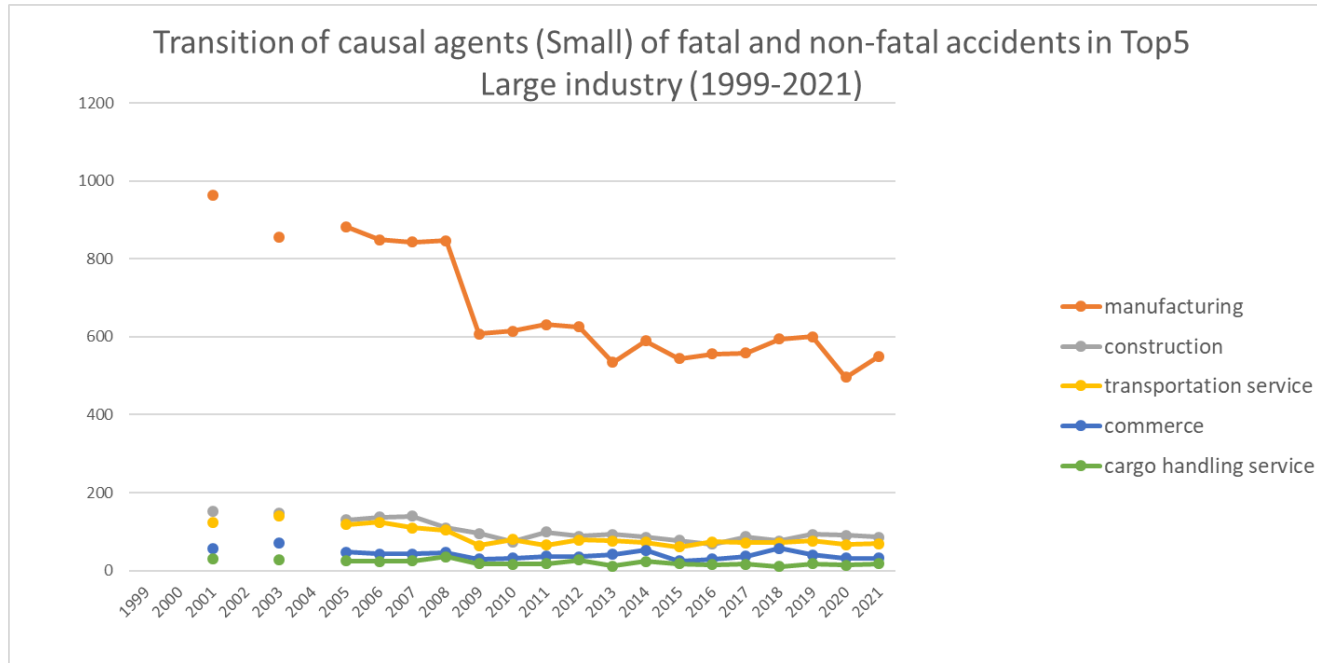
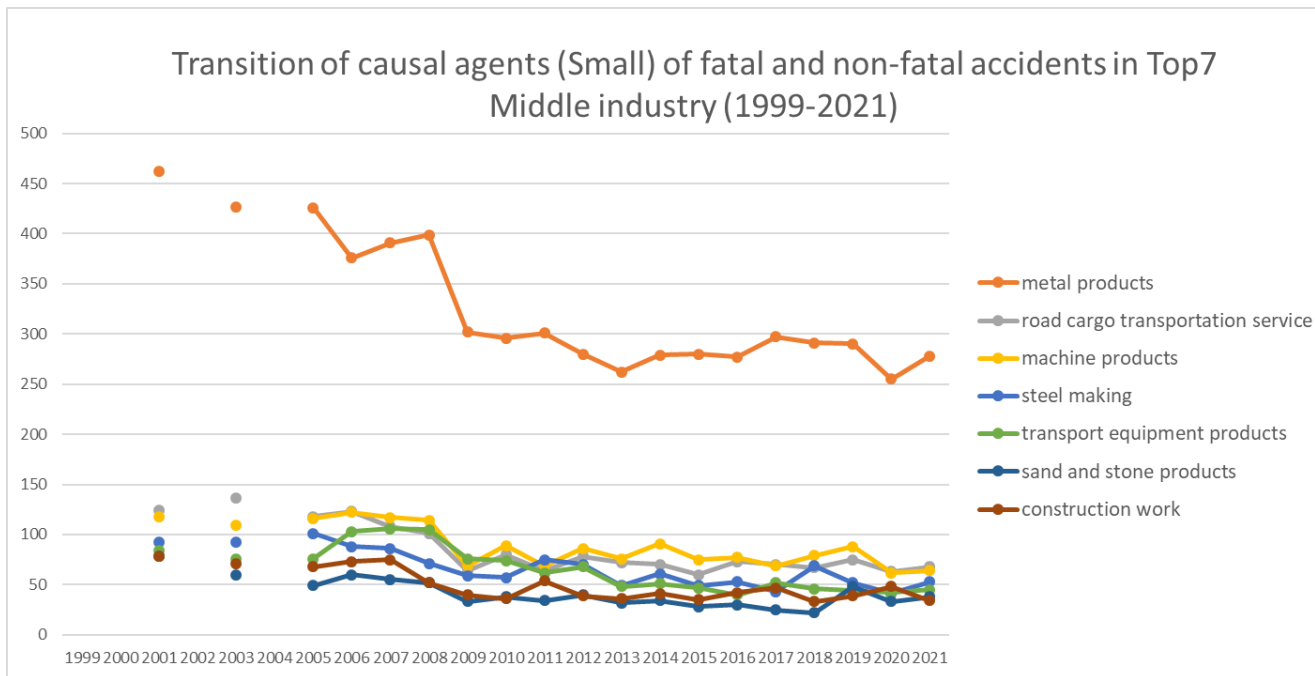


