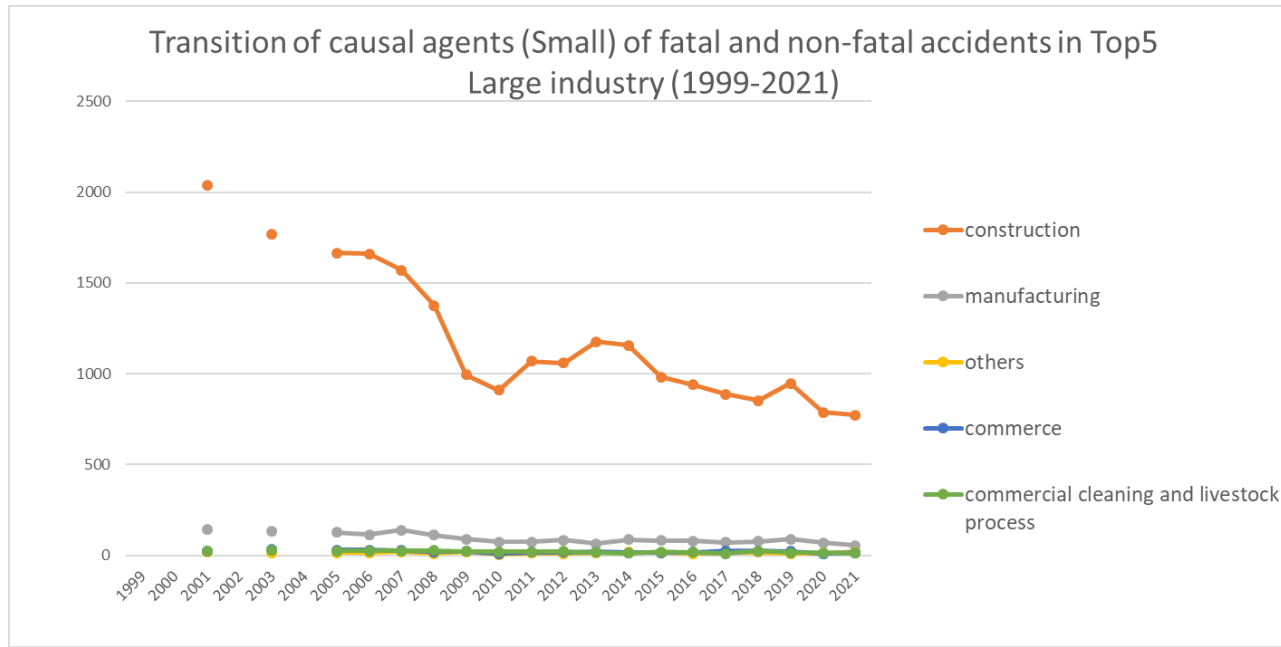
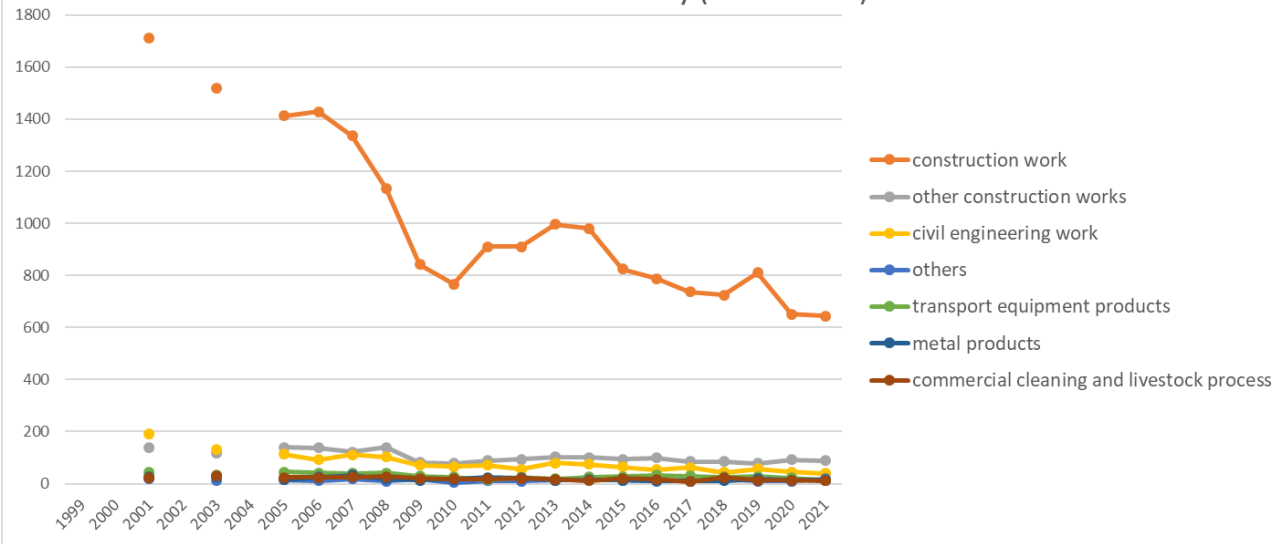


