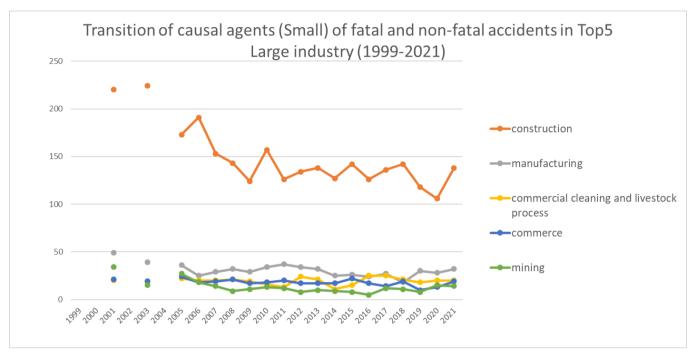
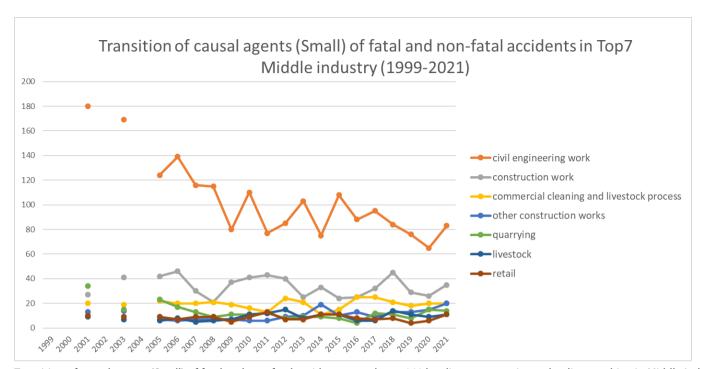
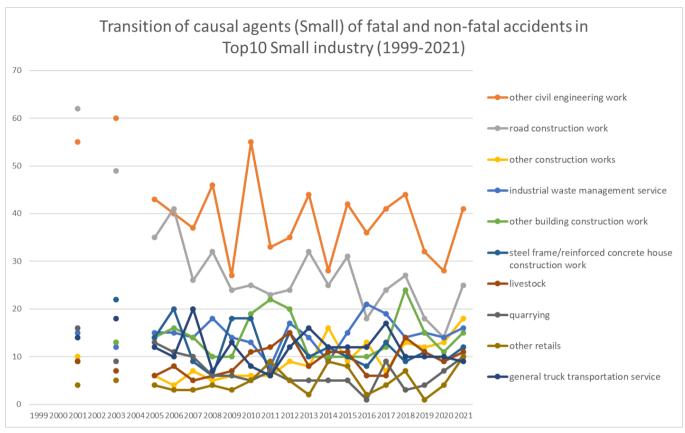
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 141 leveling, transporting or loading machine (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 141 leveling, transporting or loading machine in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 141 leveling, transporting or loading machine in Middle Industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 141 leveling, transporting or loading machine in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 141 leveling, transporting or loading machine 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
03	construction			220		224		173	191	153	143	124	157	126	134	138	127	142	126	136	142	118	106	138	2,818	construction
01	manufacturing			49		39		36	25	29	32	29	34	37	34	32	25	26	24	27	18	30	28	32	586	manufacturing
15	commercial cleaning and livestock process			20		19		22	20	20	21	19	16	13	24	21	11	15	25	25	21	18	20	20	370	commercial cleaning and
08	commerce			21		19		24	18	19	21	17	18	20	17	17	17	22	17	14	19	10	13	19	342	commerce
02	mining			34		15		27	18	14	9	11	13	12	8	10	9	8	5	12	11	8	15	14	253	mining
07	livestock/fishery			9		7		6	8	5	6	8	12	13	15	8	11	11	8	6	14	11	11	12	181	livestock/fishery
04	transportation service			17		18		14	15	29	12	19	8	8	16	18	12	15	15	17	13	13	11	10	280	transportation service