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 211 crane (1999-2021)

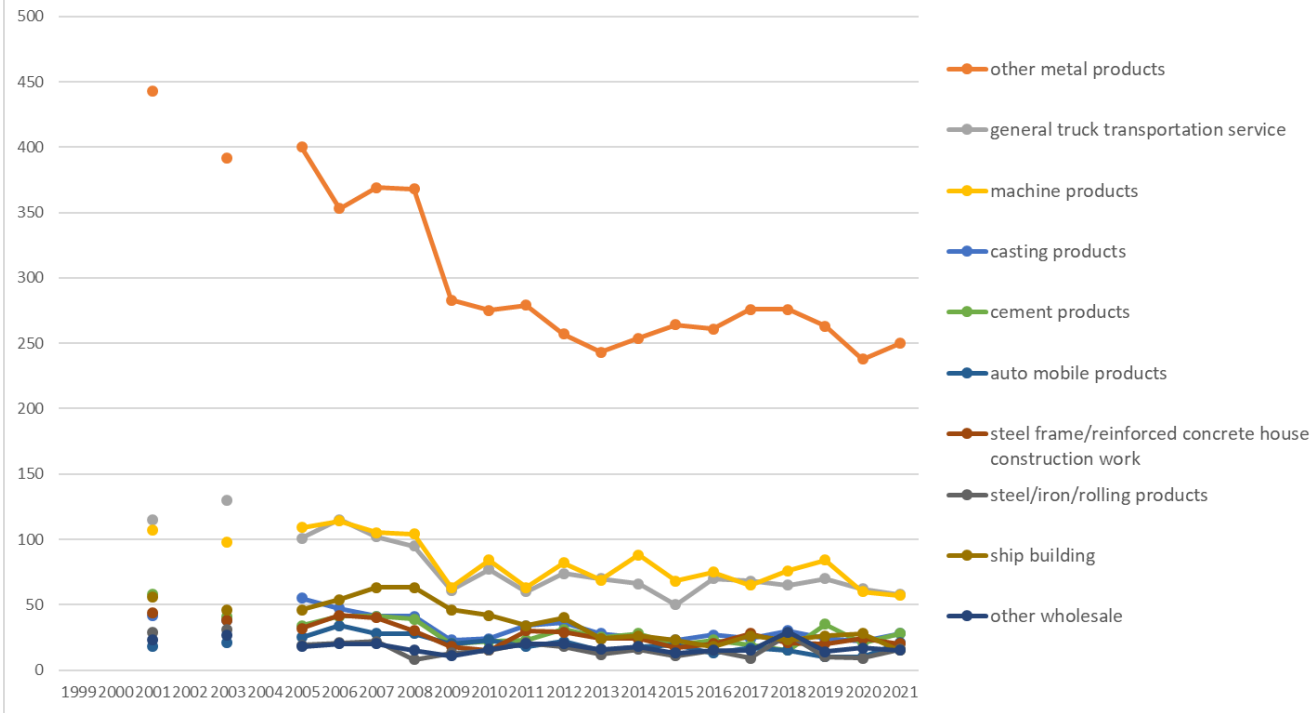


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 211 crane in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 211 crane 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. 211 crane in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 211 crane 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			963		856		883	849	843	847	607	615	631	625	534	590	544	556	559	595	601	496	550	12,744	manufacturing
03	construction			151		148		130	137	140	110	95	74	99	88	93	86	77	68	87	76	93	91	86	1,929	construction
04	transportation service			124		140		118	124	110	104	64	80	65	78	76	72	60	74	71	71	76	67	69	1,643	transportation service
08	commerce			56		70		47	43	43	46	30	32	37	35	41	52	25	29	37	57	40	32	32	784	commerce
05	cargo handling service			29		28		25	24	25	35	17	16	17	27	12	24	18	15	16	10	18	14	18	388	cargo handling service
15	commercial cleaning and livestock process			14		6		15	12	5	11	13	13	7	11	13	8	5	11	3	9	6	7	13	182	commercial cleaning and livestock process
17	others			13		13		25	19	14	13	9	6	9	7	15	5	7	12	7	8	10	6	7	205	others

02	mining			3		3		1	4	2	3		2	3	2	1	2	1	2	3	1	3	4	1	41	mining
07	livestock/fishery			3		3		2	1	2	4	3	2	1	1	1		1	1		1	3	1	30	livestock/fishery	
06	agriculture			1		1		4	1	1	2	2	1	1		1	1	3	1		1		3	1	25	agriculture
12	education/research service												1		1	1								1	6	education/research service
13	health and hygiene service																						2	1	3	health and hygiene service
