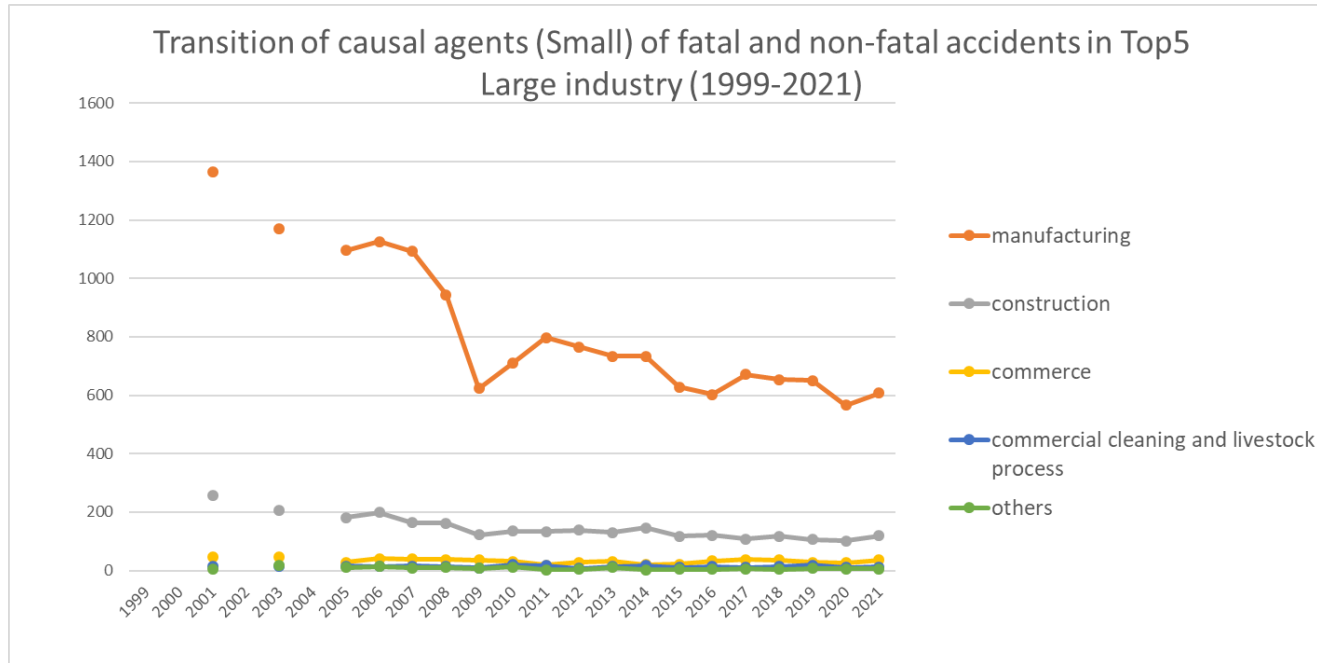
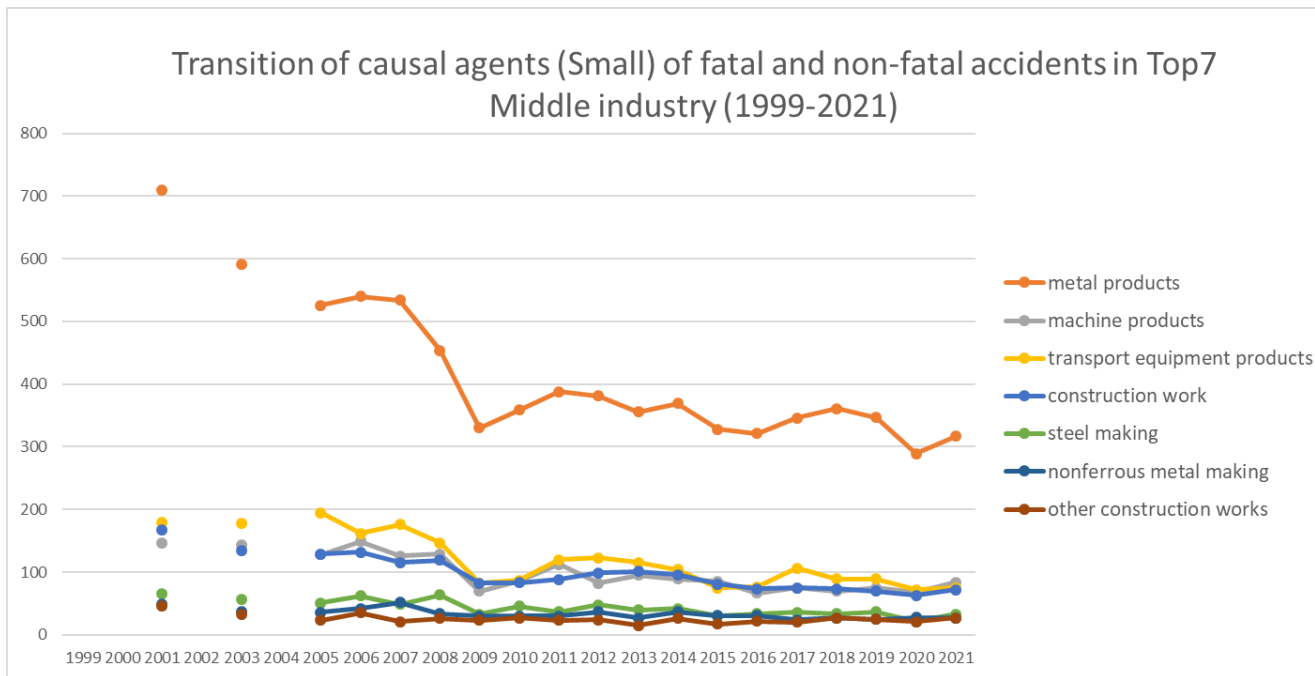