06	agriculture		10	11	10	13	10	13	12	13	12	15	12	8	6	13	8	15	14	6	10	211	agriculture
05	cargo handling service		4	5	5	5	2	8	2	4	2	4	3	1	5	4	9	3	1	4	9	80	cargo handling service
17	others		15	19	22	16	11	19	11	14	17	16	11	9	14	8	13	10	6	14	7	252	others
14	hotel/restaurant/amusement		7	4	3	7	11	10	7	4	7	2	7	4	6	4	1	6	3	9	3	105	hotel/restaurant/amusement
	service																ľ						service
12	education/research service			1	3		2	1	1			1	1		2	1		3	1		3	20	education/research service
11	telecommunication service												1								1	2	telecommunication service
13	health and hygiene service		1			11	1				1	1		1		1	1	2	1			21	health and hygiene service
16	public office				1												1					2	public office
09	financial																						financial
09	business/advertisement																						business/advertisement
10	movie/play service																						movie/play service
	total		407	381	346	347	306	295	260	293	268	287	279	235	272	251	270	277	234	237	278	5,523	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 141 leveling, transporting or loading machine 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
0301	civil engineering work			180		169		124	139	116	115	80	110	77	85	103	75	108	88	95	84	76	65	83	1,972	civil engineering work
0302	construction work			27		41		42	46	30	21	37	41	43	40	25	33	24	25	32	45	29	26	35	642	construction work
1501	commercial cleaning and livestock			20		19		22	20	20	21	19	16	13	24	21	11	15	25	25	21	18	20	20	370	commercial cleaning
- 11	process			20		19			20	20	21	13			24	21			25	25	21		20	20		and livestock process
0303	other construction works			13		14		7	6	7	7	7	6	6	9	10	19	10	13	9	13	13	15	20	204	other construction
0303	other construction works																								204	works
0202	quarrying			34		15		23	17	13	9	11	11	12	8	9	9	8	4	12	11	8	15	14	243	quarrying
0701	livestock			9		7		6	8	5	6	7	11	12	15	8	11	11	6	6	14	11	9	11	173	livestock
0802	retail			10		9		9	7	9	9	5	9	13	7	7	11	11	8	7	8	4	6	11	160	retail
																										sand and stone

0109	sand and stone products	12	11	13	7	9	7	5	12	13	12	13	6	8	9	6	1	7	4	10	165	products
0403	road cargo transportation service	17	18	12	15	25	11	18	8	7	15	16	12	13	14	17	12	12	10	9	261	road cargo transportation service
0117	other manufacturing	12	14	12	9	7	15	6	5	13	9	8	10	10	8	11	10	7	10	9	185	other manufacturing
0502	harbor transportation service	2	2	4	3	2	6	2	4	1	2	3	1	3	3	6	3	1	4	8	60	harbor transportation service
1702	others	15	19	22	16	11	19	11	13	17	15	11	9	14	8	13	10	6	14	7	250	others
0601	agriculture	2	1	1	3	6	2	4	8	3	6	6	4	5	6	6	9	6	5	7	90	agriculture
0804	other commerce	4	6	9	7	7	7	6	5	3	6	6	4	5	6	6	8	3	5	6	109	other commerce
0108	chemical products	9	3	1		1	2	6	2	3	2		3	3		2		4		5	46	chemical products
0104	wood products	2	1	1	2	5	3	1	2	1	2	2	2	1	3		1	3	3	4	39	wood products
0602	forestry	8	10	9	10	4	11	8	5	9	9	6	4	1	7	2	6	8	1	3	121	forestry
1403	other amusement service	6	3	3	6	9	8	6	2	6	2	6	4	5	4		5	2	6	3	86	other amusement service
1201	education/research service		1	3		2	1	1			1	1		2	1		3	1		3	20	education/research service
0801	wholesale	7	4	6	4	3	5	6	4	4	4	4	2	6	3	1	3	3	2	2	73	wholesale
0110	steel making	2	3	3	1		2	3	2	1	4	2	1	2	3	2	2	1	3	1	38	steel making
0112	metal products	4	1	3	1	1	2	1	4	2	1	2				2	1		2	1	28	metal products
0113	machine products	2	3	1	1				1	2	2	4	1			2	1	3		1	24	machine products
0501	land cargo handling service	2	3	1	2		2			1	2			2	1	3				1	20	land cargo handling service
0702	fishery							1	1	1					2				2	1	8	fishery
0401	railroad/water transportation/airline service							1		1							1		1	1		railroad/water transportation/airline service
																						electric/gas/water