09	financial business/advertisement					1		1					1				2	1	1						7	financial business/advertisement
11	telecommunication service								2				1	1		1							1		6	telecommunication service
10	movie/play service							1																	1	movie/play service
14	hotel/restaurant/amusement service																						1		1	hotel/restaurant/amusement service
16	public office																									public office
	total			1,357		1,269		1,252	1,216	1,185	1,175	840	844	871	875	789	840	742	772	785	828	850	725	780	17,995	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 211 crane 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			462		427		426	376	391	399	302	296	301	280	262	279	280	277	297	291	290	255	278	6,169	metal products	
0403	road cargo transportation service			124		136		118	123	108	101	64	80	64	78	72	70	60	73	70	67	75	63	68	1,614	road cargo transportation service	
0113	machine products			118		109		116	122	117	114	69	89	69	86	76	91	75	77	69	79	88	62	64	1,690	machine products	
0110	steel making			92		92		101	88	86	71	59	57	75	70	49	61	49	53	43	69	52	41	53	1,261	steel making	
0115	transport equipment products			84		76		76	103	106	105	76	74	62	68	48	51	47	40	52	46	44	42	45	1,245	transport equipment products	
0109	sand and stone products			78		60		49	60	55	52	33	38	34	40	32	34	28	30	25	22	48	33	38	789	sand and stone products	
0302	construction work			78		71		68	73	75	52	40	36	54	39	36	41	35	42	47	33	39	48	34	941	construction work	
	other construction																										other construction