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 159 other metal manufacturing machines (1999-2021)

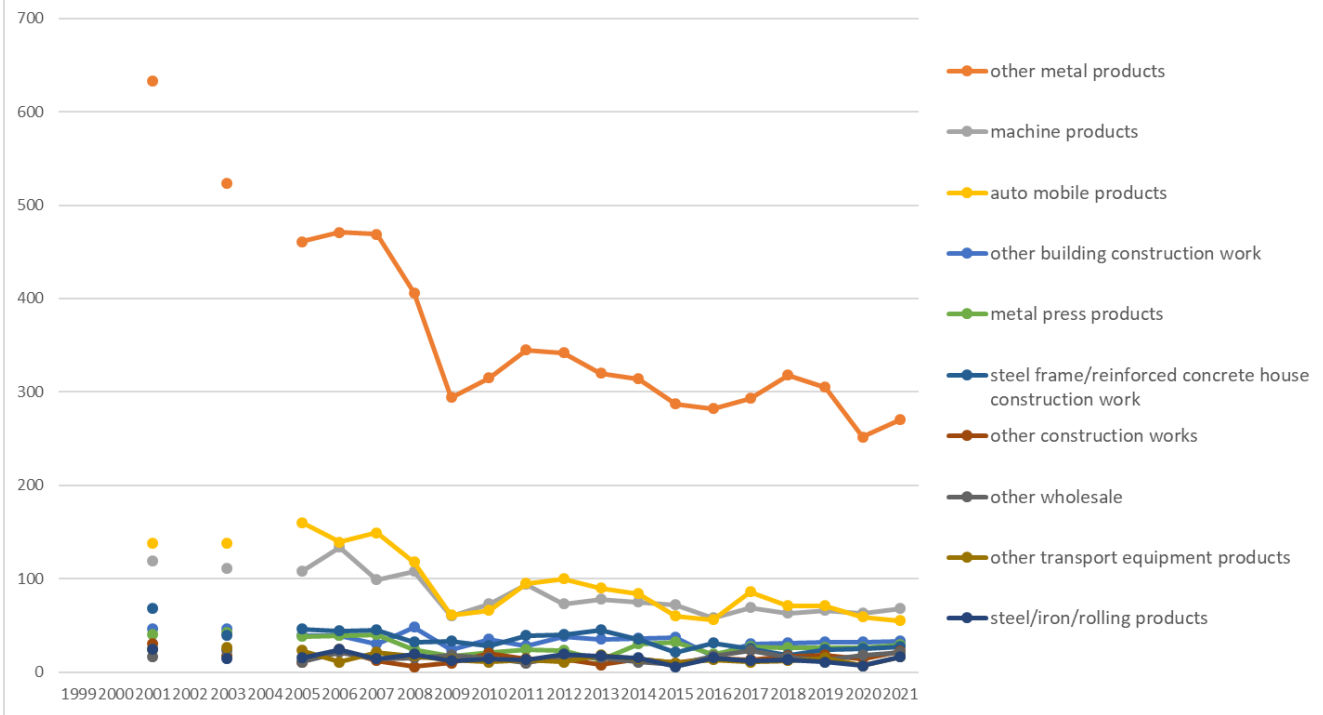


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 159 other metal manufacturing machines in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 159 other metal manufacturing machines 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. 159 other metal manufacturing machines in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 159 other metal manufacturing machines 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			1,366		1,170		1,096	1,126	1,093	944	623	709	798	766	734	734	628	603	672	653	650	566	607	15,538	manufacturing
03	construction			257		207		182	199	164	162	123	135	139	131	147	118	120	108	118	107	102	119	2,771	construction	
08	commerce			45		48		28	41	39	37	36	31	28	31	20	21	33	38	36	28	27	36	622	commerce	
15	commercial cleaning and livestock process			14		16		16	14	16	14	9	20	17	8	14	17	10	14	10	13	18	11	12	263	commercial cleaning and livestock process
17	others			5		19		11	14	9	11	8	12	3	4	11	3	4	4	6	4	7	6	6	147	others
04	transportation service			8		9		5	7	4	7	9	3	5	3	6	3	10	3	2	1	4	4	3	96	transportation service
06	agriculture			4		3		1	4	4	3	1	3				1	1			1			1	27	agriculture

05	cargo handling service			1		1		3	4	5	2	2	1		1			1	1	3				1	26	cargo handling service
07	livestock/fishery			1				4	2		1	1		3		2			2	3	1	3	1	24	livestock/fishery	
13	health and hygiene service			4					1		3	5	1	1	1		1	1		1		2	2	1	24	health and hygiene service
09	financial business/advertisement			1				1		2	1						1						1	7	financial business/advertisement	
