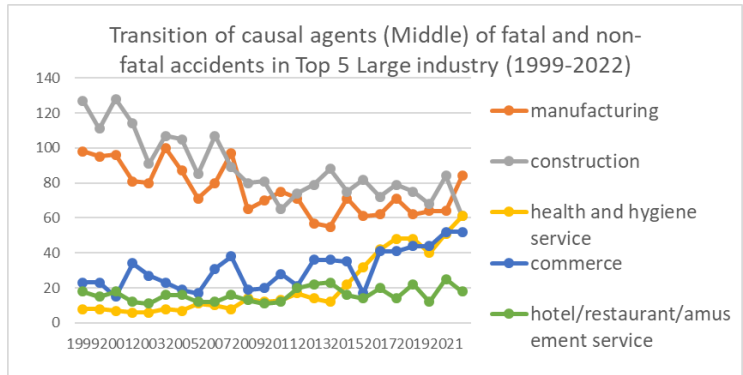
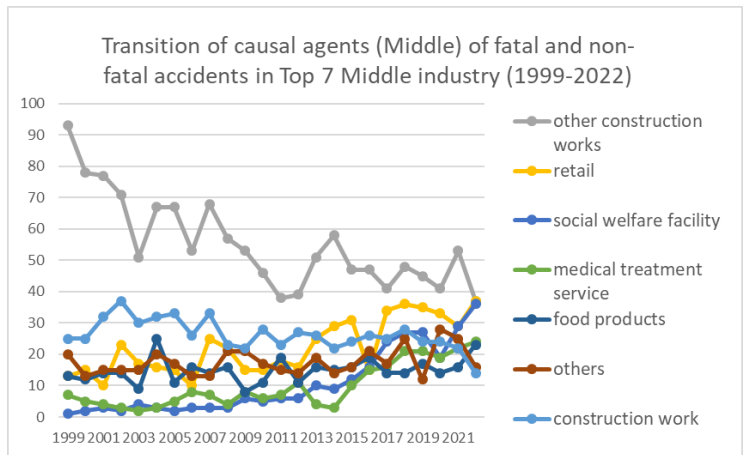


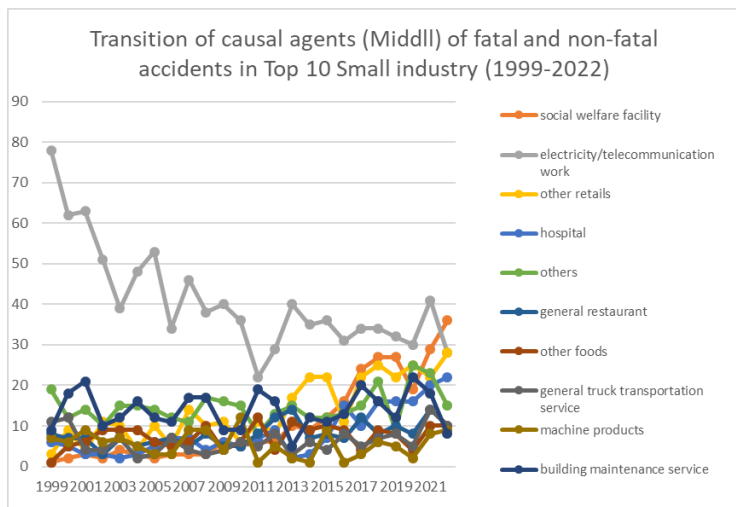
Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 35 electric equipment (1999-2022)



Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 35 electric equipment in Large industry (1999-2022)



Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 35 electric equipment in Middle Industry (1999-2022)



Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 35 electric equipment in Middle Industry (1999-2022)

Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 35 electric equipment in Large industry (1999-2022)

