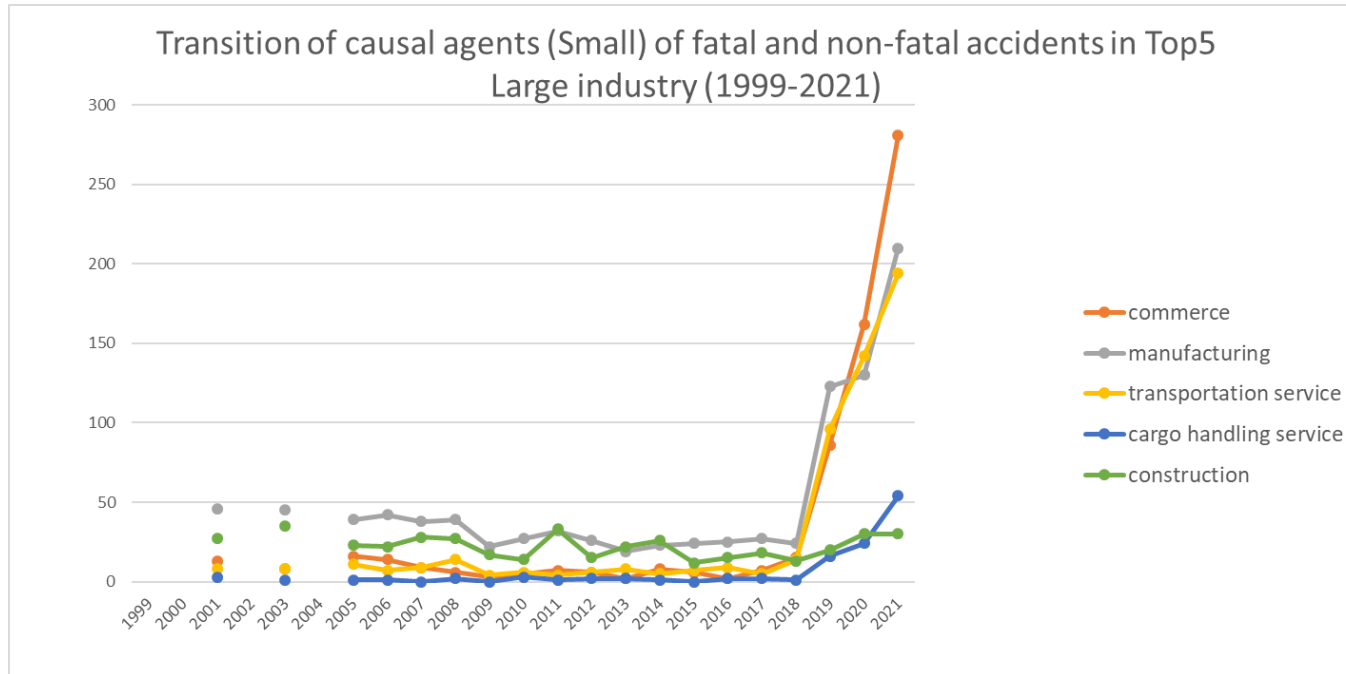
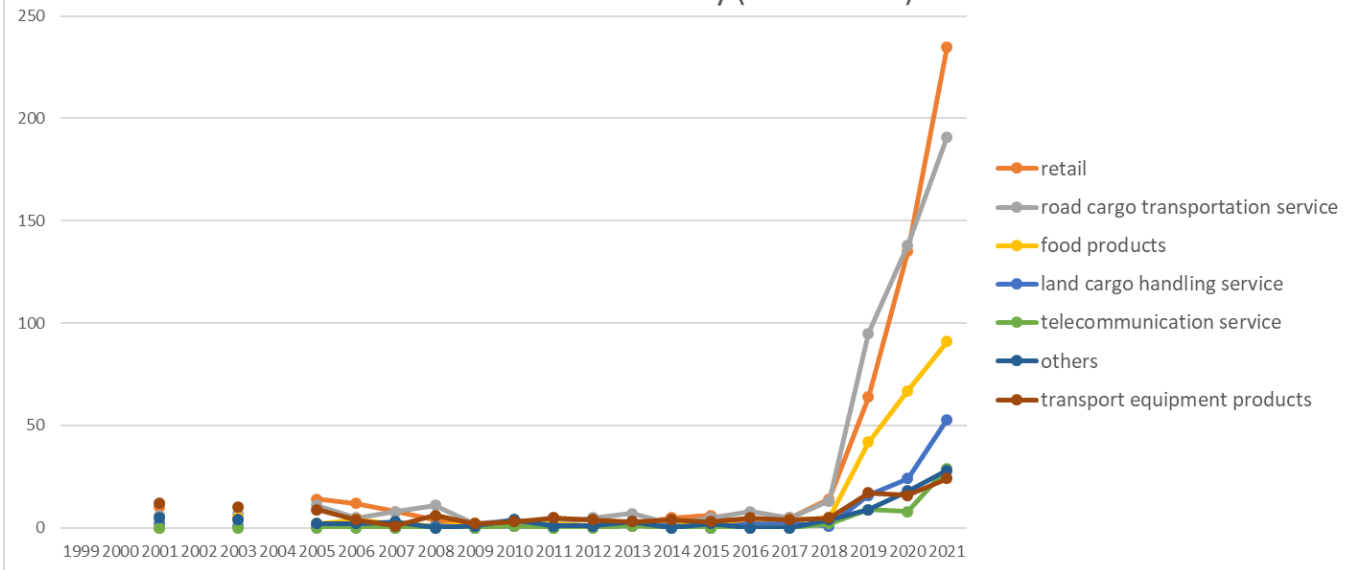


