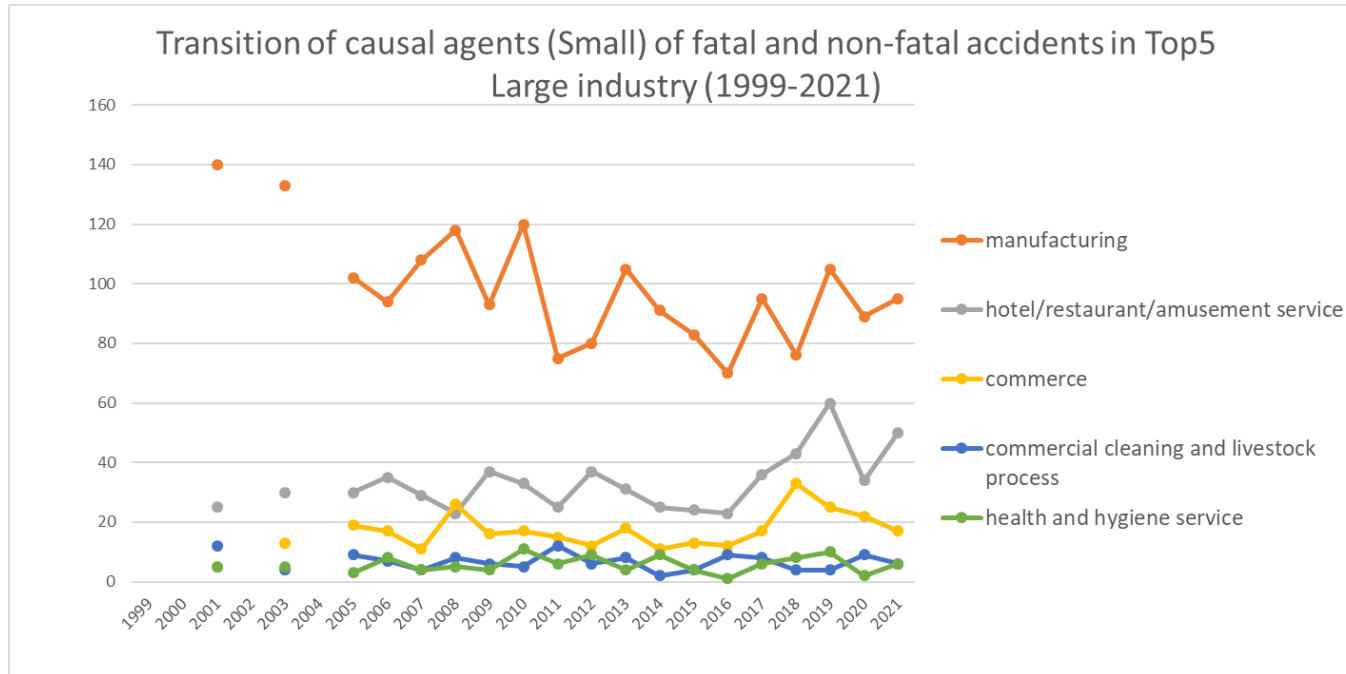
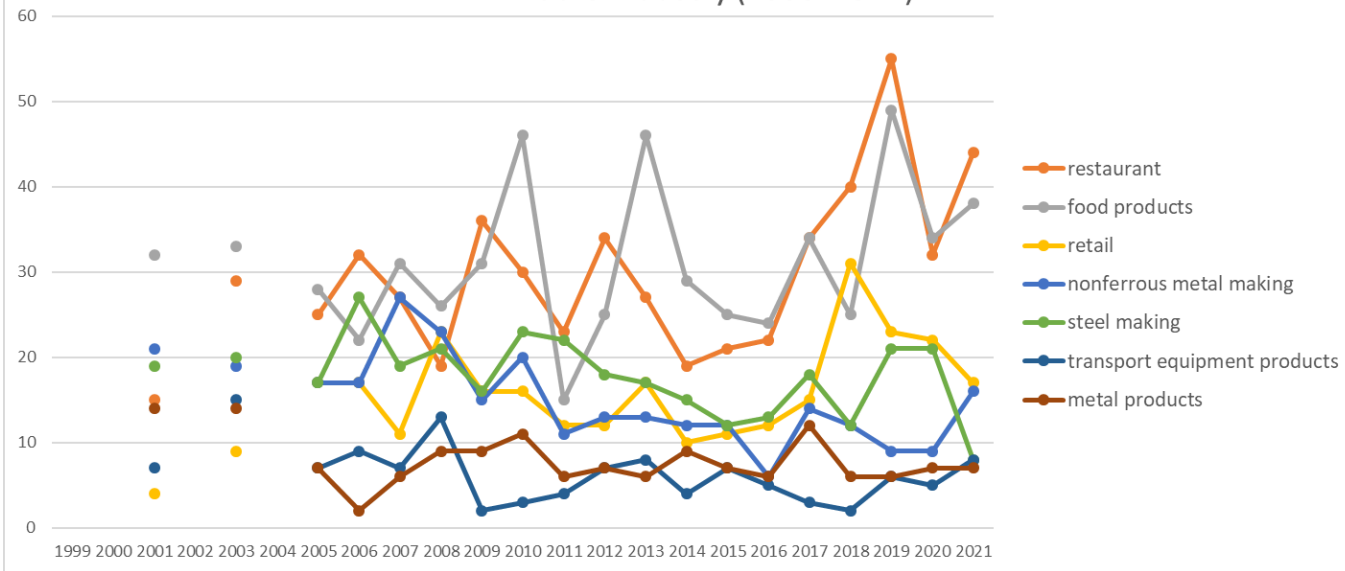