0116	electric/gas/water service					1															1	2	service
1101	telecommunication service												1								1	2	telecommunication service
0101	food products				2	1	3	1	4	2	1					1	1		3	1		20	food products
1401	hotel			1		1	2	2		2	1		1		1		1	1	1	3		17	hotel
1301	medical treatment service		1			11											1					13	medical treatment service
0115	transport equipment products		2	1		2	2		2	1					1					1		12	transport equipment products
0106	pulp/paper processing products		2				1		1	2		2		1						2		11	pulp/paper processing products
0111	nonferrous metal making		2	2							1		1		1				2	1		10	nonferrous metal making
0203	other mining				4	1	1			2			1			1						10	other mining
0402	road passenger transport service				2		1	1				1	1		1	1			1			9	road passenger transport service
1302	social welfare facility						1				1	1		1		1		2	1			8	social welfare facility
0114	electrical equipment products									1				1			1	2				5	electrical equipment products
0404	other transportation service						3						1		1							5	other transportation service
1402	restaurant		1						1													2	restaurant
1601	public office				1												1					2	public office
1701	dispatch service									1		1										2	dispatch service
0105	furniture																			1		1	furniture
0102	textile products																						textile products
0103	fiber products																						fiber products

0107	printing/bookbinding																						printing/bookbinding
0201	coal mining																						coal mining
0803	haircut/beauty salon																						haircut/beauty salon
0901	financial business																						financial business
0902	advertisement and mediator																						advertisement and mediator
1001	movie/play service																						movie/play service
1303	other health and hygiene service																						other health and hygiene service
	total	4	407	381	346	347	306	295	260	293	268	287	279	235	272	251	270	277	234	237	278	5,523	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 141 leveling, transporting or loading machine 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
030199	other civil engineering work			55		60		43	40	37	46	27	55	33	35	44	28	42	36	41	44	32	28	41	767	other civil engineering work
030106	road construction work			62		49		35	41	26	32	24	25	23	24	32	25	31	18	24	27	18	14	25	555	road construction work
030309	other construction works			10		13		6	4	7	5	6	6	6	9	8	16	9	13	7	13	12	13	18	181	other construction works
150102	industrial waste management service			15		12		15	15	14	18	14	13	8	17	14	9	15	21	19	14	15	14	16	278	industrial waste management service
030209	other building construction work			9		13		14	16	14	10	10	19	22	20	10	10	10	10	12	24	15	11	15	264	other building construction work
	steel frame/reinforced concrete house construction work			9		22		14	20	9	6	18	18	6	15	10	12	10	8	13	9	11	9	12		steel frame/reinforced concrete house construction work
070101	livestock			9		7		6	8	5	6	7	11	12	15	8	11	11	6	6	14	11	9	11	173	livestock
020201	quarrying			16		9		13	11	10	6	6	5	7	5	5	5	5	1	9	3	4	7	10	137	quarrying
080209	other retails			4		5		4	3	3	4	3	5	9	5	2	9	8	2	4	7	1	4	10	92	other retails

040301	general truck transportation service	14	4	18	12	10	20	7	13	8	6	12	16	12	12	12	17	10	10	10	9	228	general truck transportation service
060101	agriculture	2		1	1	3	6	2	4	8	3	6	6	4	5	6	6	9	6	5	7	90	agriculture
030109	land consolidation civil engineering work	18	8	21	14	19	14	15	7	4	6	4	6	9	11	6	10	2	8	6	6	186	land consolidation civil engineering work
030202	wooden house construction work	6		6	11	8	7	3	8	1	13	4	3	8	2	5	4	10	3	4	6	112	wooden house construction work
030110	water supply/sewage construction work	29	9	23	12	20	15	9	13	8	9	11	5	7	10	11	9	6	5	7	5	214	water supply/sewage construction work
080409	other commerce	4		6	9	7	7	7	6	5	3	6	6	4	4	6	6	8	3	5	5	107	other commerce
010901	cement products	9		5	7	4	2	5	2	10	5	7	8	3	6	4	6	1	6	1	5	96	cement products
011702	machine repair	4		7	4	2	2	7	2	1	8	4	2	6	5	2	5	6	4	3	5	79	machine repair
170201	security service	9		10	17	10	9	10	8	7	15	8	7	5	7	5	8	4	3	7	4	153	security service
020202	gravel digging	14	4	5	9	6	3	2	4	5	4	3	4	4	3	2	3	8	3	8	4	94	gravel digging
010909	other sand and stone products	3		6	6	3	7	2	3	2	7	5	4	3	2	5			1	3	4	66	other sand and stone products
011709	other manufacturing	4		3	4	4	1	2	1	1	1	2	4	1	4	4	2	1	1	3	4	47	other manufacturing
010804	petroleum/coal products	5		1			1		1	1	1	1		1	2				1		4	19	petroleum/coal products
050201	general harbor transportation service			2	1	1		2		1			1			1	3	1			4	17	general harbor transportation service
030107	river civil engineering work	6		6	13	12	9	4	5	9	3	5	8	2	5	6	4	2	7	7	3	116	river civil engineering work
170209	others	6		9	5	6	2	9	3	5	2	7	4	4	7	3	5	6	3	7	3	96	others
140301	golf course	5		1	3	6	8	5	6	2	5	2	5	4	3	2		4	2	4	3	70	golf course
050202	port cargo handling service	2			2	2	2	4	2	3		2	2		3	2	2	2	1	4	3	38	port cargo handling service
060201	lumbering	6		9	5	8	1	6	7	4	6	9	5	2		2	2	5	2	1	2	82	lumbering
080109	other wholesale	5		4	5	3	3	5	6	4	4	4	4	2	6	3	1	3	3	2	2	69	other wholesale
150103	other waste disposal service	4		3	5	1	2	2	4	2	2	5	4	1		3	5	7	2	4	2	58	other waste disposal service