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 361 human power cranes (1999-2021)



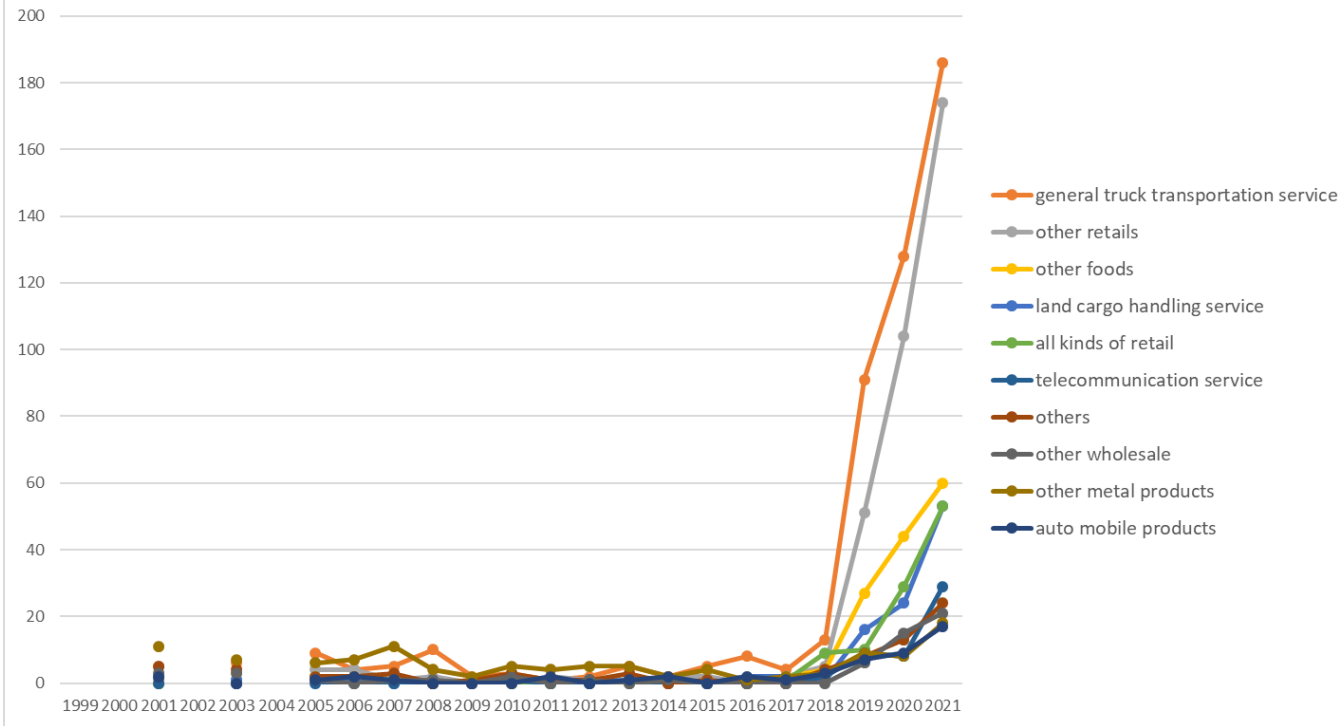
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 361 human power cranes in Large industry (1999-2021)