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 341 kiln, caldron (1999-2021)



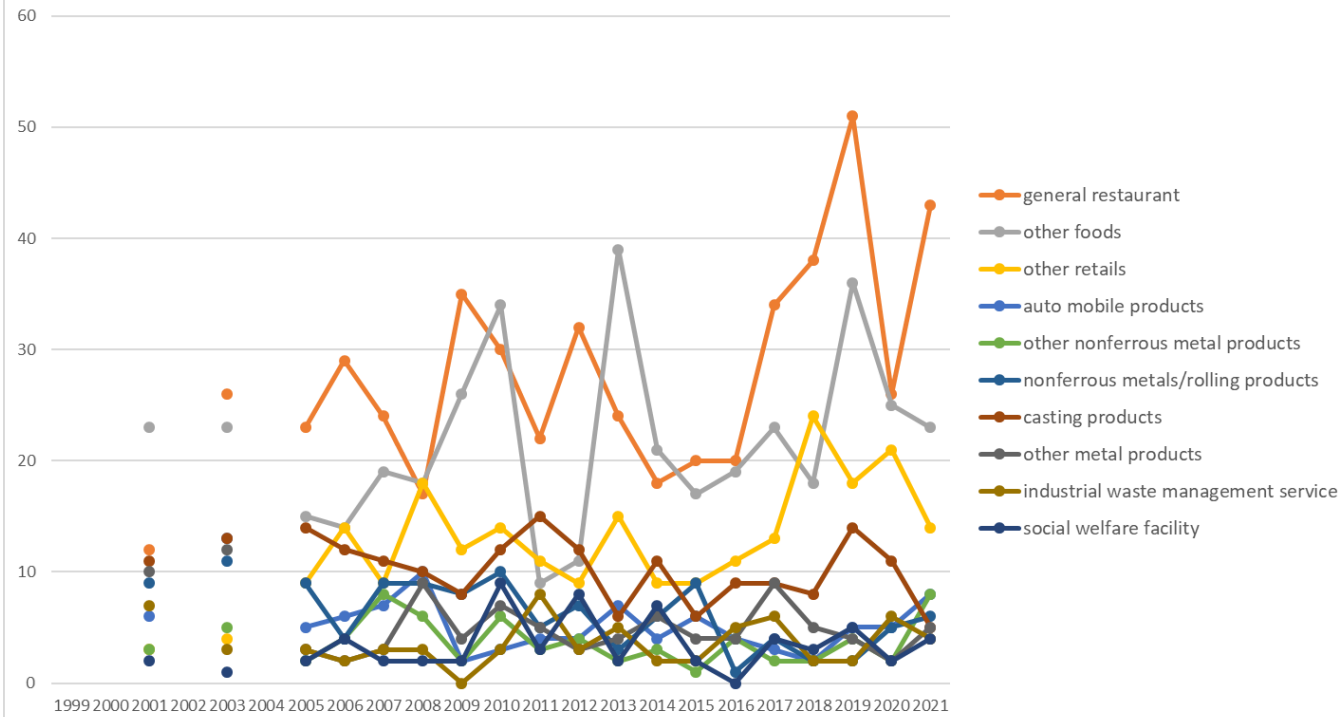
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 341 kiln, caldron in Large industry (1999-2021)