14	hotel/restaurant/amusement service			5		3		4	2	2	5	1	5	1	5		2			1	2		2		40	hotel/restaurant/amusement service
12	education/research service			5		3		1		3		2	1	1	1		1	1		1			1		21	education/research service
02	mining								1		1	1				2	2						1		8	mining
16	public office					1		1										1							3	public office
10	movie/play service																									movie/play service
11	telecommunication service																									telecommunication service
	total			1,716		1,480		1,353	1,415	1,341	1,191	821	921	981	956	931	931	796	779	844	831	817	725	788	19,617	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 159 other metal manufacturing machines 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	
0112	metal products			709		592		526	540	534	454	330	359	388	381	356	369	328	321	346	361	347	289	317	7,847	metal products	
0113	machine products			146		143		128	149	126	129	70	85	112	82	95	89	85	67	75	70	75	68	84	1,878	machine products	
0115	transport equipment products			179		178		195	162	176	147	82	87	120	123	115	104	75	76	106	89	89	72	75	2,250	transport equipment products	
0302	construction work			167		134		129	132	115	119	82	83	88	99	101	96	81	73	75	73	70	63	72	1,852	construction work	
0110	steel making			65		56		51	62	49	64	33	46	37	48	40	42	30	34	36	34	37	21	33	818	steel making	
0111	nonferrous metal making			49		37		36	42	52	34	30	30	30	37	27	37	31	31	24	27	25	28	27	634	nonferrous metal making	
0303	other construction works			46		33		23	35	21	26	23	27	23	24	15	26	17	22	20	27	25	21	27	481	other construction works	
																											electrical equipment

