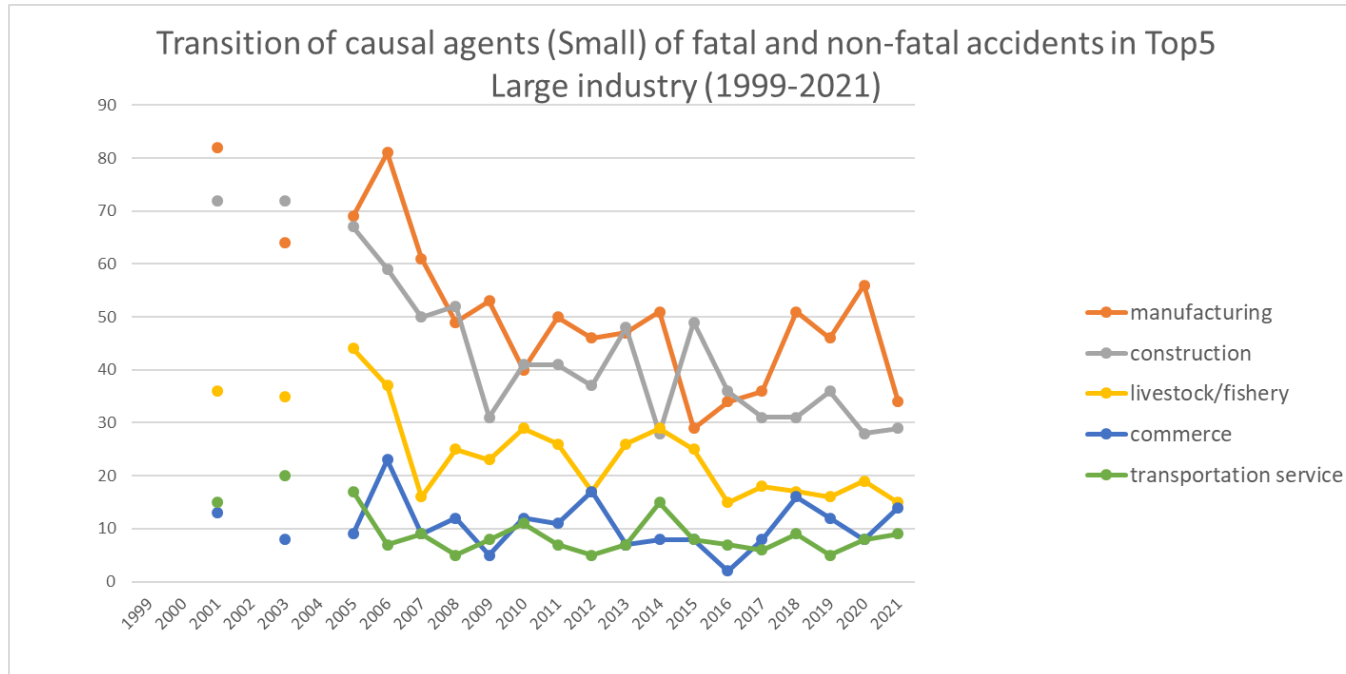
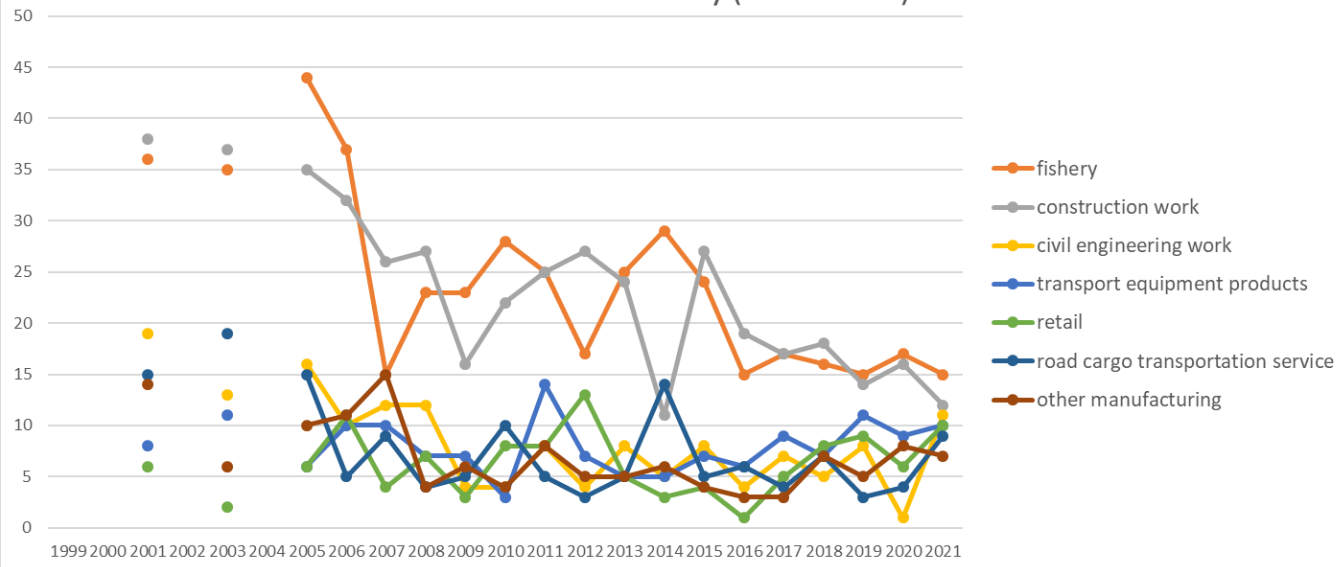