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. 341 kiln, caldron 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. 341 kiln, caldron in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 341 kiln, caldron 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			140		133		102	94	108	118	93	120	75	80	105	91	83	70	95	76	105	89	95	1,872	manufacturing
14	hotel/restaurant/amusement service			25		30		30	35	29	23	37	33	25	37	31	25	24	23	36	43	60	34	50	630	hotel/restaurant/amusement service
08	commerce			5		13		19	17	11	26	16	17	15	12	18	11	13	12	17	33	25	22	17	319	commerce
15	commercial cleaning and livestock process			12		4		9	7	4	8	6	5	12	6	8	2	4	9	8	4	4	9	6	127	commercial cleaning and livestock process
13	health and hygiene service			5		5		3	8	4	5	4	11	6	9	4	9	4	1	6	8	10	2	6	110	health and hygiene service
03	construction			11		12		10	12	8	3	10	7	6	2	5	5	11	3	6	3	8	11	3	136	construction

17	others			3		1		3	4	3	1	3		3	3		1	2			3	1	4	1	36	others
04	transportation service			1		1		2		1		1		2	2	1	3				1		1		16	transportation service
12	education/research service			2		2		3	2	3	1	2		2		1				1					19	education/research service
05	cargo handling service			1		1			1	1															4	cargo handling service
06	agriculture											1						1			1	1			4	agriculture
16	public office					1		2	1																4	public office
02	mining								1							1									2	mining
07	livestock/fishery													1											1	livestock/fishery
09	financial business/advertisement										1														1	financial business/advertisement
10	movie/play service																									movie/play service
11	telecommunication service																									telecommunication service
	total			205		203		181	182	174	185	173	194	144	151	174	146	145	119	169	170	215	172	179	3,281	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 341 kiln, caldron 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
1402	restaurant			15		29		25	32	27	19	36	30	23	34	27	19	21	22	34	40	55	32	44	564	restaurant
0101	food products			32		33		28	22	31	26	31	46	15	25	46	29	25	24	34	25	49	34	38	593	food products
0802	retail			4		9		17	17	11	23	16	16	12	12	17	10	11	12	15	31	23	22	17	295	retail
0111	nonferrous metal making			21		19		17	17	27	23	15	20	11	13	13	12	12	6	14	12	9	9	16	286	nonferrous metal making
0110	steel making			19		20		17	27	19	21	16	23	22	18	17	15	12	13	18	12	21	21	8	339	steel making
0115	transport equipment products			7		15		7	9	7	13	2	3	4	7	8	4	7	5	3	2	6	5	8	122	transport equipment products
0112	metal products			14		14		7	2	6	9	9	11	6	7	6	9	7	6	12	6	6	7	7	151	metal products
	commercial cleaning and livestock																									commercial cleaning

