		1	1	4	4	2				1	1			1	1	2			20	commerce

17	others			2				4		1			1	3	1			1				2	1		16	others
13	health and hygiene service					1			1	1		1			1	1	1		1		1		1		10	health and hygiene service
06	agriculture							1								1						1			3	agriculture
04	transportation service											1										1			2	transportation 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	365	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler in Middle industry (1999-2021)

[illegible]

1201	education/research service																			1				1	2	service
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
0104	wood products			3					1	3	1	1	2			2		1	1	1	1	1			18	wood products
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
0116	electric/gas/water service			1		2			2				1			1				1					8	electric/gas/water service
0103	fiber products								2	3		1									1				7	fiber products
0112	metal products			1						2	1	1				2									7	metal 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				3	steel making
0601	agriculture							1								1						1			3	agriculture
0801	wholesale							1		1										1					3	wholesale
0803	haircut/beauty salon			1						2															3	haircut/beauty salon
1302	social welfare facility								1			1				1									3	social welfare facility

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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	365	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 311 boiler in Small industry (1999-2021)

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150101	building maintenance service			4		2		1	1	1		2	2			2	1			1			1		18	building maintenance service
030309	other construction works							2	1	2			5			1	1		1	1	1	2			17	other construction works
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
010401	lumbering									3		1	1			2				1					8	lumbering
010104	bread/cake products			1				2		1		2											1		7	bread/cake products
010601	pulp/paper									4			1							1	1				7	pulp/paper
011301	machine products					1		2				1			2						1				7	machine products
150109	other cleaning and livestock process service											1	1		1	1	1		1						7	other cleaning and livestock process service
010402	plywood			2					1				1					1	1						6	plywood
011209	other metal products			1						2	1	1				1									6	other metal products
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
010409	other lumber and wood products			1							1										1	1			4	other lumber and wood products
011501	ship building							1	1							1				1					4	ship building
011601	electric utility service			1									1			1				1					4	electric utility service
011709	other manufacturing			1							1			1								1			4	other manufacturing
030209	other building construction work			1				1									1		1						4	other building construction work
130101	hospital					1				1					1				1						4	hospital

010101	meat/dairy products					1					1						1						3	meat/dairy products
011001	steel/iron/rolling products							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
130201	social welfare facility							1			1			1									3	social welfare facility
130301	bathhouse													1				1		1			3	bathhouse
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															2	petroleum/coal products
010805	plastics products								1								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

080109	other wholesale								1										1				2	other wholesale
080409	other commerce														1				1				2	other commerce
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
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
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	livestock process service
010201	silk-reeling																									silk-reeling
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
011101	nonferrous metals/rolling products																									nonferrous metals/rolling products
011102	nonferrous metals casting products																									nonferrous metals casting products

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

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