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane (1999-2021)



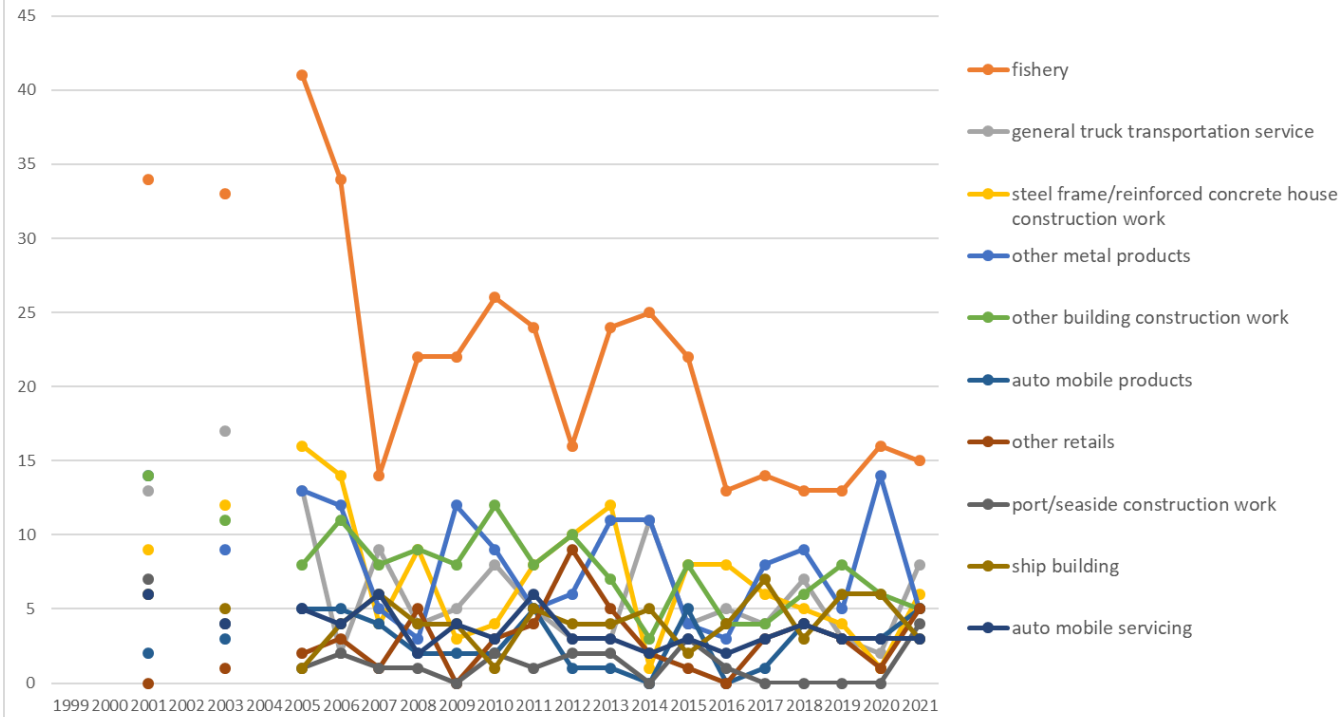
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane in Large industry (1999-2021)