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. 361 human power cranes 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. 361 human power cranes in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 361 human power cranes 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			13		8		16	14	9	6	3	5	7	6	2	8	6	2	7	15	86	162	281	656	commerce	
01	manufacturing			46		45		39	42	38	39	22	27	32	26	19	23	24	25	27	24	123	130	210	961	manufacturing	
04	transportation service			8		8		11	7	9	14	4	6	4	6	8	5	7	9	5	14	96	142	194	557	transportation service	
05	cargo handling service			3		1		1	1		2		3	1	2	2	1		2	2	1	16	24	54	116	cargo handling service	
03	construction			27		35		23	22	28	27	17	14	33	15	22	26	12	15	18	13	20	30	30	427	construction	
17	others			5		4		2	2	3		1	4	1	1	3		3			4	10	19	29	91	others	
11	telecommunication service												1			1						2	9	8	29	50	telecommunication service
13	health and hygiene service					2			1		1						1	1	1		1	14	19	28	69	health and hygiene service	

14	hotel/restaurant/amusement service			3		2		2	1	2	1	2	2	1	1	1	1	1	1	2	13	12	15	63	hotel/restaurant/amusement service	
15	commercial cleaning and livestock process			2		1		2	2	2	4	5	1	1	1	1	2	1	1	1	2	9	17	14	69	commercial cleaning and livestock process
07	livestock/fishery			4		3		1		2		1	2		1	1	2		1	3	2	6	7	8	44	livestock/fishery
06	agriculture					1		1	1	2		2		2	1	1	1	1	1	3	2	3	8	31	agriculture	
12	education/research service					1		2					1						1			1		4	10	education/research service
09	financial business/advertisement					1					1				1						1		2	6	financial business/advertisement	
10	movie/play service			1																			1	2	movie/play service	
02	mining			1		3		1	2						3	2		3		1					16	mining
16	public office																									public office
	total			113		115		100	94	97	95	57	66	82	60	65	72	56	62	64	84	406	573	907	3,168	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 361 human power cranes 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			10		4		14	12	8	4	1	2	5	4	2	5	6	2	5	14	64	135	235	532	retail	
0403	road cargo transportation service			6		7		11	5	8	11	2	4	2	5	7	2	5	8	5	13	95	138	191	525	road cargo transportation service	
0101	food products					5		2	4	2	1	2	1	2	1	1	2	1	2	4	5	42	67	91	235	food products	
0501	land cargo handling service			2		1		1	1		1		1		1	1	1		2	2	1	16	24	53	108	land cargo handling service	
1101	telecommunication service												1			1						2	9	8	29	50	telecommunication service
1702	others			5		4		2	2	3		1	4	1	1	3		2			4	9	18	28	87	others	
0115	transport equipment products			12		10		9	4	1	6	2	3	5	4	3	4	3	5	4	5	17	16	24	137	transport equipment	

																									products	
0804	other commerce							1		1	2	1	2	1		2			2	1	16	9	24	62	other commerce	
0112	metal products			11		7		8	9	12	4	2	6	4	7	5	3	5	1	5	3	13	12	21	138	metal products
0801	wholesale			3		4		2		1	1		2		1		1				6	18	21	60	wholesale	
0117	other manufacturing			11		8		6	11	5	10	5	6	8	7		5	4	10	6	4	21	13	18	158	other manufacturing
1301	medical treatment service																				10	13	18	41	medical treatment service	
0108	chemical products			3		2		1	4	6	3	2	3	2		1	1	3	2	3	2	9	6	17	70	chemical products
1501	commercial cleaning and livestock process			2		1		2	2	2	4	5	1	1	1	1	2	1	1	1	2	9	17	14	69	commercial cleaning and livestock process
0302	construction work			13		15		9	6	8	8	4	4	12	5	7	5	5	4	6	5	8	15	11	150	construction work
0113	machine products			4		5		3	5	5	3	7	2	5	4	6	4		1	2	1	4	3	11	75	machine products
0301	civil engineering work			3		10			8	3	8	7	2	12	4	6	6	2	3	8		3	4	10	99	civil engineering work
1302	social welfare facility					1			1		1						1	1	1		1	4	6	10	27	social welfare facility
0303	other construction works			11		10		14	8	17	11	6	8	9	6	9	15	5	8	4	8	9	11	9	178	other construction works
0114	electrical equipment products							1	1		4		1		1			2				6	5	9	30	electrical equipment products
1401	hotel			1				1	1												3	3	7	16	hotel	
0701	livestock			3		1		1		1		1	1		1	1	1			1	1	6	7	6	32	livestock
1402	restaurant					1						1						1			2	6	6	6	23	restaurant
0106	pulp/paper processing products							1			1	1	1	1			1			1	1	2		5	15	pulp/paper processing products
0601	agriculture									1					1	1						2	2	5	12	agriculture
0109	sand and stone products			1		4		2	1	3	4		2	1		2	1	2	1			3	2	4	33	sand and stone products
1201	education/research service					1		2						1					1			1		4	10	education/research