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	2022	total	Large industry
01	manufacturing	98	95	96	81	80	100	87	71	80	97	65	70	75	71	57	55	71	61	62	71	62	64	64	84	1,817	manufacturing
03	construction	127	111	128	114	91	107	105	85	107	89	80	81	65	74	79	88	75	82	72	79	75	68	84	61	2,127	construction
13	health and hygiene service	8	8	7	6	6	8	7	11	10	8	14	12	13	17	14	12	22	32	42	48	48	40	51	61	505	health and hygiene service
08	commerce	23	23	15	34	27	23	19	17	31	38	19	20	28	21	36	36	35	17	41	41	44	44	52	52	736	commerce
14	hotel/restaurant/amusement service	18	15	18	12	11	16	16	12	12	16	13	11	12	20	22	23	16	14	20	14	22	12	25	18	388	hotel/restaurant/amusement service
04	transportation service	16	20	7	11	11	5	11	10	10	10	5	11	10	12	7	11	6	13	7	16	10	8	16	18	261	transportation service
17	others	20	13	16	16	15	22	18	13	13	21	22	17	16	14	20	15	17	21	17	26	12	28	25	17	434	others
15	commercial cleaning and livestock process	14	19	26	14	15	24	12	14	22	18	10	12	22	17	7	16	14	16	22	23	16	25	20	14	412	commercial cleaning and livestock process
05	cargo handling service		2	1	1			2	1	1	1	1	1	1	2		2		1	1	2		1	2	5	28	cargo handling service
09	financial business/advertisement	8	6	9	1	4	3	4	6	1	7	4	2	4	4	3	4	2	3	6	5	2	2	7	2	99	financial business/advertisement
12	education/research service	1	1	3	1	1			2	3		1	1	1	1	2	5	1	2		4	5	3	4	2	44	education/research service
11	telecommunication service	1	1			1	1	3			4	1	3	1		3	2	2	7		3	1	2	4	2	42	telecommunication service
07	livestock/fishery	2	5		1	3	2		2	1	2	2	2		3	1	1	1	1	1	1	4	1	1	1	38	livestock/fishery
06	agriculture	1		1		2		1	2		1	1	2	2	3			1	6	1	1					25	agriculture
02	mining		4	1			4	1		1			1		2		1			1				1		17	mining
10	movie/play service		1			1			1	1						1					1			1		7	movie/play service
16	public office							1			1						1						1			4	public office
	total	337	324	328	292	268	315	287	247	293	313	238	246	250	261	252	272	263	276	293	335	301	299	357	337	6,984	total

Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 35 electric equipment in Middle industry (1999-2022)

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	2022	total	Middle industry
	other construction																										other construction

0303	other construction works	93	78	77	71	51	67	67	53	68	57	53	46	38	39	51	58	47	47	41	48	45	41	53	37	1,326	works
0802	retail	13	15	10	23	17	16	15	10	25	22	15	15	18	16	25	29	31	15	34	36	35	33	29	37	534	retail
1302	social welfare facility	1	2	3	2	4	3	2	3	3	3	6	5	6	6	10	9	12	16	24	27	27	19	29	36	258	social welfare facility
1301	medical treatment service	7	5	4	3	2	3	5	8	7	4	8	6	7	11	4	3	10	15	16	21	21	19	22	24	235	medical treatment service
0101	food products	13	12	14	14	9	25	11	16	14	16	8	11	19	11	16	15	16	19	14	14	17	14	16	23	357	food products
1702	others	20	13	15	15	15	20	17	13	13	21	21	17	15	14	19	14	16	21	17	25	12	28	25	16	422	others
0302	construction work	25	25	32	37	30	32	33	26	33	23	22	28	23	27	26	22	24	26	25	28	24	24	22	14	631	construction work
1501	commercial cleaning and livestock process	14	19	26	14	15	24	12	14	22	18	10	12	22	17	7	16	14	16	22	23	16	25	20	14	412	commercial cleaning and livestock process
0403	road cargo transportation service	11	13	5	5	9	2	3	7	5	4	4	8	6	9	3	6	4	9	5	7	8	5	14	12	164	road cargo transportation service
1402	restaurant	8	8	7	4	7	5	6	7	5	9	5	5	10	14	15	10	8	7	13	8	12	9	15	11	208	restaurant
0114	electrical equipment products	13	14	6	11	12	11	14	10	9	16	12	4	10	8	5	8	9	10	12	9	8	8	9	10	238	electrical equipment products
0301	civil engineering work	9	8	19	6	10	8	5	6	6	9	5	7	4	8	2	8	4	9	6	3	6	3	9	10	170	civil engineering work
0113	machine products	8	10	11	7	10	6	4	5	10	13	5	12	1	7	2	2	11	2	5	7	6	3	9	10	166	machine products
0115	transport equipment products	7	8	12	8	5	10	7	7	10	14	3	5	10	6	4	8	4	5	4	2	7	4	4	9	163	transport equipment products
0117	other manufacturing	8	13	6	5	6	10	8	3	10	9	6	4	10	6	4	5	7	5	2	7	8	7	5	7	161	other manufacturing
0804	other commerce	5	5	1	5	6	2	1	5	1	5	2		6	4	5	4	1		4	1	3	4	7	7	84	other commerce
0801	wholesale	5	2	3	5	3	3	1	2	5	9	1	4	3	1	6	2	2	1	1	3	6	6	9	6	89	wholesale
1403	other amusement service	5	4	4	4	1	3	5	3	4	2	4	3	2	2	5	7	3	4	2	2	5	1	2	6	83	other amusement service
0401	railroad/water transportation/airline service	3	3	2	6	2	1	7	2	5	4	1	3		2	3	4	2	3	2	5	1	2	2	6	71	railroad/water transportation/airline service
0106	pulp/paper processing products		1	3	2	3	1	3	1	1			1	1		6	1	1	1		2	1		2	6	37	pulp/paper processing products
0501	land cargo handling service		1	1				1	1	1	1	1			2		2		1		2		1	1	5	21	land cargo handling service
0112	metal products	11	9	11	6	9	14	6	9	11	11	8	5	10	7	6	4	11	6	8	10	5	7	4	4	192	metal products
0108	chemical products	6	4	7	6	8	5	3	1	3	3	8	5	1	9	6	4	1	5	10	5	4	10	6	4	124	chemical products
0116	electric/gas/water service	4	6	9	4	7	1	7	4	3	5	1	6	3	5	2	1	1	1	1	4	1	6	2	2	86	electric/gas/water service
0109	sand and stone products	10	5	4	3	3	3	7	5		3	3	5	3	3	4	1	1	2	1	3		1	1	2	73	sand and stone products
0110	steel making	4	3	3	2	4	4	4	3	2	1	1	4	5		2	4	2	2		4		1	1	2	58	steel making
1201	education/research service	1	1	3	1	1			2	3		1	1	1	1	2	5	1	2		4	5	3	4	2	44	education/research service
1101	telecommunication service	1	1			1	1	3			4	1	3	1		3	2	2	7		3	1	2	4	2	42	telecommunication service
0803	haircut/beauty salon		1	1	1	1	2	2			2	1	1	1			1	1	1	2	1		1	7	2	29	haircut/beauty salon
0102	textile products	3	1	2		1	3	4	1	2		2	1		1						1				2	24	textile products