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. 219 other powered crane 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. 219 other powered crane in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane 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			82		64		69	81	61	49	53	40	50	46	47	51	29	34	36	51	46	56	34	979	manufacturing
03	construction			72		72		67	59	50	52	31	41	41	37	48	28	49	36	31	31	36	28	29	838	construction
07	livestock/fishery			36		35		44	37	16	25	23	29	26	17	26	29	25	15	18	17	16	19	15	468	livestock/fishery
08	commerce			13		8		9	23	9	12	5	12	11	17	7	8	8	2	8	16	12	8	14	202	commerce
04	transportation service			15		20		17	7	9	5	8	11	7	5	7	15	8	7	6	9	5	8	9	178	transportation service
05	cargo handling service			4		1		3	2	2	1	1	3	1	1	2	3	1	3	1	1	2		4	36	cargo handling service
15	commercial cleaning and livestock process			4		1		6	3	4	1	8	2	2	3	2	2	6	8		8	5		3	68	commercial cleaning and livestock process

02	mining		8			1		1	1	1	2			1			1	2			2	2	22	mining
06	agriculture		6	7		12	7	4	14	8	11	8	8	8	5	3	3	1	4	3	1	1	114	agriculture
17	others		2	8		3	1	4	3	3	4	2	5	2	1	3	2	1	3	3	2	1	53	others
14	hotel/restaurant/amusement service		2	9		2	3	5	1	1	1	3	4	3	1	3	3	2	2	1	5	1	52	hotel/restaurant/amusement service
13	health and hygiene service			4		1	2	1	2	1		3	2		1	1	2	1	1	2	1	1	26	health and hygiene service
12	education/research service									1		1	1		1							1	5	education/research service
11	telecommunication service								1		1						1					1	4	telecommunication service
10	movie/play service		1				1		2			1					1	1		1			8	movie/play service
09	financial business/advertisement		1								1			2									4	financial business/advertisement
16	public office									1													1	public office
	total		246	229		234	226	166	169	145	158	156	146	155	145	136	118	108	143	132	130	116	3,058	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 219 other powered crane 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	
0702	fishery			36		35		44	37	15	23	23	28	25	17	25	29	24	15	17	16	15	17	15	456	fishery	
0302	construction work			38		37		35	32	26	27	16	22	25	27	24	11	27	19	17	18	14	16	12	443	construction work	
0301	civil engineering work			19		13		16	10	12	12	4	4	8	4	8	5	8	4	7	5	8	1	11	159	civil engineering work	
0115	transport equipment products			8		11		6	10	10	7	7	3	14	7	5	5	7	6	9	7	11	9	10	152	transport equipment products	
0802	retail			6		2		6	11	4	7	3	8	8	13	5	3	4	1	5	8	9	6	10	119	retail	
0403	road cargo transportation service			15		19		15	5	9	4	5	10	5	3	5	14	5	6	4	7	3	4	9	147	road cargo transportation service	
0117	other manufacturing			14		6		10	11	15	4	6	4	8	5	5	6	4	3	3	7	5	8	7	131	other manufacturing	
																											other construction

0116	electric/gas/water service								3														1	4	service	
1101	telecommunication service										1		1										1	4	telecommunication service	
1403	other amusement service			2		7		2	2	4	1	1	1	3	2	2	1	3	3	2	2		4		42	other amusement service
0104	wood products			2		1		2	4	1	2	1	1	1	3	1				3		2			24	wood products
0106	pulp/paper processing products			3		3		1	1		1	2	1		1	3	1			3			2		22	pulp/paper processing products
0114	electrical equipment products			3		1		3	1	2	2	1			3	1	1	1	1		1	1			22	electrical equipment products
0401	railroad/water transportation/airline service					1		1	1			2	1	2	2	2	1		1	2	1	2	2		21	railroad/water transportation/airline service
0102	textile products			1		1		1		2	2			1					1	1	2		1		13	textile products
0601	agriculture			1		1		1		1	2	1				2				1		1	1		12	agriculture
0701	livestock									1	2		1	1		1		1		1	1	1	2		12	livestock
0105	furniture			1		3		1		1		1		2						1		1			11	furniture
0402	road passenger transport service								1		1	1						3			1		1		8	road passenger transport service
1001	movie/play service			1					1		2			1						1	1		1		8	movie/play service
1301	medical treatment service										1	1	1							1			1		5	medical treatment service
1402	restaurant					1				1					1							1			4	restaurant
0901	financial business			1												1									3	financial business
0103	fiber products					1			1																2	fiber products
0201	coal mining			2																					2	coal mining
																										other transportation