ther lumber and wood roducts umbering uto mobile practical training uel retail and collapse prevention civil ngineering work ther forestry ther metal products		1 1 6 5		1 1 4		1 2	1	3	1 2	1		1	1		1		2		1	2	2	2	20	other lumber and wood
uto mobile practical training uel retail and collapse prevention civil ngineering work ther forestry				1 4		1 2	1	2	2															products
uel retail and collapse prevention civil ngineering work ther forestry				1		2	1				2		1	2	1	1	1			1	1	2	19	lumbering
and collapse prevention civil ngineering work ther forestry				4					1				1			2			2			2	11	auto mobile practical training
ngineering work ther forestry		5				2	3	5	5	1	3	2	2	2	2	1	5	3	1	3	2	1	53	fuel retail
·				3		3	3	8	4		4	1	3	2	1	3	3	1	1	4		1	50	sand collapse prevention civ
ther metal products		2		1		4	2	3	5	1	1	3		1	2	1	5		1	6		1	39	other forestry
		4		1		3	1	1	2	1	4	2	1	2				2	1		2	1	28	other metal products
nachine products		2		3		1	1				1	2	2	3	1			2	1	3		1	23	machine products
ther cleaning and livestock		1		3		1	4	2	1	1		1	2	2	1		1			1	1	1	23	other cleaning and livestock process service
and cargo handling service		2		3		1	2		2			1	2			2	1	3				1	20	land cargo handling service
teel/iron/rolling products				1		2			2	2	1		4	1	1	1		2			1	1	19	steel/iron/rolling products
ort/seaside construction		1				2		2	2		1			2	1		2	2			1	1	17	port/seaside construction work
lectricity/telecommunication ork		2				1	1			1				2	1			2		1	1	1	13	electricity/telecommunicatio
hemical fertilizer products		2		2						2	1	1			1					1		1	11	chemical fertilizer products
nachinery/apparatus setting /ork		1		1			1		2						2	1					1	1	10	machinery/apparatus setting work
ailway construction work						1			1		1	1	1	1					1	1		1	9	railway construction work
ther education/research						1		2		1				1			1		1	1		1	9	other education/research service
uilding maintenance service				1		1		2	7	ī—	1	ī		ī						i —	ī	ī	1	i
terono le	el/iron/rolling products rt/seaside construction ork ctricity/telecommunication ork emical fertilizer products cchinery/apparatus setting ork lway construction work ner education/research rvice	el/iron/rolling products rt/seaside construction rk ctricity/telecommunication rk emical fertilizer products chinery/apparatus setting rk lway construction work ner education/research vice	el/iron/rolling products rt/seaside construction ork ctricity/telecommunication ork emical fertilizer products 2 chinery/apparatus setting ork lway construction work ner education/research vice	el/iron/rolling products rt/seaside construction rtk ctricity/telecommunication rtk emical fertilizer products 2 chinery/apparatus setting rtk lway construction work ner education/research vice	ad cargo handling service 2 3 el/iron/rolling products 1 rt/seaside construction or 2 ctricity/telecommunication or 2 emical fertilizer products 2 2 chinery/apparatus setting or 1 lway construction work	ad cargo handling service el/iron/rolling products rt/seaside construction ork ctricity/telecommunication ork emical fertilizer products chinery/apparatus setting ork lway construction work ner education/research vice	and cargo handling service 2 3 1 el/iron/rolling products 1 2 rt/seaside construction or	and cargo handling service 2 3 1 2 el/iron/rolling products 1 2 rt/seaside construction ork ctricity/telecommunication ork emical fertilizer products 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ad cargo handling service 2 3 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	el/iron/rolling products el/iron/rolling products 1 2 2 2 rt/seaside construction ork emical fertilizer products 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ad cargo handling service 2 3 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	de cargo handling service 2 3 1 2 2 1 1 2 2 1 1 1 2 2 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 1	d cargo handling service		d cargo handling service	d cargo handling service						Continery/apparatus setting Continery/apparatus setting Continery/apparatus setting Continery/apparatus setting Continery/apparatus setting Continery Continery		Company Comp