																									service
0107	printing/bookbinding							1							1		1	2		4	9				printing/bookbinding
0602	forestry				1	1	1	1		2		2			1	1	1	1	3		1	3	19		forestry
1403	other amusement service			2		1		1		2	1	1	2	1	1	1		1			4	3	2	24	other amusement service
0104	wood products					1		1	1	1	1				1			1	1	1	2	12		wood products	
0111	nonferrous metal making					1		1	1	1					1			1	1		2	2	12		nonferrous metal making
0702	fishery			1		2				1					1		1	2	1			2	12		fishery
0404	other transportation service																				1	2	2	5	other transportation service
0110	steel making			3		2		2	1		1		1	3	1	1		3	1		2	1	1	23	steel making
0402	road passenger transport service			2		1			1	1		2	2		1	1	3	2	1			1	1	19	road passenger transport service
0502	harbor transportation service			1						1		2	1	1	1								1	8	harbor transportation service
0103	fiber products									1	1							1			1		1	5	fiber products
1701	dispatch service																1				1	1	1	4	dispatch service
0901	financial business									1													1	3	financial business
0902	advertisement and mediator					1															1		1	3	advertisement and mediator
0803	haircut/beauty salon									1													1	2	haircut/beauty salon
1001	movie/play service			1																			1	2	movie/play service
0202	quarrying					3			1	2						3	2		3		1			15	quarrying
0401	railroad/water transportation/airline service								1		3										1		1	8	railroad/water transportation/airline service

0102	textile products			1					1									1								1	5	textile products
0105	furniture									1																1	2	furniture
0116	electric/gas/water service								1																	1	2	electric/gas/water service
0201	coal mining			1																							1	coal mining
1303	other health and hygiene service										1																1	other health and hygiene service
0203	other mining																											other mining
1601	public office																											public office
	total			113		115		100	94	97	95	57	66	82	60	65	72	56	62	64	84	406	573	907	3,168	total		

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 361 human power cranes 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
040301	general truck transportation service			5		6		9	4	5	10	2	3	1	2	5	2	5	8	4	13	91	128	186	489	general truck transportation service
080209	other retails			1		1		4	4	1	2			2	1		2	2		2	5	51	104	174	356	other retails
010109	other foods					3		2	1	1				1		1	1			2	4	27	44	60	147	other foods
050101	land cargo handling service			2		1		1	1		1		1		1	1	1		2	2	1	16	24	53	108	land cargo handling service
080201	all kinds of retail							2	2	1		1								1	9	10	29	53	108	all kinds of retail
110101	telecommunication service												1			1					2	9	8	29	50	telecommunication service
170209	others			5		4		2	2	3		1	3	1	1	3		1			4	8	13	24	75	others
080109	other wholesale			3		3		1		1	1		2		1		1					6	15	21	55	other wholesale
011209	other metal products			11		7		6	7	11	4	2	5	4	5	5	2	4	1	2	3	9	8	18	114	other metal products
011502	auto mobile products			2				1	2	1				2		1	2		2	1	3	7	9	17	50	auto mobile products
080401	warehousing								1			1		2	1		1				1	16	6	17	46	warehousing
130101	hospital																					8	12	17	37	hospital