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 411 scaffolding (1999-2021)



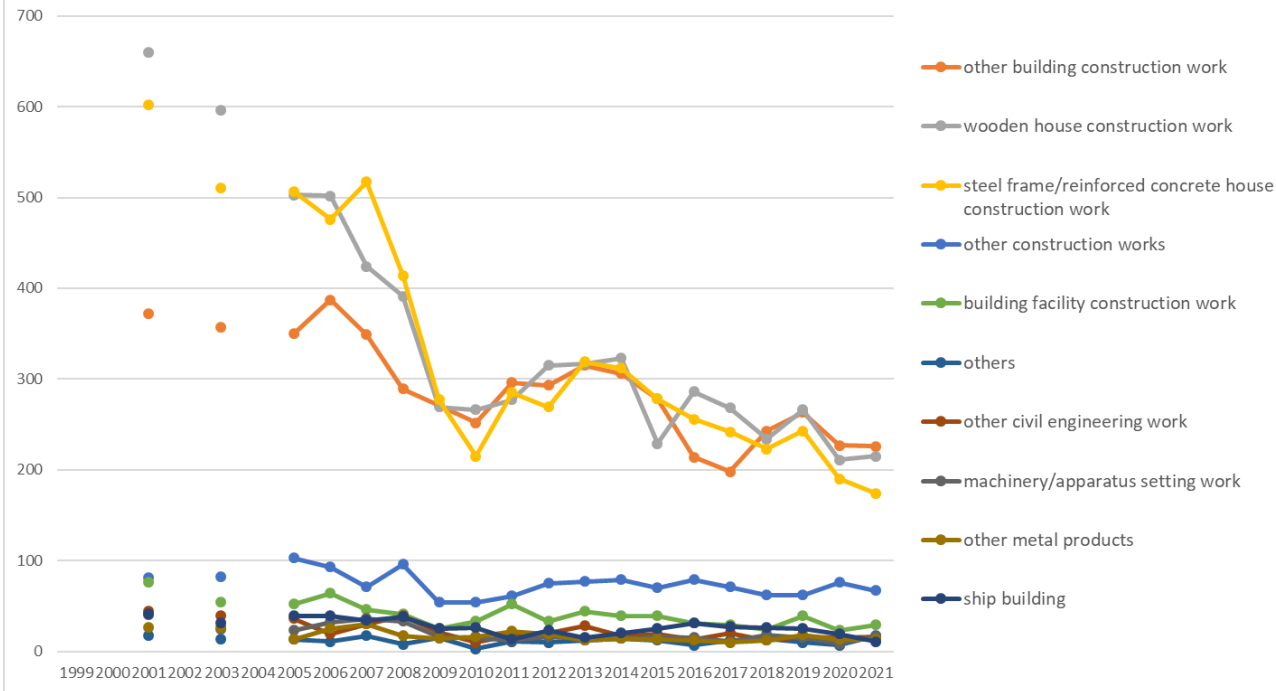
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 411 scaffolding in Large industry (1999-2021)