011501	ship building			6		5		1	4	6	4	4	1	5	4	4	5	2	4	7	3	6	6	3	80	ship building
011701	auto mobile servicing			6		4		5	4	6	2	4	3	6	3	3	2	3	2	3	4	3	3	3	69	auto mobile servicing
030309	other construction works			3		5		5	4	6	5	2	2	2	2	5	1	2	3	3	1	8	7	3	69	other construction works
011301	machine products			6		2		8	9	4	5	5	5	3	4	4	4	1	7	2	8	3	2	2	84	machine products
030301	electricity/telecommunication work			7		8		4	6	2	3	7	7		2	5	8	4	3	1	4	3	2	2	78	electricity/telecommunication work
030199	other civil engineering work			4		5		9	2	7	3	2		3		3	1		1	2	4	3	1	2	52	other civil engineering work
080109	other wholesale			3		3		2	7	3	4	2	2	1	2	1	3	3	1		4	3	1	2	47	other wholesale
080202	auto mobile retail			2		1		1	3	1	1		4	2	1		1	2		1	4	5	3	2	34	auto mobile retail
011702	machine repair			4		1		4	4	4	1	1			1	2	1	1				1	1	2	28	machine repair
010909	other sand and stone products			4				1		1	1	1	2	3	2		1	1		1	1			2	21	other sand and stone products
150102	industrial waste management service			1				3		3			1	1			1	1	2	4		2		2	21	industrial waste management service
010102	fishery products					3		2	1	1	1	1		1	2		2				1	2	1	2	20	fishery products
011509	other transport equipment products					3					1	1		4	1				2	1		1		2	16	other transport equipment products
050101	land cargo handling service			2				1	1	2			2		1			1	2			2		2	16	land cargo handling service
011001	steel/iron/rolling products			2		2		3		1	1			1				1			1	1		2	15	steel/iron/rolling products
011703	cleaning			1						1				1								1		2	6	cleaning
030109	land consolidation civil engineering work							1			1						1		1					2	6	land consolidation civil engineering work
030302	machinery/apparatus setting work			5		9		7	7	4	5	2	6	6	2	6	3	8	7	3	3	3	2	1	89	machinery/apparatus setting work
060201	lumbering			5		6		8	5	3	10	4	10	5	7	4	3	2	2		4	2		1	81	lumbering
170209	others			2		8		3	1	4	3	2	2	2	4	2	1	3	1	1	3	3	1	1	47	others
030203	building facility construction			3		4		4	1	2	4	2	3	2	2	2		3	2	2	4		2	1	43	building facility construction

	work																							work		
150101	building maintenance service						2	2	1	1	6		2	2	1	1	3	1		2	4		1	29	building maintenance service	
130201	social welfare facility				4		1	2		1			3	2		1	1	1	1	1	2		1	21	social welfare facility	
080204	fuel retail						2	2	1	1	1	1	1	1			1		1		1	2	1	16	fuel retail	
050202	port cargo handling service			2		1		2	1		1		1	1		2	3						1	15	port cargo handling service	
030106	road construction work			2		2		2	2		1	2					1			1			1	14	road construction work	
080201	all kinds of retail			3				1	2	1		2		1	2				1				1	14	all kinds of retail	
010701	printing service					1				1		1	2	1		1	1	1				2	1	12	printing service	
040302	specific truck transportation service			2		1		2	2							1	2		1				1	12	specific truck transportation service	
011102	nonferrous metals casting products					1		1	1	1		1				1	1	1	1			1	1	11	nonferrous metals casting products	
020201	quarrying			3				1			1		1			1				2			1	10	quarrying	
030104	railway construction work								2				1	1		1	1	1		1			1	9	railway construction work	
020202	gravel digging			2						1		1							1			2	1	8	gravel digging	
080401	warehousing					1			2							1	1			1			1	7	warehousing	
030107	river civil engineering work										1		1					1		2			1	6	river civil engineering work	
140101	hotel					1			1					1	1							1	1	6	hotel	
010801	non organic or organic chemical products									1		1	1						1				1	5	non organic or organic chemical products	
120109	other education/research service										1		1	1		1							1	5	other education/research service	
011603	city water service							3															1	4	city water service	
050209	other harbor transportation service																		1	1	1			1	4	other harbor transportation service
110101	telecommunication service										1		1						1				1	4	telecommunication service	
080101	all kinds of wholesale			1																			1	2	all kinds of wholesale	