0107	printing/bookbinding	1		1	1			1	1			2	1				1		2	1	1		1	2	16	printing/bookbinding	
1401	hotel	5	3	7	4	3	8	5	2	3	5	4	3		4	2	6	5	3	5	4	5	2	8	1	97	hotel
0901	financial business	7	5	7	1	4	3	3	6	1	5	4	1	4	3	3	4	2	3	5	4	2	2	6	1	86	financial business
0104	wood products	4	2		5	1	2	5	1	3	3	1	2	1	6		1	1	3	3		1		2	1	48	wood products
0701	livestock	2	1		1	2	2		2	1	1	2	2		2	1	1		1		1	3	1	1	1	28	livestock
0902	advertisement and mediator	1	1	2				1			2		1		1					1	1			1	1	13	advertisement and mediator
1303	other health and hygiene service		1		1		2				1		1						1	2			2		1	12	other health and hygiene service
1701	dispatch service			1	1		2	1				1		1		1	1			1				1		12	dispatch service
0103	fiber products	4	1	3	4	1	1	2	2	1	2	2	1	1	1		1	3			1	1	1			33	fiber products
0111	nonferrous metal making	2	3	4	2	1	3	1		1	1	3	3					1			1	2	2			30	nonferrous metal making
0402	road passenger transport service	2	4				1	1			2			3	1	1	1		1		4	1	1			23	road passenger transport service
0601	agriculture			1		1			1			1	2	2	3			1	4	1	1					18	agriculture
0202	quarrying		3	1			3	1		1			1		1		1			1				1		14	quarrying
0105	furniture		3		1		1		2						1		1							2		11	furniture
0702	fishery		4			1					1				1			1		1		1				10	fishery
0502	harbor transportation service		1		1			1					1	1						1				1		7	harbor transportation service
0602	forestry	1				1		1	1		1								2							7	forestry
1001	movie/play service		1			1			1	1							1				1			1		7	movie/play service
1601	public office							1			1						1						1			4	public office
0203	other mining		1				1								1											3	other mining
0404	other transportation service						1		1						1											3	other transportation service
0201	coal mining																										coal mining
	total	337	324	328	292	268	315	287	247	293	313	238	246	250	261	252	272	263	276	293	335	301	299	357	337	6,984	total

Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 35 electric equipment in Middle industry (1999-2022)

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	2022	total	Small industry
130201	social welfare facility	1	2	3	2	4	3	2	3	3	3	6	5	6	6	10	9	12	16	24	27	27	19	29	36	258	social welfare facility
030301	electricity/telecommunication work	78	62	63	51	39	48	53	34	46	38	40	36	22	29	40	35	36	31	34	34	32	30	41	28	980	electricity/telecommunication work
080209	other retails	3	9	4	11	10	4	10	5	14	10	11	6	11	8	17	22	22	11	22	25	22	25	22	28	332	other retails
130101	hospital	6	5	3	3	2	3	5	7	7	4	6	5	7	9	2	3	7	15	10	16	16	16	20	22	199	hospital
170209	others	19	12	14	10	15	15	14	12	11	17	16	15	8	13	15	12	12	13	15	21	9	25	23	15	351	others
140201	general restaurant	8	7	7	3	7	5	6	7	5	8	5	5	8	12	14	7	8	7	12	8	10	8	14	10	191	general restaurant
010109	other foods	1	5	6	9	9	9	6	5	6	10	4	6	12	4	11	9	10	9	4	9	8	4	10	10	176	other foods
040301	general truck transportation service	11	12	4	4	7	2	3	7	4	3	4	6	5	8	3	6	4	8	5	7	8	5	14	10	150	general truck transportation service
011301	machine products	7	6	9	6	7	5	3	3	9	9	4	12	1	5	2	1	9	1	3	6	5	2	8	9	132	machine products
150101	building maintenance service	9	18	21	10	12	16	12	11	17	17	9	9	19	16	5	12	11	13	20	16	12	22	18	8	333	building maintenance service