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. 411 scaffolding 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. 411 scaffolding in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 411 scaffolding 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			2,038		1,766		1,664	1,659	1,569	1,376	995	910	1,069	1,060	1,177	1,155	982	940	886	853	946	788	772	22,605	construction
01	manufacturing			140		134		127	114	139	112	90	74	74	85	63	87	82	80	72	77	90	69	54	1,763	manufacturing
17	others			20		14		15	13	19	9	18	5	12	10	13	17	13	10	15	17	10	12	18	260	others
08	commerce			23		32		29	28	26	20	21	10	17	17	19	13	15	16	23	25	22	10	13	379	commerce
15	commercial cleaning and livestock process			23		29		24	23	25	27	21	19	18	21	17	12	20	17	8	23	13	13	12	365	commercial cleaning and livestock process
04	transportation service			19		20		10	16	20	13	15	7	15	12	4	19	18	7	8	7	11	14	12	247	transportation service
14	hotel/restaurant/amusement service			10		16		8	4	10	8	11	5	6	4	9	10	6	6	3	2	4		5	127	hotel/restaurant/amusement service

13	health and hygiene service			1		2		3	2	6	1	2	4	2	6	2	4	7	6	4	6	3	3	5	69	health and hygiene service
05	cargo handling service			5		5		6	1	5	1	1	3		3	2	3			3	3	3	2	4	50	cargo handling service
06	agriculture			8		5		5	8	5	3	2	4	1	4	2	5	3	1	2	4	5	2	3	72	agriculture
10	movie/play service			1				3	2	1	1	2	1		1	2	2	1	1	1	1	2		3	25	movie/play service
07	livestock/fishery			3		4		5	4	3	1	2	4	2	4	3	1	1	1	1	3	4	2	2	50	livestock/fishery
02	mining			4		2		2	3	4	3		3	3	2		3	2	2		1	2	2	2	40	mining
11	telecommunication service					2				2		1		2	1			1	1	1			1	2	14	telecommunication service
09	financial business/advertisement					4		2		2	1		1	3	3	3		2	1	2				1	25	financial business/advertisement
12	education/research service			1				1	3	1	3	1	3		1	1	1	1	4	1	1	1	1		25	education/research service
16	public office							1	1	1	1					1							1		6	public office
	total			2,296		2,035		1,905	1,881	1,838	1,580	1,182	1,053	1,224	1,234	1,318	1,332	1,154	1,093	1,030	1,023	1,116	920	908	26,122	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 411 scaffolding 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
0302	construction work			1,710		1,517		1,412	1,429	1,336	1,135	842	766	910	910	995	980	824	787	737	724	811	651	644	19,120	construction work
0303	other construction works			138		118		139	138	122	139	82	78	88	94	102	101	94	100	86	86	78	92	89	1,964	other construction works
0301	civil engineering work			190		131		113	92	111	102	71	66	71	56	80	74	64	53	63	43	57	45	39	1,521	civil engineering work
1702	others			20		14		15	12	19	9	18	5	12	10	13	17	13	9	15	17	10	10	18	256	others
0115	transport equipment products			45		35		45	42	39	42	30	26	15	24	19	26	27	32	30	26	28	22	14	567	transport equipment products
0112	metal products			26		26		15	25	33	18	14	16	23	22	14	15	13	12	10	12	19	14	14	341	metal products
1501	commercial cleaning and livestock process			23		29		24	23	25	27	21	19	18	21	17	12	20	17	8	23	13	13	12	365	commercial cleaning and livestock process
0403	road cargo transportation service			17		16		8	13	16	10	15	4	11	10	3	16	16	5	7	7	11	13	9	207	road cargo transportation service
0802	retail			11		21		15	14	16	10	8	4	7	8	8	6	9	9	9	15	14	3	9	196	retail