070201	fishery								1	1	1					2				2	1	8	fishery
040101	railroad service								1		1							1		1	1	5	railroad service
050209	other harbor transportation				1						1			1			1				1	5	other harbor transportation
	service																Ĺ				ļ.		service
080401	warehousing														1						1	2	warehousing
110101	telecommunication service												1								1	2	telecommunication service
010903	pottery products																				1	1	pottery products
011601	electric utility service																				1	1	electric utility service
011701	auto mobile servicing		4	4	4	3	4	6	3	3	3	3	2	3	1	2	4	3	2	4		58	auto mobile servicing
030105	bridge construction work		2	2		1	3	1	3	1	1	1	3	1	4	1	3			1		28	bridge construction work
030102	tunnel construction work			3	1	1	2	1	1	1		1		1	2	5		1		1		21	tunnel construction work
011009	other steel products		1	2	1				1	1	1		1		1	3		2	1	2		17	other steel products
140101	hotel			1		1	2	2		2	1		1		1		1	1	1	3		17	hotel
040302	specific truck transportation		2			2	1	3	1			2			1	2			1			15	specific truck transportation
0.10302	service						<u> </u>		Ĺ						<u> </u>				Ĺ				service
040309	other land cargo					2	3	1	4		1	1						2	1			15	other land cargo
	transportation service																						transportation service
130101	hospital		1			11											1					13	hospital
020209	other quarrying		4	1	1			1	1	1	1					1			1			12	other quarrying
140309	other amusement service			2			1	1			1		1		2	1		1		2		12	other amusement service
080202	auto mobile retail				1	1	1		1		1		3		1	1						10	auto mobile retail
010109	other foods				1		2	1	1	1	1					1	1					9	other foods
010899	other chemical products				1			1	1		1	1			1		2		1			9	other chemical products
020309	other mining				3	1	1			2			1			1						9	other mining
010101	meat/dairy products					1			3	1									2	1		8	meat/dairy products
010601	pulp/paper						1		1	2		1		1						2		8	pulp/paper
130201	social welfare facility						1				1	1		1		1		2	1			8	social welfare facility

030101 hydroelectric plant construction work 011101 nonferrous metals/rolling products 011509 other transport equipment products			1		1		2				1							1		1		7	hydroelectric plant construction work
011101 nonferrous metals/rolling products 011509 other transport equipment			1																				construction work
011101 products Other transport equipment			1				II																
other transport equipment			'	II.	114															_			nonferrous metals/rolling
011509		7	II											I						2		6	products
011509																							other transport equipment
			1					2		2											1	6	products
040202 bus service						1							1	1		1	1						bus service
														- -									
040409 other transportation service	•							3						1		1						5	other transportation service
non organic or organic 010801									1	1					1					1		4	non organic or organic
chemical products																							chemical products
other nonferrous metal																							other nonferrous metal
011109 products			1		I																	4	products
011502 auto mobile products			1		1		1				1											4	auto mobile products
140302 park and amusement park			1						2								1					4	park and amusement park
electronics equipment and																							electronics equipment and
011403 telecommunications																		1	2			3	telecommunications
apparatus																		-					apparatus
cargo/ light automobile 040303			1				1	1														3	cargo/ light automobile
transportation service			<u> </u>	<u> </u>																			transportation service
080101 all kinds of wholesale			2			1																3	all kinds of wholesale
080205 newspaper retail						2						1										3	newspaper retail
010103 agricultural food products						1														1		2	agricultural food products
010602 paper processing products			1										1									2	paper processing products
011002 casting products			1				1															2	casting products
011501 ship building							1									1						2	ship building
030103 subway construction work			1		1																	2	subway construction work
040201 taxi service						1			1													2	taxi service