0114	electrical equipment products			71		61			38	55	52	39	18	34	41	37	37	32	29	23	34	17	31	31	26	706	products
0801	wholesale			19		25			12	23	15	15	19	15	10	17	15	11	12	17	23	17	15	18	21	319	wholesale
0301	civil engineering work			44		40			30	32	28	17	18	25	22	16	15	25	20	25	13	18	12	18	20	438	civil engineering work
0117	other manufacturing			39		32			35	41	27	27	21	22	15	19	22	20	14	19	17	18	13	21	18	440	other manufacturing
0109	sand and stone products			12		17			15	14	16	11	11	8	6	12	9	8	5	5	13	8	5	10	13	198	sand and stone products
1501	commercial cleaning and livestock process			14		16			16	14	16	14	9	20	17	8	14	17	10	14	10	13	18	11	12	263	commercial cleaning and livestock process
0802	retail			23		19			11	16	18	18	12	14	6	7	15	8	7	14	14	14	10	6	11	243	retail
0108	chemical products			36		20			31	19	24	11	7	12	23	9	17	13	14	11	11	10	10	13	8	299	chemical products
1702	others			3		13			9	12	8	10	7	10	3	3	9	3	4	4	3	4	7	5	4	121	others
0804	other commerce			3		4			5	2	6	4	5	2	3	4	1	1	2	2	1	5	3	3	4	60	other commerce
0105	furniture			6		7			9	2	5	4	4	3	8	6	4	4	7	5	1	3	5	1	3	87	furniture
0403	road cargo transportation service			6		9			4	6	4	6	9	3	4	3	6	2	9	2	2	1	4	4	3	87	road cargo transportation service
1701	dispatch service			2		6			2	2	1	1	1	2		1	2				3			1	2	26	dispatch service
0106	pulp/paper processing products			7		5			5	6	2	3	2	4	3	1		3		3	2	2	3		1	52	pulp/paper processing products
0107	printing/bookbinding			8		6			3	4	5	2	3	3	1	2		2	1		1	4			1	46	printing/bookbinding
0501	land cargo handling service			1		1			2	3	4	2	1	1		1			1	1	2				1	21	land cargo handling service
0701	livestock			1					4	2		1	1		3		2				1	2		3	1	21	livestock
0102	textile products			4		2			1	2	2		1	1	1			1		1				3	1	20	textile products
0602	forestry			3		3				2	4	2	1	3											1	19	forestry
1302	social welfare facility			1						1		1	2	1				1	1		1		2	1	1	13	social welfare facility
0902	advertisement and mediator			1						1		1	1						1						1	6	advertisement and mediator

0101	food products			29		6		19	22	14	12	6	8	6	3	6	6	3	1	3	8	3	4		159	food products
0104	wood products			4		6		4	6	8	5	4	4	6	5	4	4	5	3	1	1	6	4		80	wood products
1201	education/research service			5		3		1		3		2	1	1	1		1	1		1			1		21	education/research service
1403	other amusement service					1		1			5	1	3	1	4		1			1	2		1		21	other amusement service
0103	fiber products			1		2					1	1	3	1		2		1	3	2		1	1		19	fiber products
1402	restaurant			4		2		3	2	2			2		1		1								17	restaurant
1301	medical treatment service			3							2	1		1	1								1		9	medical treatment service
0601	agriculture			1				1	2		1						1	1			1				8	agriculture
0116	electric/gas/water service			1						1	1				1						1				5	electric/gas/water service
0402	road passenger transport service			1				1			1						1	1							5	road passenger transport service
0502	harbor transportation service							1	1	1		1								1					5	harbor transportation service
0202	quarrying										1	1				1	1								4	quarrying
0203	other mining								1							1	1						1		4	other mining
0401	railroad/water transportation/airline service			1					1					1					1						4	railroad/water transportation/airline service
0702	fishery																		1	1	1				3	fishery
1601	public office					1		1										1							3	public office
1303	other health and hygiene service											2													2	other health and hygiene service
1401	hotel			1																			1		2	hotel
0901	financial business									1															1	financial business