0101	food products			8		10		6	8	4	3	7	4	4	6	3	5	8	12	6	3	6	2	6	111	food products
0109	sand and stone products			23		18		11	8	15	14	8	3	4	4	6	10	6	5	2	9	4	8	4	162	sand and stone products
0113	machine products			15		8		11	7	10	14	10	6	6	7	3	8	6	9	9	3	3	9	3	147	machine products
0801	wholesale			1		3		7	5	3	3	5	4	8	3	5	3	3	4	8	3	5	3	3	79	wholesale
0601	agriculture			5		5		5	6	5	2	2	4	1	3	2	3	3	1	1	2	3	1	3	57	agriculture
1302	social welfare facility					1		1		3	1	2	1	1	3	1	3	5	4	2	5	2	2	3	40	social welfare facility
0501	land cargo handling service			3		2		4	1	2		1	2		3	2	2			3	2	2	1	3	33	land cargo handling service
1001	movie/play service			1				3	2	1	1	2	1		1	2	2	1	1	1	1	2		3	25	movie/play service
0117	other manufacturing			11		11		17	9	11	9	6	5	8	5	4	8	3	4	3	10	9	5	2	140	other manufacturing
0108	chemical products			4		4		3	5	4	6	2	4	5	3	6	3	3	2	5	4	5	2	2	72	chemical products
1403	other amusement service			5		4		3	1	5	5	3	3	1	1	4	1	3	1	2	2	2		2	48	other amusement service
0202	quarrying			4		2		2	3	4	2		3	3	2		3	2	2		1	2	2	2	39	quarrying
0114	electrical equipment products					5		4	1	3	1	1	1	1	2			3	2	2	1	2	1	2	32	electrical equipment products
1402	restaurant					5		1		2		2		2	1	3	2	1	3	1				2	25	restaurant
0106	pulp/paper processing products			2		3		2		1		3	1		1		3			1		3		2	22	pulp/paper processing products
0401	railroad/water transportation/airline service			2		3			1	2	2		1	2		1	2	1	1	1			1	2	22	railroad/water transportation/airline service
1301	medical treatment service			1				2	2	3			2	1	2	1		2		1	1	1	1	2	22	medical treatment service
0116	electric/gas/water service			1		1		1	2	2			2	1	1	1								2	14	electric/gas/water service
1101	telecommunication service					2				2		1		2	1			1	1	1			1	2	14	telecommunication

																										service
0804	other commerce			11	8	7	9	7	7	8	2	2	6	6	4	3	3	6	7	3	4	1	104	other commerce		
0104	wood products			3	7	4	1	10	3	4	1	5	4	4	5	6			6	6	3	1	73	wood products		
1401	hotel			5	7	4	3	3	3	6	2	3	2	2	7	2	2			2		1	54	hotel		
0701	livestock			3	1	3	2	2	1	2	4	1	3	1				1	1	3	2	1	31	livestock		
0902	advertisement and mediator				3	1		2	1		1	2	2	2		2	1	2				1	20	advertisement and mediator		
0702	fishery				3	2	2	1				1	1	2	1	1	1		2	1		1	19	fishery		
0105	furniture			2	1	4	1	2		2					1	1			1	2		1	18	furniture		
0402	road passenger transport service				1	2	2	2	1		2	2	2		1		1					1	17	road passenger transport service		
0502	harbor transportation service			2	3	2		3	1		1				1				1	1	1	1	17	harbor transportation service		
0102	textile products				1				1		1		1	1	1	1				1	2	1	11	textile products		
0110	steel making				2	3	4	4	1	2	2	2	1	2		3	1	3	1	1			32	steel making		
1201	education/research service			1			1	3	1	3	1	3		1	1	1	1	4	1	1	1		25	education/research service		
0602	forestry			3				2		1				1		2			1	2	2	1	15	forestry		
0103	fiber products				2						2		1		1			1			1		8	fiber products		
0107	printing/bookbinding								1		1			2		1	1			1			7	printing/bookbinding		
1303	other health and hygiene service				1							1		1		1		2	1				7	other health and hygiene service		
0111	nonferrous metal making							1	1					1			1	1		1			6	nonferrous metal making		
1601	public office							1	1	1	1				1						1		6	public office		
0901	financial business				1		1						1	1	1								5	financial business		
1701	dispatch service								1									1				2	4	dispatch service		
0203	other mining									1													1	other mining		

0404	other transportation service																	1																		1	other transportation service
0201	coal mining																																			coal mining	
0803	haircut/beauty salon																																			haircut/beauty salon	
	total				2,296		2,035		1,905	1,881	1,838	1,580	1,182	1,053	1,224	1,234	1,318	1,332	1,154	1,093	1,030	1,023	1,116	920	908	26,122	total										