030309	other construction works	7	12	8	12	4	11	8	12	14	12	5	5	11	5	7	13	10	9	6	8	9	7	6	7	208	other construction works
080201	all kinds of retail	5	3	3	9	6	9	5	5	6	9	2	8	7	7	7	5	7	3	7	6	11	4	4	7	145	all kinds of retail
011502	auto mobile products	2	2	6	1	2	5	3	2	3	4	1	3	3	3	2	6	1	3	2		1	4	2	7	68	auto mobile products
080109	other wholesale	4	1	3	5	3	3	1	2	5	8	1	4	3	1	5	2	2	1	1	3	6	6	9	6	85	other wholesale
080409	other commerce	5	5	1	5	5	2	1	4	1	4	2		5	4	4	3	1		3		1	4	5	6	71	other commerce
010104	bread/cake products	5	3	2	2		2	2	4	4	2		3	2	3	2	2	1	3	4	1	5	6	3	6	67	bread/cake products
040101	railroad service	3	3	2	5	2	1	7	2	5	4	1	3		1	3	4	2	3	2	4	1	1	2	6	67	railroad service
030201	steel frame/reinforced concrete house construction work	8	13	11	9	13	8	13	9	12	7	6	9	6	10	3	9	8	5	10	8	8	8	6	5	204	steel frame/reinforced concrete house construction work
030203	building facility construction work	11	5	4	12	7	6	2	6	5	5	7	6	7	6	9	4		4	7	7	4	6	4	5	139	building facility construction work
011409	other electrical equipment	5	6	5	5	6	5	6	5	6	11	2	3	7	3	1	5	5	2	7	3	4	1	6	5	114	other electrical equipment
050101	land cargo handling service		1	1				1	1	1	1	1			2		2		1		2		1	1	5	21	land cargo handling service
010602	paper processing products			2	2	2		2					1			1	1	1	1						5	18	paper processing products
140309	other amusement service	5	2	3			2	4	3	4		3	1	1	1	3	3	3	3	1	1	2			4	49	other amusement service
010101	meat/dairy products	2	2	2			8	2	3	1	1	1		1	2		2	4	1	2	2	2		2	4	44	meat/dairy products
030106	road construction work	1		4		1	2	1		2		2		3		4		1	1	2	1		3	4	32	road construction work	
150102	industrial waste management service	1				1	2		2	2	1	1	1	1		4	1		1	4	3	1	1	4	32	industrial waste management service	
030209	other building construction work	4	6	11	11	8	10	11	9	11	7	5	9	8	10	10	8	9	10	4	11	9	5	9	3	198	other building construction work
011209	other metal products	11	9	7	6	6	12	5	7	9	9	6	5	10	4	6	3	11	4	8	9	5	4	4	3	163	other metal products
011709	other manufacturing	4	3	3	2	1	5	3	1	5	4	1		6	3		1	5	1		1			3	3	55	other manufacturing
011401	heavy electrical equipment	4	3		1	2	1	6	1	1	1	4		2	3	2	3	4	3	3		1	2	2	3	52	heavy electrical equipment
010103	agricultural food products			1	1						1			1	1	1			2	1	2			1	3	15	agricultural food products
030302	machinery/apparatus setting work	8	4	6	8	8	8	6	7	8	7	8	5	5	5	4	10	1	7	1	6	4	4	6	2	138	machinery/apparatus setting work
011501	ship building	5	5	5	4	2	3	4	3	7	8	2	2	7	3	2	1	2	2	2		4			2	75	ship building
011601	electric utility service	4	4	6	3	7	1	6	3	3	3	1	5	3	5	2		1	1	1	4	1	5	2	2	73	electric utility service
030199	other civil engineering work	1	5	10	5	3	3	1	4	2	2	1	2	2	2		3	3	3	3	1	1	3	4	2	66	other civil engineering work
011403	electronics equipment and telecommunications apparatus	4	4		4	2	4	2	3	1	1	4			2	2			3	2	4	2	4	1	2	51	electronics equipment and telecommunications apparatus
010805	plastics products	4	3	1	4	5	1	1	1	1	1	3	2	1	3		1		1	2	2	2	5	1	2	47	plastics products
011703	cleaning	2	3		1	2	3	2		1	2	2	3	2	1	3	3			1	3	4	6	1	2	47	cleaning
110101	telecommunication service	1	1			1	1	3			4	1	3	1		3	2	2	7		3	1	2	4	2	42	telecommunication service
120109	other education/research service	1	1	3	1	1			2	2		1	1	1	1	2	5		2		4	2	3	4	2	39	other education/research service
011701	auto mobile servicing	1	4	1		2	1	2		1	1	2	1	2	1				2	1	1	2			2	27	auto mobile servicing
130102	general clinic	1										1			1	1		2		5	1	3	2	1	2	20	general clinic
010701	printing service	1		1					1			1	1							1			1	2	9	printing service	
030102	tunnel construction work								1	1			2											1	2	7	tunnel construction work
140101	hotel	5	3	7	4	3	8	5	2	3	5	4	3		4	2	6	5	3	5	4	5	2	8	1	97	hotel