	products																									products
011709	other manufacturing			25		13		17	28	16	11	13	16	8	13	15	11	9	11	6	8	9	12	11	252	other manufacturing
030203	building facility construction work			31		22		15	18	19	21	8	9	10	14	13	8	11	11	15	14	5	3	10	257	building facility construction work
011102	nonferrous metals casting products			24		12		10	17	25	13	9	16	9	15	9	18	11	11	10	9	11	10	10	249	nonferrous metals casting products
011109	other nonferrous metal products			15		14		23	13	19	12	15	11	12	16	10	11	13	14	9	14	5	5	10	241	other nonferrous metal products
011202	screw products			20		16		16	22	18	10	11	13	10	11	14	12	5	10	15	7	11	6	10	237	screw products
011009	other steel products			24		23		18	19	20	25	7	16	10	15	12	15	13	8	13	14	15	5	9	281	other steel products
011403	electronics equipment and telecommunications apparatus			15		18		9	10	15	10	6	12	13	9	7	10	4	3	9	3	9	10	9	181	electronics equipment and telecommunications apparatus
011002	casting products			17		19		18	19	15	20	14	16	14	14	11	12	11	11	11	7	11	9	8	257	casting products
030199	other civil engineering work			18		9		15	17	14	9	5	12	8	10	9	12	8	17	6	7	7	12	8	203	other civil engineering work
150102	industrial waste management service			6		9		9	9	13	8	5	8	10	3	6	8	7	9	8	8	12	8	8	154	industrial waste management service
011101	nonferrous metals/rolling products			10		11		3	12	8	9	6	3	9	6	8	8	7	6	5	4	9	13	7	144	nonferrous metals/rolling products
010901	cement products			4		9		7	6	8	5	4	2	5	8	3	4	4	5	9	4	3	6	7	103	cement products
010805	plastics products			15		15		16	9	16	5	3	10	12	5	14	9	9	7	9	6	7	5	5	177	plastics products
080209	other retails			11		15		9	13	13	13	9	10	4	7	11	6	4	11	9	10	6	4	5	170	other retails
011204	metal plating products			7		5		5	3	3	6	6	9	7	3	4	8	2	6	5	6	5	2	5	97	metal plating products
030110	water supply/sewage construction work			9		13		4	3	5	2	4	6	4	2	2	6	5	5	1	3	2	1	5	82	water supply/sewage construction work
011702	machine repair			2		6		6	4	2	4	3	2	1	3	2	5	2	1	3	2	1	1	5	55	machine repair
170209	others			3		12		9	12	7	9	7	8	3	2	9	3	4	4	3	4	7	5	4	115	others
030106	road construction work			7		6		4	6	3	2	5	2	4	3	1	2	6	1	2	4	2	2	4	66	road construction work

011501	ship building			15		11		10	9	6	9	4	9	11	11	6	6	3	5	9	4	3	6	3	140	ship building
030302	machinery/apparatus setting work			6		10		10	5	8	13	8	3	5	5	7	7	6	5	4	7	5	5	3	122	machinery/apparatus setting work
040301	general truck transportation service			6		9		4	5	3	6	7	2	4	3	5	2	8	1	2	1	4	4	3	79	general truck transportation service
011201	western tableware/cutting tool products			9		6		6	5	4	8	2	1	2	2	5	5	2	4	6	4		3	3	77	western tableware/cutting tool products
010909	other sand and stone products			6		6		4	6	5	1	5	3	1	3	4	3			4	4	1	3	3	62	other sand and stone products
080409	other commerce			3		4		5	2	6	4	4	1	3	4	1	1	2	1	1	5	3	3	3	56	other commerce
010903	pottery products			1		1		1			1					1	1						3	9	pottery products	
030202	wooden house construction work			22		27		29	31	21	18	17	11	11	7	8	17	12	14	5	10	9	3	2	274	wooden house construction work
011701	auto mobile servicing			12		13		10	5	7	11	5	4	6	3	5	4	2	6	8	8	3	8	2	122	auto mobile servicing
030301	electricity/telecommunication work			10		6		2	6	1	7	5	4	4	5		5	1	2	3	3	2	2	2	70	electricity/telecommunication work
010899	other chemical products			7		1		5	1	2	2	2		3	1			2		2	1		3	2	34	other chemical products
030109	land consolidation civil engineering work			6		4		4	3	2	2		1	2		2	3		1		1			2	33	land consolidation civil engineering work
080204	fuel retail			4		1		1	1	2		2	2			2		2	2	3	2	2		2	28	fuel retail
150109	other cleaning and livestock process service			2		2			2		2	1	2	4	1	3	1		1		3	1	1	2	28	other cleaning and livestock process service
170101	dispatch service			2		6		2	2	1	1	1	2		1	2				3			1	2	26	dispatch service
080202	auto mobile retail			2		1			1		2	1	1	1		1			1		1	2	2	2	18	auto mobile retail
080201	all kinds of retail			3		2		1	1	3	2		1					1		1				2	17	all kinds of retail
011402	electrical appliance			8		8		10	9	7	8	2	3	5	8	8	4	5	4	4	1	6	2	1	103	electrical appliance
150103	other waste disposal service			4		4		6	3	2	3	2	10	1	3	3	8	3	2	2	1	4	2	1	64	other waste disposal service
011401	heavy electrical equipment			5		2		1	5	3	4	1	2		1	3	4	9	5	4	2	2	2	1	56	heavy electrical equipment