1501	process			12	4	9	7	4	8	6	5	12	6	8	2	4	9	8	4	4	9	6	127	and livestock process
0117	other manufacturing			6	4	1	1		4	3		3		2	2	1	4	2	2	1	1	5	42	other manufacturing
0113	machine products			5	11	4	1	6	3	1	6	2	2	1	7	6	1	2	4		4	4	70	machine products
1302	social welfare facility			2	1	2	4	2	2	2	9	3	8	2	7	2		4	3	5	2	4	64	social welfare facility
1401	hotel			2	1	4	2		1		2			4	5	2		1	1	4	2	4	35	hotel
0108	chemical products			10	2	5	1	3	7	3	4	4	1	4	6	3	3	2	4	4	4	2	72	chemical products
0302	construction work			6	4	7	6	3	1	2	2	4	1	1	2	3		3	1	2	5	2	55	construction work
1301	medical treatment service			2	4	1	3	1	3	2	2	3	1	2	2	2	1	2	5	5		2	43	medical treatment service
1403	other amusement service			8		1	1	2	3	1	1	2	3		1	1	1	1	2	1		2	31	other amusement service
0114	electrical equipment products				3	1	2	1	1	1	1	1	2	2	1	2	1		3	4	2	2	30	electrical equipment products
0105	furniture			1	1	1	2	1		2	2							2	3			2	17	furniture
0303	other construction works			4	7	3	4	5	1	7	5	1	1	3	3	8	3	2	2	6	5	1	71	other construction works
1702	others			3	1	3	4	1	1	3		3	3		1	2			3	1	4	1	34	others
0102	textile products			3	1	1	2	1	1					1			2	2		1		1	16	textile products
0103	fiber products			1			1			1												1	4	fiber products
0107	printing/bookbinding			1	1																	1	3	printing/bookbinding
0404	other transportation service																					1	1	other transportation service
0109	sand and stone products			12	4	4	5	3	4	5	3	5	3	5	5	8	4	2	1	2	1		76	sand and stone products
0104	wood products			6	5	8	1	2	3	2	1	2	2		1		1	2	1	2			39	wood products
1201	education/research service			2	2	3	2	3	1	2		2			1			1					19	education/research service

0801	wholesale			1		3		2			3			2		1	1			1	2	2			18	wholesale	
0301	civil engineering work			1		1			2		1	1		1		1				1			1			10	civil engineering work
0403	road cargo transportation service					1		1		1		1			2	1		1				1				9	road cargo transportation service
0106	pulp/paper processing products			1				1	1	1	1	1										1		1		8	pulp/paper processing products
0401	railroad/water transportation/airline service			1												1	1	2								5	railroad/water transportation/airline service
0116	electric/gas/water service			1							2	1														4	electric/gas/water service
0501	land cargo handling service			1		1			1	1																4	land cargo handling service
0804	other commerce					1								1			1		1							4	other commerce
1601	public office					1			2	1																4	public office
0601	agriculture												1					1				1				3	agriculture
1303	other health and hygiene service			1					1	1																3	other health and hygiene service
0202	quarrying									1								1								2	quarrying
0803	haircut/beauty salon												1					1								2	haircut/beauty salon
1701	dispatch service									2																2	dispatch service
0402	road passenger transport service							1																		1	road passenger transport service
0602	forestry																							1		1	forestry
0701	livestock															1										1	livestock
0902	advertisement and mediator											1														1	advertisement and mediator