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 411 scaffolding 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
030209	other building construction work			372		357		350	387	349	289	271	252	296	293	315	306	278	214	198	243	263	227	226	5,486	other building construction work
030202	wooden house construction work			660		596		503	502	424	391	269	266	277	315	317	323	229	286	268	234	266	211	215	6,552	wooden house construction work
030201	steel frame/reinforced concrete house construction work			602		510		507	476	517	414	277	215	285	269	319	312	278	256	242	223	243	190	174	6,309	steel frame/reinforced concrete house construction work
030309	other construction works			81		82		103	93	71	96	54	54	61	75	77	79	70	79	71	62	62	76	67	1,413	other construction works
030203	building facility construction work			76		54		52	64	46	41	25	33	52	33	44	39	39	31	29	24	39	23	29	773	building facility construction work
170209	others			17		13		13	11	17	8	15	3	11	10	12	14	12	7	12	14	10	7	17	223	others
030199	other civil engineering work			44		39		36	19	30	39	21	10	18	20	28	17	19	13	20	12	16	15	16	432	other civil engineering work
030302	machinery/apparatus setting work			40		24		23	32	36	33	16	15	12	16	14	14	16	15	11	18	15	9	16	375	machinery/apparatus setting work
011209	other metal products			26		26		13	25	30	17	14	16	22	19	12	14	13	12	10	12	18	13	13	325	other metal products
011501	ship building			41		31		39	39	34	38	25	26	13	23	15	20	25	31	27	26	25	19	11	508	ship building
150101	building maintenance service			18		20		12	14	12	16	17	14	13	13	11	5	10	11	6	13	10	6	9	230	building maintenance service
030106	road construction work			36		24		15	14	13	15	12	5	8	5	6	8	8	7	11	6	6	5	7	211	road construction work
040301	general truck transportation service			16		14		7	12	13	7	14	4	9	10	2	15	12	5	7	7	10	12	6	182	general truck transportation service

030301	electricity/telecommunication work			17		12		13	13	15	10	12	9	15	3	11	8	8	6	4	6	1	7	6	176	electricity/telecommunication work
030105	bridge construction work			36		28		16	28	32	25	14	32	25	15	22	23	20	17	13	13	16	11	5	391	bridge construction work
080209	other retails			7		17		9	9	9	6	5	2	6	6	6	2	7	6	8	7	9	1	5	127	other retails
011301	machine products			13		6		11	6	9	14	10	5	4	5	3	6	6	9	9	3	2	8	3	132	machine products
080109	other wholesale			1		2		7	4	3	2	4	3	7	1	5	3	2	4	7	2	4	3	3	67	other wholesale
060101	agriculture			5		5		5	6	5	2	2	4	1	3	2	3	3	1	1	2	3	1	3	57	agriculture
010109	other foods			1		5		3	3	2	2	3		1	3	1	2	6	6			2	2	3	45	other foods
130201	social welfare facility					1		1		3	1	2	1	1	3	1	3	5	4	2	5	2	2	3	40	social welfare facility
050101	land cargo handling service			3		2		4	1	2		1	2		3	2	2			3	2	2	1	3	33	land cargo handling service
030101	hydroelectric plant construction work			3		1				2					2		1	2	1	1	2		1	3	19	hydroelectric plant construction work
010102	fishery products			3		2			2	1			2		2	1			1			1		3	18	fishery products
100109	other movie/play service							2	2		1	2	1			1	1			1	1	2		3	17	other movie/play service
010901	cement products			14		10		6	7	9	8	6	3	2	4	4	8	3	5	1	8	2	6	2	108	cement products
030109	land consolidation civil engineering work			8		6		11	8	7	5	6	1	3	1	5	1	4	3	3	1	2	3	2	80	land consolidation civil engineering work
011709	other manufacturing			6		5		8	6	1	5	1	2	4	2	2	2		3	1	8	5	2	2	65	other manufacturing
030110	water supply/sewage construction work			9		5		7	4	4	1	1	3	2	1	3	4	2		4	2	2	4	2	60	water supply/sewage construction work
020201	quarrying			1		1		2	2	3			2	2	1		3		1		1		2	2	23	quarrying
130101	hospital			1				2	1	3			2	1	2	1		1		1	1		1	2	19	hospital
150103	other waste disposal service			1		3			2	4	1				1		2		1				1	2	18	other waste disposal service
011503	railway vehicle products					2		1		1		1		1			2	2	1			2		2	15	railway vehicle products
110101	telecommunication service					2			2		1		2	1			1	1	1				1	2	14	telecommunication service
040101	railroad service			2		1			1	1	1		1	1		1	1						1	2	13	railroad service
011403	electronics equipment and telecommunications					1		2		1	1								2					2	9	electronics equipment and telecommunications