040209	other passenger transport service						1									1		2	other passenger transport service
080201	all kinds of retail								1					1				2	all kinds of retail
140201	general restaurant		1					1										2	general restaurant
150105	livestock process service								1	1								2	livestock process service
160101	public office				1										1			2	public office
170101	dispatch service								1		1							2	dispatch service
010105	alcoholic drinks						1											1	alcoholic drinks
010501	wood furniture																1	1	wood furniture
010609	other pulp/paper processing products		1															1	other pulp/paper processing products
010805	plastics products		1															1	plastics products
010806	rubber products		1															1	rubber products
010808	painting products							1										1	painting products
010902	glass products									1								1	glass products
010905	other ceramic products											1						1	other ceramic products
011305	other precision machine products											1						1	other precision machine products
011401	heavy electrical equipment								1									1	heavy electrical equipment
011409	other electrical equipment												1					1	other electrical equipment
011602	city gas service					1												1	city gas service
011703	cleaning									1								1	cleaning
020301	metal mining				1													1	metal mining
080102	furniture/fittings wholesale					1												1	furniture/fittings wholesale
170202	information processing service								1									1	information processing service
010102	fishery products																		fishery products

	<u> </u>	 $\overline{}$					 i—	i	 	i	i	$\overline{}$	
010104	bread/cake products												bread/cake products
010106	soft drinks												soft drinks
010201	silk-reeling												silk-reeling
010202	cotton-spinning												cotton-spinning
010203	weaving												weaving
010204	dyeing												dyeing
010209	other textile products												other textile products
010301	over/under wear												over/under wear
010309	other fiber products												other fiber products
010402	plywood												plywood
010502	metal furniture												metal furniture
010503	fittings												fittings
010509	other furniture												other furniture
010701	printing service												printing service
010702	bookbinding												bookbinding
010709	other printing and bookbinding												other printing and bookbinding
010802	chemical fiber												chemical fiber
	pharmaceuticals												pharmaceuticals
	leather products												leather products
010904	fire resisting products												fire resisting products
011102	nonferrous metals casting												nonferrous metals casting
011201	western tableware/cutting tool products												western tableware/cutting tool products
011202	screw products												screw products

011203 metal press products											metal press products
011204 metal plating products											metal plating products
011302 measuring instruments											measuring instruments
011303 optical instruments											optical instruments
011304 watch products											watch products
011402 electrical appliance											electrical appliance
011503 railway vehicle products											railway vehicle products
011603 city water service											city water service
other electric/gas/water 011609 service											other electric/gas/water service
011704 tobacco products											tobacco products
020101 general coal mining											general coal mining
020109 other coal mining											other coal mining
020302 petroleum mining											petroleum mining
040102 water transportation service											water transportation service
040103 airline service											airline service
070209 other fishery											other fishery
080203 furniture/fittings retail											furniture/fittings retail
080301 haircut											haircut
080302 beauty salon											beauty salon
090101 banking/trust business											banking/trust business
090102 stock/commodity trade business											stock/commodity trade business
090103 insurance business											insurance business
090109 other financial business											other financial business
090201 traveling service											traveling service

090209	other advertisement and mediator																						other advertisement and mediator
100101	movie production and delivery service																						movie production and delivery service
100102	movie theatre																						movie theatre
100109	other movie/play service																						other movie/play service
120102	software service																						software service
130102	general clinic																						general clinic
130109	other medical treatment service																						other medical treatment service
130301	bathhouse																						bathhouse
130309	other health and hygiene service																						other health and hygiene service
140209	other restaurants																						other restaurants
150104	cremation service																						cremation service
	total		407	381	346	347	306	295	260	293	268	287	279	235	272	251	270	277	234	237	278	5,523	total

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

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