011301	machine products			5		10		4	1	5	2	1	5	2	2	1	7	5	1	2	3		3	4	63	machine products
010104	bread/cake products			3		3		2	3	3	4	1	2	2	3		5	3	1	4	3	3	3	4	52	bread/cake products
010102	fishery products			2		2		7	1	4	1		3	1	6	4	1	2		3	2	4	4	4	51	fishery products
140101	hotel			2		1		4	2		1		2			4	5	2		1	1	4	2	4	35	hotel
011001	steel/iron/rolling products			6		5		2	11	8	8	8	9	5	5	10	2	4	4	7	2	7	9	3	115	steel/iron/rolling products
080201	all kinds of retail					4		8	3	2	4	4	2	1	3	1	1	2	1	2	7	5	1	3	54	all kinds of retail
011102	nonferrous metals casting products			9		3		6	9	10	8	5	4	3	2	8	3	2	1	8	8	3	2	2	96	nonferrous metals casting products
011204	metal plating products			2		1		4		3		4	4		3	2	3	3	1	2		1	4	2	39	metal plating products
130101	hospital					3			3	1	3	2	2	1	1	2	2	2	1	2	5	5		2	37	hospital
010101	meat/dairy products			1		2		1	4	3	1		3		2	2	2	1	1	3	2	2	1	2	33	meat/dairy products
011709	other manufacturing			2		3					2	3		3			2	1	3	2	1	1	1	2	26	other manufacturing
150103	other waste disposal service			1				3	2		3	2	1			1			3		2		2	2	22	other waste disposal service
140309	other amusement service			1				1		2	2	1	1	1	2		1	1		1	2	1		2	19	other amusement service
010105	alcoholic drinks			1		3				1		1							1	1		2	1	2	13	alcoholic drinks
010501	wood furniture			1		1		1	2			2									3			2	12	wood furniture
010106	soft drinks								1	1	1													2	5	soft drinks
011703	cleaning								1															2	3	cleaning
030309	other construction works			3		6		2	2	4	1	2	3	1	1	2	2	7	1	1	1	2	2	1	44	other construction works
140209	other restaurants			3		3		2	3	3	2	1		1	2	3	1	1	2		2	4	6	1	40	other restaurants
170209	others			3		1		3	4	1	1	3		3	3		1	2			3	1	4	1	34	others
010103	agricultural food products			2				3			1	2	4	3	3	1		2	2			2		1	26	agricultural food products
010899	other chemical products			4						1		1	1		1	1		2		1	1	1	1	1	15	other chemical products
011403	electronics equipment and telecommunications apparatus					2		1	2					1		1		1			1	2	1	1	13	electronics equipment and telecommunications apparatus
011409	other electrical equipment					1				1		1	1		2		1	1			2			1	11	other electrical equipment

030202	wooden house construction work			2		1			1	2										1	1	1	11	wooden house construction work	
030203	building facility construction work			1					2						1	1		1		1	2	1	11	building facility construction work	
010204	dyeing			2				1	2						1			2	1			1	10	dyeing	
011701	auto mobile servicing			4														1				1	7	auto mobile servicing	
010803	pharmaceuticals							1		1								1	1			1	5	pharmaceuticals	
010309	other fiber products			1					1				1									1	4	other fiber products	
010701	printing service			1																		1	2	printing service	
040409	other transportation service																					1	1	other transportation service	
010902	glass products			2		3		3	1	1	1	1	1	2	1	1	1	1	1	1	1		27	glass products	
011009	other steel products			2		2		1	4		3		2	2	1	1	2	2		2	2	1	27	other steel products	
030302	machinery/apparatus setting work			1		1		1	2	1		5	2			1	1	1	2	1	1	4	3	27	machinery/apparatus setting work
010909	other sand and stone products			6					3	2	3	1		2	2	2	2	2			1		26	other sand and stone products	
030209	other building construction work			3		2		6	3	1		2	1	2			1	2		2		1	26	other building construction work	
010409	other lumber and wood products			3		2		4	1		2	1	1	2	2		1					1	20	other lumber and wood products	
010801	non organic or organic chemical products			3		2		1			2	2	2	2			1	1	1	1	1	1	20	non organic or organic chemical products	
120109	other education/research service			2		2		3	2	3	1	2		2			1			1			19	other education/research service	
150109	other cleaning and livestock process service			3		1		1	1	1		3		1	2	2		1	1			1	18	other cleaning and livestock process service	
080109	other wholesale			1		3		2			3			2		1	1			1	2	1	17	other wholesale	