010806	rubber products			9		4		6	6	4	1	1	2	4	1	2	2	1	3		2	1	4	1	54	rubber products
010701	printing service			7		5		1	4	3	1	2	3	1	2					1	3			1	34	printing service
010509	other furniture			2				2	2	2				3	4	2	2	4	1	1	2	1	1	1	30	other furniture
011503	railway vehicle products			2		3		2	3		3	4	1	1	1	1		2	2		2			1	28	railway vehicle products
010502	metal furniture			2		2		3		2	2	1	2	4			1	2	4			1		1	27	metal furniture
011303	optical instruments					1		6	1	1		3		4			2					1	1	1	21	optical instruments
050101	land cargo handling service			1		1		2	3	4	2	1	1		1			1	1	2				1	21	land cargo handling service
070101	livestock			1				4	2		1	1		3		2				1	2		3	1	21	livestock
150101	building maintenance service			2		1		1		1	1	1		2	1	2			2		1	1		1	17	building maintenance service
010503	fittings			1		1		2			1	2	1	1		1	1					3		1	15	fittings
010209	other textile products			2		2			1	2		1		1					1				3	1	14	other textile products
060209	other forestry			3		2			1	3	1	1	2											1	14	other forestry
130201	social welfare facility			1				1		1	2	1				1	1		1		2	1	1	1	13	social welfare facility
030104	railway construction work			1		1		1	1	1			1							2			2	1	11	railway construction work
090209	other advertisement and mediator							1		1	1							1						1	5	other advertisement and mediator
080401	warehousing										1	1							1					1	4	warehousing
010601	pulp/paper																			1				1	2	pulp/paper
010109	other foods			13		1		8	13	7	8	3	4	4	1	4	3			2	4	2	2		79	other foods
010409	other lumber and wood products			4		6		2	2	5	4	3	3	4	3	4	3	3	3	1	1	3	3		57	other lumber and wood products
010602	paper processing products			5		3		4	5	2	3	2	3	2			3		3		1	2			38	paper processing products
011302	measuring instruments			3		3			2	4	3	2	2	2	1	3	2	2	3	1	2	2			37	measuring instruments
010102	fishery products			5				4	3	2	1	1	1	2	1	1	1	1							23	fishery products
010104	bread/cake products			6		3		3	3	2	2		1			1	1				1				23	bread/cake products
120109	other education/research service			5		3		1		3		2	1	1	1		1	1		1					20	other education/research service