	apparatus																										apparatus
040302	specific truck transportation service								1	2			2				1					1	2	9	specific truck transportation service		
080409	other commerce			11		6		5	8	6	5	7	2	2	4	5	4	3	2	5	7	3	3	1	89	other commerce	
030111	port/seaside construction work			8		4		6	2	4	3	2	4	2	1	5	6	4	3	6	1	5	3	1	70	port/seaside construction work	
150102	industrial waste management service					2		2	5	6	6	2	4	2	5	2	5	3	3	2	6	2	4	1	62	industrial waste management service	
140101	hotel			5		7		4	3	3	3	6	2	3	2	2	7	2	2			2		1	54	hotel	
030102	tunnel construction work			4		3		2	2	2	4	1	1	5	3		2		2	2			2		1	36	tunnel construction work
010909	other sand and stone products			5		3		4		2	5	2		2		2		2		1	1	2	2	1	34	other sand and stone products	
030104	railway construction work			7		4		3		5		3	1	2	1	2	1			1	1	1	1	1	34	railway construction work	
140309	other amusement service			3		4		3	1	3	4	2	1	1		3	1	3			2	1		1	33	other amusement service	
170201	security service			3		1		2	1	2	1	3	2	1		1	3	1	2	3	3		3	1	33	security service	
070101	livestock			3		1		3	2	2	1	2	4	1	3	1				1	1	3	2	1	31	livestock	
011502	auto mobile products			3		2		4	3	2	3	1			1	2	4			2		1		1	29	auto mobile products	
010805	plastics products			1		1			3		2		1	4	2	3		2	2	2	2	1	2	1	1	28	plastics products
140201	general restaurant					5		1		2		2		2	1	2	1	1	2	1				1	21	general restaurant	
090209	other advertisement and mediator					3		1		2	1		1	2	2	2		2	1	2				1	20	other advertisement and mediator	
010409	other lumber and wood products			1		2			1	2		1	1	1	2	2	2	1				1	1	1	19	other lumber and wood products	
080201	all kinds of retail			2		1		2	1	3		2	1				1			1	1	2	1	1	19	all kinds of retail	
010801	non organic or organic chemical products			2				2	1	1	2		1	1			1			2	1	2	1	1	18	non organic or organic chemical products	
010601	pulp/paper			2		3						3	1		1		1			1		2		1	15	pulp/paper	
080203	furniture/fittings retail			1				1		2	1			1			2	1			4	1		1	15	furniture/fittings retail	
050202	port cargo handling service			2		1		1		1	1		1			1				1	1	1	1	1	12	port cargo handling service	

040309	other land cargo transportation service			1					1	1	1	1					1	1	2				1	1	11	other land cargo transportation service		
080205	newspaper retail								2		1	1			2	2							2		1	11	newspaper retail	
030103	subway construction work			1		2			2		1		1										1		1	10	subway construction work	
040202	bus service								1	1	1	1		2	1	1							1		1	10	bus service	
140301	golf course			1							1	1	1	1									1		1	10	golf course	
010902	glass products			1		4					1	1													1	9	glass products	
070209	other fishery						3		2						1		1								1	9	other fishery	
080202	auto mobile retail					1			1		1	1											2		1	1	9	auto mobile retail
011203	metal press products								1		2	1			1	1									1	7	metal press products	
011601	electric utility service			1					2		1				1										1	7	electric utility service	
010503	fittings			1					1	1														1		1	5	fittings
010602	paper processing products								2																1	1	5	paper processing products
010209	other textile products																								1	1	4	other textile products
140209	other restaurants																								1	1	4	other restaurants
011603	city water service						1		1																1	3	city water service	
030108	sand collapse prevention civil engineering work																										109	sand collapse prevention civil engineering work
030107	river civil engineering work																										69	river civil engineering work
150109	other cleaning and livestock process service																										52	other cleaning and livestock process service
010401	lumbering																										45	lumbering
011701	auto mobile servicing																										38	auto mobile servicing
011702	machine repair																										34	machine repair
120109	other education/research service																										23	other education/research service
010105	alcoholic drinks																										22	alcoholic drinks
011409	other electrical equipment																										15	other electrical equipment