010401	lumbering			3	2	4	1	1	1						1	2		1			16	lumbering
011509	other transport equipment products			1	2	3	2					3	1		1	1		1			15	other transport equipment products
150101	building maintenance service					1	2	1	1	1	3	1			1		1		2		14	building maintenance service
010804	petroleum/coal products					1	1	1				1	1	1			1	1	1		9	petroleum/coal products
010805	plastics products			1		2	1		1		1		1				1				9	plastics products
010806	rubber products			1				1	1			1	4								8	rubber products
140302	park and amusement park			5		1					1	1									8	park and amusement park
010903	pottery products			2		1			1	2		1									7	pottery products
030201	steel frame/reinforced concrete house construction work				1	1		1	1						1		1		1		7	steel frame/reinforced concrete house construction work
040301	general truck transportation service				1	1	1	1			2							1			7	general truck transportation service
010209	other textile products			1	1			1	1							1		1			6	other textile products
010904	fire resisting products								3					2	1						6	fire resisting products
011203	metal press products			1					1	1	1					1	1				6	metal press products
011702	machine repair				1	1		1				2					1				6	machine repair
030199	other civil engineering work				1		2	1			1								1		6	other civil engineering work
010809	chemical fertilizer products							1	2			1							1		5	chemical fertilizer products
010901	cement products			1								1	1		1				1		5	cement products
010905	other ceramic products			1	1		1								1	1					5	other ceramic products
010601	pulp/paper			1					1								1		1		4	pulp/paper
011305	other precision machine products								1		1				1				1		4	other precision machine products
011401	heavy electrical equipment														1		2	1			4	heavy electrical equipment
011602	city gas service			1					2	1											4	city gas service

030106	road construction work			1							1				1					4	road construction work	
040103	airline service														1	1	2				4	airline service
050101	land cargo handling service			1	1		1	1													4	land cargo handling service
080409	other commerce				1										1		1				4	other commerce
130109	other medical treatment service			2	1										1						4	other medical treatment service
140301	golf course			2					1								1				4	golf course
150104	cremation service			1			1		1								1				4	cremation service
160101	public office				1		2	1													4	public office
010402	plywood				1			1											1		3	plywood
010509	other furniture											1							2		3	other furniture
010602	paper processing products					1		1	1												3	paper processing products
011202	screw products			1													1			1	3	screw products
011501	ship building						2		1												3	ship building
060101	agriculture											1					1			1	3	agriculture
130301	bathroom			1			1	1													3	bathroom
010503	fittings							1				1									2	fittings
011201	western tableware/cutting tool products				1															1	2	western tableware/cutting tool products
011302	measuring instruments							1											1		2	measuring instruments
011402	electrical appliance								1						1						2	electrical appliance
020201	quarrying							1									1				2	quarrying
040302	specific truck transportation service														1		1				2	specific truck transportation service
080204	fuel retail				1				1												2	fuel retail
080301	haircut											1					1				2	haircut
130102	general clinic						1								1						2	general clinic

170101	dispatch service									2										2	dispatch service
010609	other pulp/paper processing products									1										1	other pulp/paper processing products
010709	other printing and bookbinding					1														1	other printing and bookbinding
010807	leather products			1																1	leather products
011303	optical instruments					1														1	optical instruments
040101	railroad service			1																1	railroad service
040202	bus service									1										1	bus service
060201	lumbering																	1		1	lumbering
070101	livestock																		1	1	livestock
080101	all kinds of wholesale																		1	1	all kinds of wholesale
080202	auto mobile retail			1																1	auto mobile retail
080203	furniture/fittings retail																		1	1	furniture/fittings retail
090209	other advertisement and mediator																			1	other advertisement and mediator
010201	silk-reeling																				silk-reeling
010202	cotton-spinning																				cotton-spinning
010203	weaving																				weaving
010301	over/under wear																				over/under wear
010502	metal furniture																				metal furniture
010702	bookbinding																				bookbinding
010802	chemical fiber																				chemical fiber
010808	painting products																				painting products
011304	watch products																				watch products
011503	railway vehicle products																				railway vehicle products