030202	wooden house construction work	2	1	6	5	2	8	7	2	5	4	4	4	2	1	4	1	7	7	4	2	3	5	3	1	90	wooden house construction work
170201	security service	1	1	1	5		5	2	1	2	4	5	2	7	1	4	2	4	8	2	4	3	3	2	1	70	security service
090103	insurance business	4	5	4	1	3	3	2	5		2	3	1	2	3	1	2	2	3	4	4	2	1	4	1	62	insurance business
011001	steel/iron/rolling products	2	1	1	1	3	4	1	1	1	1		2	4		1	2	1	1		3		1	1	1	33	steel/iron/rolling products
010901	cement products	3	1	3	2	1	1	3	3			1	3			2	1	1	1				1	1	1	29	cement products
070101	livestock	2	1		1	2	2		2	1	1	2	2		2	1	1		1		1	3	1	1	1	28	livestock
150109	other cleaning and livestock process service	2		3	4		4		1	2				1		1		1	2		3	1	1		1	27	other cleaning and livestock process service
140301	golf course		1	1	4	1	1	1			1	1	1		1	1	2				1	2	1	2	1	23	golf course
010801	non organic or organic chemical products	2	1	1	1	1	1	1			1		2		1	1	2		1	2		1	1	1	1	22	non organic or organic chemical products
010409	other lumber and wood products	1	1		3		1	2		2	2		1		3			1	1	1				1	1	21	other lumber and wood products
010899	other chemical products			3	1	1	1	1		1		3			1	4		1	1			1		1	1	21	other chemical products
080205	newspaper retail	3			1		2			1	2	1					2		3	1		2		1	19	newspaper retail	
011002	casting products		1	1		1		3	1	1		1	2			1	2	1	1		1				1	18	casting products
011305	other precision machine products		2	2	1	2	1		1					2			1	1	2	1				1	1	18	other precision machine products
080204	fuel retail	2	2			1	1			1	1	1	1				2			2	2		1	1	18	fuel retail	
080302	beauty salon		1	1			1	2			2	1	1	1			1		1				4	1	18	beauty salon	
140209	other restaurants		1		1						1			2	2	1	3			1		2	1	1	1	17	other restaurants
030110	water supply/sewage construction work	3		2	1	1	1	3						1					1	1		1			1	16	water supply/sewage construction work
011203	metal press products			1		1	1	1	1		1				3				2		1		1		1	14	metal press products
080401	warehousing					1			1		1			1		1	1			1	1	2		2	1	13	warehousing
170101	dispatch service			1	1		2	1			1			1		1	1	1			1				1	12	dispatch service
080301	haircut				1	1	1										1		2				1	3	1	11	haircut
140302	park and amusement park		1								1		1		1	2		1	1		1				1	11	park and amusement park
010902	glass products					1	2	1						1	1	1					2				1	10	glass products
010601	pulp/paper						1		1							4					2				1	9	pulp/paper
010209	other textile products	2				1	1	1	1			1													1	8	other textile products
040302	specific truck transportation service		1	1		1				1			1						1						1	8	specific truck transportation service
130301	bathroom		1		1		1				1								1	1			1		1	8	bathroom
090201	traveling service		1					1			1				1						1			1	1	7	traveling service
040309	other land cargo transportation service				1	1					1		1	1											1	6	other land cargo transportation service
010202	cotton-spinning						1	1					1												1	4	cotton-spinning
030101	hydroelectric plant construction work		1	1							1														1	4	hydroelectric plant construction work
150105	livestock process service						1							1											1	3	livestock process service
010102	fishery products	2	2	3	1		2	1	2	2	2	2	2	3	1	1	1	1	3			2	4			37	fishery products
011702	machine repair	1	3	2	2	1	1	1	2	2	2	1			1	1	1	2	2		2	2	1			30	machine repair

060201	lumbering	1				1		1	1		1							1								6	lumbering			
090209	other advertisement and mediator	1		2							1		1						1								6	other advertisement and mediator		
030107	river civil engineering work	2					1				1										1						5	river civil engineering work		
030111	port/seaside construction work		1			1												2						1			5	port/seaside construction work		
050202	port cargo handling service				1							1	1						1					1			5	port cargo handling service		
010203	weaving			1						1		1									1						4	weaving		
010702	bookbinding										1						1		1		1						4	bookbinding		
010809	chemical fertilizer products								1			1			1				1								4	chemical fertilizer products		
010903	pottery products	1	1												1				1								4	pottery products		
040103	airline service				1										1					1			1				4	airline service		
100101	movie production and delivery service		1						1							1								1			4	movie production and delivery service		
130309	other health and hygiene service						1												1				1				4	other health and hygiene service		
160101	public office							1			1													1			4	public office		
010709	other printing and bookbinding				1			1																		1		3	other printing and bookbinding	
011201	western tableware/cutting tool products			1																							3	western tableware/cutting tool products		
011202	screw products			1							1	1															3	screw products		
011303	optical instruments		1			1																					3	optical instruments		
011602	city gas service			1				1	1																		3	city gas service		
040409	other transportation service						1		1																		3	other transportation service		
080101	all kinds of wholesale	1	1																								3	all kinds of wholesale		
090109	other financial business			1								1														1		3	other financial business	
100109	other movie/play service						1				1															1		3	other movie/play service	
120102	software service											1														1		3	software service	
010503	fittings				1						1																2	fittings		
010509	other furniture						1																				2	other furniture		
010802	chemical fiber																										2	chemical fiber		
011304	watch products										1		1														2	watch products		
011704	tobacco products										1															1		2	tobacco products	
020309	other mining						1																				2	other mining		
030103	subway construction work		1																								2	subway construction work		
070209	other fishery										1																2	other fishery		
120101	auto mobile practical training																									2		2	auto mobile practical training	
010807	leather products																										1	leather products		
010808	painting products											1																1	painting products	
010905	other ceramic products	1																										1	other ceramic products	
020302	petroleum mining		1																									1	petroleum mining	
030108	sand collapse prevention civil engineering work																										1		1	sand collapse prevention civil engineering work