010104	bread/cake products					2			1	1	1	1		1	1				7	6	16	39	bread/cake products			
150101	building maintenance service								1		1	2	1			1	1		1	1	6	14	11	41	building maintenance service	
130201	social welfare facility					1			1		1					1	1	1		1	4	6	10	27	social welfare facility	
011703	cleaning																		2	8	5	10	25	cleaning		
030209	other building construction work			4		5		4	1	3	3		3	1	1	3	2	2		2	2	2	4	9	51	other building construction work
011301	machine products			4		3		3	3	5	3	6	1	5	3	6	4		1	2	1	3	3	8	64	machine products
010805	plastics products			1		2			1	2	1	2	1	1		1	1	1	2	1		6	1	7	31	plastics products
010102	fishery products																		1		4	4	7	16	fishery products	
080409	other commerce									1	1	1				1			2			3	7	16	other commerce	
140101	hotel			1				1	1												3	3	7	16	hotel	
070101	livestock			3		1		1		1		1	1		1	1			1	1	6	7	6	32	livestock	
140201	general restaurant					1						1						1		1	4	6	6	20	general restaurant	
030302	machinery/apparatus setting work			9		8		9	4	9	9	3	3	5	3	3	6	4	5	2	6	5	3	5	101	machinery/apparatus setting work
011701	auto mobile servicing			7		6		4	7	4	9	3	1	6	5		4	2	7	5	2	7	2	5	86	auto mobile servicing
011509	other transport equipment products			1									1	2				1			1	2	5	13	other transport equipment products	
060101	agriculture								1					1	1						2	2	5	12	agriculture	
030309	other construction works			2		2		2	4	6	2	2	3	4	2	4	8	1	2	2	1	4	7	4	62	other construction works
080202	auto mobile retail			5		1		4	2	4	2		2	2	1	1	2	3	1		1		4	35	auto mobile retail	
010101	meat/dairy products								2			1						1			1	4	10	4	23	meat/dairy products
040302	specific truck transportation service					1		1		1	1				1						2	4	4	15	specific truck transportation service	
170201	security service												1					1			1	4	4	11	security service	
120109	other education/research service					1		2					1					1			1		4	10	other education/research service	

011709	other manufacturing			3		1		1		1	1	1	1	1	4	1				2			3	6	3	27	other manufacturing		
030199	other civil engineering work					3			1	2	2	2		3	2	1	3	1		1			1	3		25	other civil engineering work		
011409	other electrical equipment							1	1		3									1			4	3	3	16	other electrical equipment		
010801	non organic or organic chemical products			1						1	2		1						1		1	1	1	1	3	13	non organic or organic chemical products		
060201	lumbering					1			1				1		2					1	2		1	3		12	lumbering		
011403	electronics equipment and telecommunications apparatus										1		1										1	2	3	9	electronics equipment and telecommunications apparatus		
010103	agricultural food products																			1				3	3	7	agricultural food products		
010602	paper processing products															1				1		1			3	6	paper processing products		
010899	other chemical products																					1		2	3	6	other chemical products		
011402	electrical appliance																						1		3	4	electrical appliance		
030105	bridge construction work			1		1			2	1		2										1		1	3	2	14	bridge construction work	
010901	cement products					1		2		2	1		1	1		2							1		2	13	cement products		
030106	road construction work					1						3		1		1	1						1		2	10	road construction work		
070201	fishery			1		2				1			1									1	1			2	10	fishery	
011305	other precision machine products					2			2			1	1											1		2	9	other precision machine products	
010803	pharmaceuticals							1	1														1	1	1	2	7	pharmaceuticals	
010409	other lumber and wood products															1		1					1	1		2	6	other lumber and wood products	
010701	printing service									1													1	1		2	5	printing service	
011204	metal plating products							1								1							1			2	5	metal plating products	
040409	other transportation service																							1	2	2	5	other transportation service	
010609	other pulp/paper processing products																							1	1		2	4	other pulp/paper processing products

010709	other printing and bookbinding																				1	2	3	other printing and bookbinding	
080203	furniture/fittings retail																					1	2	3	furniture/fittings retail
011501	ship building			9	10	8	2		6	2	2	1	4	2	2	2	2	3	2	9	4	1	71	ship building	
030104	railway construction work			1	3				1		1	7	1	3	2		2	4		1		1	27	railway construction work	
030203	building facility construction work				2	1		1	1	2		3	1	1	2		1	2	1		7	1	26	building facility construction work	
080204	fuel retail			4	2	4	4	2				1	2	1	1		1	1		1	1	1	26	fuel retail	
011203	metal press products					1	2	1			1		1		1	1		2		4	4	1	19	metal press products	
030202	wooden house construction work			1	3		2	1	1			1		2		1	2			3		1	18	wooden house construction work	
140301	golf course			2	1	1		1	1	1	2	1	1	1			1			3	1	1	18	golf course	
010909	other sand and stone products							1	3		1				1	2	1			1	1	1	12	other sand and stone products	
150102	industrial waste management service			1		1	1			3										2	1	1	10	industrial waste management service	
030102	tunnel construction work						2		1		1		1	1				1				1	8	tunnel construction work	
040201	taxi service			2									1	1	3							1	8	taxi service	
030110	water supply/sewage construction work			1			2		2			1										1	7	water supply/sewage construction work	
040303	cargo/ light automobile transportation service												1					1			4	1	7	cargo/ light automobile transportation service	
150105	livestock process service			1		1			1			1	1							1		1	7	livestock process service	
011001	steel/iron/rolling products			1		1						1	1								1	1	6	steel/iron/rolling products	
011102	nonferrous metals casting products					1						1						1	1		1	1	6	nonferrous metals casting products	
010309	other fiber products								1	1							1			1		1	5	other fiber products	