080203	furniture/fitings retail																						1	1	furniture/fitings retail	
030202	wooden house construction work			12		10		7	6	12	5	3	3	7	5	3	7	8	5	5	3	2	7		110	wooden house construction work
010901	cement products			11		4		2	6	3	7	2	3		4	3	4		2		1	3	5		60	cement products
010109	other foods			4		2		4	2	3	2	1		2	2		8	2	1	1	1	1	2		38	other foods
011002	casting products			2		1		1	6	3	2	2	2	1		2		4	1	1	3	3	1		35	casting products
070209	other fishery			2		2		3	3	1	1	1	2	1	1	1	4	2	2	3	3	2	1		35	other fishery
140309	other amusement service			2		7		1	2	2	1	1	1	2	1	1	1	3	2	2	1		4		34	other amusement service
011709	other manufacturing			3		1		1	3	4	1	1	1	1	1		3		1		3		4		28	other manufacturing
080409	other commerce			2		2		1	3	2	1		2	2	2		1	1		3	3		1		26	other commerce
060209	other forestry							3	2		2	3	1	3	1	2	2	1	1						21	other forestry
011204	metal plating products			1		1		1	1	2	1						1		2	1	1	2	4		18	metal plating products
010805	plastics products			1				1	1		1		2	2		2			2		3		1		16	plastics products
010101	meat/dairy products			2		3		1	2			1	1	2	1	1					1				15	meat/dairy products
011409	other electrical equipment			1				2	1	2	1	1			2	1			1		1				13	other electrical equipment
030110	water supply/sewage construction work			2		1		1		2	1				2	1	1			1		1			13	water supply/sewage construction work
040102	water transportation service							1	1			1	1		2	1	1		1	1	1	1	1		13	water transportation service
010401	lumbering							1	1	1	2	1	1	1	1					1		2			12	lumbering
010602	paper processing products					2					1	1	1		1	2	1		2				1		12	paper processing products
011009	other steel products							1	1	2					1	1	1			2	1	2			12	other steel products
060101	agriculture			1		1		1		1	2	1				2				1		1	1		12	agriculture
070101	livestock									1	2		1	1		1		1		1	1	1	2		12	livestock
010104	bread/cake products			2		1			1		1		1					1	1		1	1	1		11	bread/cake products
030105	bridge construction work			3				1			3				2		1	1							11	bridge construction work
011305	other precision machine products							2	1		1		1	1	1	2	1								10	other precision machine products

010409	other lumber and wood products			1	1	1	3							1							9	other lumber and wood products
010601	pulp/paper			3						1				1			1			1	8	pulp/paper
040101	railroad service					1						1	2			1			1	1	8	railroad service
040309	other land cargo transportation service					1						1			1	1	1			2	8	other land cargo transportation service
010106	soft drinks											2			1	1					7	soft drinks
100109	other movie/play service			1													1	1		1	7	other movie/play service
150105	livestock process service			1													2		2	1	7	livestock process service
010209	other textile products					1		1												2	6	other textile products
010501	wood furniture			1															1	1	6	wood furniture
010806	rubber products																			2	6	rubber products
010899	other chemical products																				6	other chemical products
011109	other nonferrous metal products																				6	other nonferrous metal products
030102	tunnel construction work			1		1														1	6	tunnel construction work
040201	taxi service																			1	6	taxi service
150103	other waste disposal service					1		1												1	6	other waste disposal service
010902	glass products																				5	glass products
011403	electronics equipment and telecommunications apparatus			1		1															5	electronics equipment and telecommunications apparatus
030108	sand collapse prevention civil engineering work																				5	sand collapse prevention civil engineering work
140301	golf course																				5	golf course
150109	other cleaning and livestock process service			2																	5	other cleaning and livestock process service