010101	meat/dairy products			4		2		2	1	1	1	1	1	1	1		2		2		19	meat/dairy products			
030105	bridge construction work			1		2		2	2	2	1	1	1	2		1	1	1	1	1		19	bridge construction work		
010309	other fiber products			1		1				1	1	3	1		2		1	2	2		1	1	17	other fiber products	
010401	lumbering							1	4	2	1		1	2	1		1				2		15	lumbering	
010501	wood furniture			1		4		2		1	1	1			2	1		1			1		15	wood furniture	
010801	non organic or organic chemical products			1				3		1	2			2	1		1	1			1	1	1	15	non organic or organic chemical products
010902	glass products							2	2	2	3	2			1	1					1	1		15	glass products
140201	general restaurant			4		2		2		1			2		1		1							13	general restaurant
010609	other pulp/paper processing products			2		2		1	1				1	1	1					1	1	1		12	other pulp/paper processing products
080101	all kinds of wholesale			3		2			2								2			1	2			12	all kinds of wholesale
011703	cleaning							2	4	2	1						1	1						11	cleaning
030111	port/seaside construction work			2		2					1		1	1		1	1		1	1				11	port/seaside construction work
140309	other amusement service							1			3	1		1	2				1	1		1		11	other amusement service
080203	furniture/fitings retail			3						1			1		1	2			1	1				10	furniture/fitings retail
140301	golf course					1				2		3		2		1				1				10	golf course
010103	agricultural food products			1					1	2		1	1				1			1				8	agricultural food products
010402	plywood							1		1		1			1		2				1	1		8	plywood
060101	agriculture			1				1	2		1					1	1			1				8	agriculture
010905	other ceramic products					1		1			1		3		1									7	other ceramic products
010702	bookbinding			1				1		1	1	1				1								6	bookbinding
010709	other printing and bookbinding					1		1		1						1	1			1				6	other printing and bookbinding
130101	hospital			2						1	1		1	1										6	hospital
170201	security service					1				1	1		2		1									6	security service

010106	soft drinks								1												1	1	1							5	soft drinks			
010803	pharmaceuticals			1						1	1											1	1								5	pharmaceuticals		
011304	watch products					2				1															1						5	watch products		
030108	sand collapse prevention civil engineering work																														5	sand collapse prevention civil engineering work		
040309	other land cargo transportation service										1																				5	other land cargo transportation service		
060201	lumbering					1				1	1	1																				5	lumbering	
080102	furniture/fittings wholesale																															5	furniture/fittings wholesale	
010804	petroleum/coal products			1																												4	petroleum/coal products	
010808	painting products			1							2																						4	painting products
010809	chemical fertilizer products			1																													4	chemical fertilizer products
020309	other mining																																4	other mining
030102	tunnel construction work																																4	tunnel construction work
030107	river civil engineering work																																4	river civil engineering work
040202	bus service																																4	bus service
050202	port cargo handling service																																4	port cargo handling service
140209	other restaurants																																4	other restaurants
010203	weaving			1																													3	weaving
010204	dyeing			1																													3	dyeing
011603	city water service																																3	city water service
020202	gravel digging																																3	gravel digging
040101	railroad service			1																													3	railroad service
040302	specific truck transportation service																																3	specific truck transportation service
070209	other fishery																																3	other fishery
130109	other medical treatment			1																													3	other medical treatment

service																					service					
160101	public office				1		1											1						3	public office	
010105	alcoholic drinks						1	1																2	alcoholic drinks	
010301	over/under wear				1																		1	2	over/under wear	
010807	leather products											1		1										2	leather products	
010904	fire resisting products			1																				2	fire resisting products	
130301	bathhouse														2									2	bathhouse	
140101	hotel			1																				1	2	hotel
011602	city gas service											1													1	city gas service
011609	other electric/gas/water service			1																					1	other electric/gas/water service
020201	quarrying														1										1	quarrying
040102	water transportation service																								1	water transportation service
040201	taxi service			1																					1	taxi service
050201	general harbor transportation service															1									1	general harbor transportation service
090103	insurance business																								1	insurance business
090201	traveling service			1																					1	traveling service
120101	auto mobile practical training																							1	1	auto mobile practical training
010201	silk-reeling																									silk-reeling
010202	cotton-spinning																									cotton-spinning
010802	chemical fiber																									chemical fiber
011601	electric utility service																									electric utility service
011704	tobacco products																									tobacco products
020101	general coal mining																									general coal mining
020109	other coal mining																									other coal mining
020209	other quarrying																									other quarrying

130309	other health and hygiene service																									other health and hygiene service
140302	park and amusement park																									park and amusement park
150104	cremation service																									cremation service
150105	livestock process service																									livestock process service
170202	information processing service																									information processing service
	total			1,716	1,480		1,353	1,415	1,341	1,191	821	921	981	956	931	931	796	779	844	831	817	725	788	19,617	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