010905	other ceramic products			1		1			1											1	1	5	other ceramic products		
080205	newspaper retail														1		1		1		1	4	newspaper retail		
170101	dispatch service														1				1	1	1	4	dispatch service		
011109	other nonferrous metal products							1							1						1	3	other nonferrous metal products		
011503	railway vehicle products															1				1	1	3	railway vehicle products		
090209	other advertisement and mediator					1														1		3	other advertisement and mediator		
130109	other medical treatment service																			1	1	3	other medical treatment service		
010807	leather products			1																	1	2	leather products		
050201	general harbor transportation service													1							1	2	general harbor transportation service		
080302	beauty salon							1													1	2	beauty salon		
150109	other cleaning and livestock process service									1											1	2	other cleaning and livestock process service		
010106	soft drinks																				1	1	soft drinks		
010808	painting products																				1	1	painting products		
011302	measuring instruments																				1	1	measuring instruments		
090101	banking/trust business																				1	1	banking/trust business		
100109	other movie/play service																				1	1	other movie/play service		
140302	park and amusement park																				1	1	park and amusement park		
030201	steel frame/reinforced concrete house construction work			8		5		4	3	3	3	2	1	7	3	1	1	2	1	2	2	3	4	55	steel frame/reinforced concrete house construction work
011702	machine repair			1		1		1	4			1	1	1	2		1		3	1		3		20	machine repair
011002	casting products			2		2		1	1		1		2				3				2			15	casting products

030301	electricity/telecommunication work							3		2		1	2		1	2	1		1		1		1		15	electricity/telecommunication work
040309	other land cargo transportation service			1				1	1	2			1	1	2	1						2	2		14	other land cargo transportation service
150103	other waste disposal service					1				2	1					1	1			1		2		9	other waste disposal service	
020202	gravel digging					2			1	1					1	1		1						7	gravel digging	
040202	bus service					1			1	1		2	1					1						7	bus service	
060209	other forestry							1		1		1				1	1	1		1				7	other forestry	
010806	rubber products							1	1	2			1									1		6	rubber products	
030109	land consolidation civil engineering work					2					1						1	1	1					6	land consolidation civil engineering work	
040101	railroad service								1		3			1								1		6	railroad service	
010601	pulp/paper							1			1	1	1	1										5	pulp/paper	
020201	quarrying									1						2	1		1					5	quarrying	
080101	all kinds of wholesale					1		1														3		5	all kinds of wholesale	
140309	other amusement service									1						1					1	2		5	other amusement service	
040209	other passenger transport service												1					2				1		4	other passenger transport service	
010401	lumbering					1		1		1														3	lumbering	
010402	plywood								1		1											1		3	plywood	
010902	glass products					2																1		3	glass products	
011101	nonferrous metals/rolling products					1				1												1		3	nonferrous metals/rolling products	
020209	other quarrying					1											1		1					3	other quarrying	
050202	port cargo handling service					1						1		1										3	port cargo handling service	
050209	other harbor transportation service										1		1	1										3	other harbor transportation service	

130309	other health and hygiene service					1																	1	other health and hygiene service		
170202	information processing service																							1	1	information processing service
010201	silk-reeling																								silk-reeling	
010202	cotton-spinning																								cotton-spinning	
010301	over/under wear																								over/under wear	
010502	metal furniture																								metal furniture	
010503	fittings																								fittings	
010903	pottery products																								pottery products	
010904	fire resisting products																								fire resisting products	
011201	western tableware/cutting tool products																								western tableware/cutting tool products	
011202	screw products																								screw products	
011303	optical instruments																								optical instruments	
011602	city gas service																								city gas service	
011603	city water service																								city water service	
011704	tobacco products																								tobacco products	
020109	other coal mining																								other coal mining	
020301	metal mining																								metal mining	
020302	petroleum mining																								petroleum mining	
020309	other mining																								other mining	
030101	hydroelectric plant construction work																								hydroelectric plant construction work	
030108	sand collapse prevention civil engineering work																								sand collapse prevention civil engineering work	
	port/seaside construction																								port/seaside construction	