011509	other transport equipment products			1				1		2	1	3		1		2				1		3	15	other transport equipment products
080204	fuel retail			1		2		2	2	1	1					1	1	1		1	1	1	15	fuel retail
080401	warehousing					2		2	1	1	2	1			2	1			1	1		1	15	warehousing
011001	steel/iron/rolling products							1	2	2	1	1		1	1	1					3		14	steel/iron/rolling products
011305	other precision machine products			2		2			1	1			1	2	2						1	1	14	other precision machine products
011009	other steel products					2		1	2	2		1	2		1		1				1		13	other steel products
020202	gravel digging			1		1			1		2		1	1	1			2	1			1	12	gravel digging
010101	meat/dairy products			1		1		2			1	1			1			1	1			1	10	meat/dairy products
060201	lumbering			1					1		1				1			1	2	2	1		10	lumbering
070201	fishery							2	1					1	1	1		1		2	1		10	fishery
010402	plywood					2				1					1			1		2	2		9	plywood
010899	other chemical products			1		1		1	1	1			1							1			9	other chemical products
010104	bread/cake products			1								1	1		1			1	2		1		8	bread/cake products
011204	metal plating products							1		1				1	2	1					1	1	8	metal plating products
080101	all kinds of wholesale					1				1	1	1		1			1		1	1			8	all kinds of wholesale
010509	other furniture							2				2					1				2		7	other furniture
010804	petroleum/coal products					1				1					2	2				1			7	petroleum/coal products
100101	movie production and delivery service			1						1				1	1	1	1	1					7	movie production and delivery service
010309	other fiber products					2							2		1							1	6	other fiber products
010501	wood furniture			1		1		1	2							1							6	wood furniture
010905	other ceramic products			3					1	2													6	other ceramic products
011402	electrical appliance							2		1				1			1				1		6	electrical appliance
160101	public office							1	1	1	1				1							1	6	public office
010103	agricultural food products								1							1		2	1				5	agricultural food products
010701	printing service								1		1			1		1	1						5	printing service

011002	casting products						1						1			1	1			1			5	casting products		
040102	water transportation service					1							1			1	1	1					5	water transportation service		
040303	cargo/ light automobile transportation service					2		1		1						1							5	cargo/ light automobile transportation service		
060209	other forestry					2				1				1		1							5	other forestry		
140302	park and amusement park					1						1										2		5	park and amusement park	
010904	fire resisting products					1		1								2							4	fire resisting products		
011602	city gas service									1			1	1	1								4	city gas service		
020209	other quarrying					2																1		4	other quarrying	
040103	airline service					1				1	1											1		4	airline service	
040201	taxi service					1		1		1						1								4	taxi service	
080102	furniture/fittings wholesale									1			1	1								1		4	furniture/fittings wholesale	
130309	other health and hygiene service															1						2	1	4	other health and hygiene service	
170101	dispatch service									1												1		2	4	dispatch service
010106	soft drinks													1								1		3	soft drinks	
010203	weaving												1									1		3	weaving	
010802	chemical fiber					1							1											3	chemical fiber	
010803	pharmaceuticals																						1	3	pharmaceuticals	
011109	other nonferrous metal products																						1	3	other nonferrous metal products	
011703	cleaning																						1	3	cleaning	
040209	other passenger transport service																						1	3	other passenger transport service	
050201	general harbor transportation service																						2	3	general harbor transportation service	
130301	bathhouse					1																		3	bathhouse	
150105	livestock process service																						1	1	3	livestock process service

010204	dyeing					1													1		2	dyeing
010301	over/under wear												1			1					2	over/under wear
010609	other pulp/paper processing products													1							2	other pulp/paper processing products
010709	other printing and bookbinding												1						1		2	other printing and bookbinding
010809	chemical fertilizer products														1						2	chemical fertilizer products
011101	nonferrous metals/rolling products																		1		2	nonferrous metals/rolling products
011401	heavy electrical equipment																		1		2	heavy electrical equipment
050209	other harbor transportation service																				2	other harbor transportation service
090101	banking/trust business																				2	banking/trust business
090109	other financial business																				2	other financial business
130102	general clinic																				2	general clinic
010201	silk-reeling																				1	silk-reeling
010202	cotton-spinning																				1	cotton-spinning
010806	rubber products																				1	rubber products
010808	painting products																				1	painting products
010903	pottery products																				1	pottery products
011102	nonferrous metals casting products																				1	nonferrous metals casting products
011201	western tableware/cutting tool products																				1	western tableware/cutting tool products
011302	measuring instruments																				1	measuring instruments
020309	other mining																				1	other mining
040409	other transportation service																				1	other transportation service
090103	insurance business																				1	insurance business

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

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