0303	other construction works			32		24		26	37	27	33	28	15	22	26	26	22	20	15	23	27	32	9	28	472	works
0301	civil engineering work			41		53		36	27	38	25	27	23	23	23	31	23	22	11	17	16	22	34	24	516	civil engineering work
0108	chemical products			20		22		27	18	17	17	10	11	21	13	13	11	20	14	9	13	16	17	17	306	chemical products
0114	electrical equipment products			18		15		12	20	13	22	8	5	12	10	8	9	9	11	12	11	10	6	17	228	electrical equipment products
0117	other manufacturing			39		18		28	26	23	30	17	17	22	25	20	29	12	21	21	28	24	18	16	434	other manufacturing
0801	wholesale			27		31		19	22	21	16	11	17	20	21	17	18	13	17	19	31	15	18	15	368	wholesale
1501	commercial cleaning and livestock process			14		6		15	12	5	11	13	13	7	11	13	8	5	11	3	9	6	7	13	182	commercial cleaning and livestock process
0502	harbor transportation service			21		18		14	18	19	20	12	13	14	18	10	17	9	12	10	3	9	10	12	259	harbor transportation service
0804	other commerce			18		19		16	10	9	19	8	7	9	8	16	18	8	6	11	15	15	8	11	231	other commerce
0101	food products			8		9		12	8	4	6	10	4	10	6	4	10	1	7	6	9	8	8	9	139	food products
0111	nonferrous metal making			18		12		15	13	15	16	13	15	15	15	11	11	12	14	16	14	12	7	8	252	nonferrous metal making
1702	others			12		13		25	18	12	13	7	5	9	6	13	5	7	11	6	8	10	6	6	192	others
0802	retail			11		20		12	11	13	11	11	8	8	6	8	16	4	6	7	11	10	6	6	185	retail
0501	land cargo handling service			8		10		11	6	6	15	5	3	3	9	2	7	9	3	6	7	9	4	6	129	land cargo handling service
0102	textile products			2		4		4		1	3	1		3	3	1	2		7	2	3	3	2	3	44	textile products
0104	wood products			10		5		9	8	10	8	4	4	3	2	4	2	5	1	3	3	2	4	1	88	wood products
0702	fishery			3		3		2		2	3	1	2		1	1			1			1	3	1	24	fishery
0401	railroad/water transportation/airline service									1	2			1		1	1		1	1	2		4	1	15	railroad/water transportation/airline service
1701	dispatch service			1					1	2		2	1		1	2			1	1				1	13	dispatch service
0107	printing/bookbinding			3				2				1			1	1		1			1			1	11	printing/bookbinding

0602	forestry			1		1		1	1	1	1	1			1						1	10	forestry		
1201	education/research service											1		1	1						1	6	education/research service		
0203	other mining											1	1								1	3	other mining		
1302	social welfare facility																			2	1	3	social welfare facility		
0106	pulp/paper processing products			6		5		4	5	2	2	4	4	4	4	3		4	1	2	5	4	59	pulp/paper processing products	
0202	quarrying			2		3		1	4	2	3		1	2	2	1	2	1	2	3	1	3	4	37	quarrying
0105	furniture			1		1		2	2	1	2		1			2		1		1		1	15	furniture	
0601	agriculture							3			1	2		1		1	1	2	1			3	15	agriculture	
0103	fiber products			3						1				2				3	1				10	fiber products	
0404	other transportation service					4			1		1				2								8	other transportation service	
0402	road passenger transport service									1					1	1				2	1		6	road passenger transport service	
0701	livestock								1		1	2		1					1				6	livestock	
1101	telecommunication service								2				1	1		1					1		6	telecommunication service	
0116	electric/gas/water service			1		1					1									1			4	electric/gas/water service	
0902	advertisement and mediator							1									2		1				4	advertisement and mediator	
0901	financial business								1				1						1				3	financial business	
0201	coal mining			1																			1	coal mining	
1001	movie/play service							1															1	movie/play service	
1403	other amusement service																				1		1	other amusement service	
0803	haircut/beauty salon																							haircut/beauty salon	

030302	machinery/apparatus setting work			15		10		10	18	12	15	15	6	6	8	12	6	9	4	8	10	10	3	11	188	machinery/apparatus setting work
011204	metal plating products			9		12		9	6	4	16	8	9	13	9	10	11	9	5	7	7	15	8	11	178	metal plating products
011203	metal press products			7		14		12	12	14	10	8	9	4	9	7	7	6	8	11	7	12	7	11	175	metal press products
150102	industrial waste management service			7		1		7	7	2	5	6	6		8	8	4	2	5	2	3	2	1	10	86	industrial waste management service
011009	other steel products			21		23		27	20	23	22	23	18	20	16	9	20	15	11	10	12	18	10	9	327	other steel products
080409	other commerce			12		10		11	7	4	13	7	6	6	7	12	17	6	6	8	13	14	7	9	175	other commerce
030209	other building construction work			21		21		17	20	20	16	16	15	14	9	6	11	10	11	15	4	11	15	8	260	other building construction work
010909	other sand and stone products			14		15		11	16	11	10	10	10	7	7	5	6	8	6	3	4	7	11	8	169	other sand and stone products
011509	other transport equipment products			9		7		4	12	15	11	7	8	9	5	5	6	5	9	5	7	7	4	8	143	other transport equipment products
011409	other electrical equipment			9		8		4	7	4	6	3	5	8	5	3	9	2	6	6	5	5	4	8	107	other electrical equipment
050202	port cargo handling service			19		16		8	17	16	14	9	11	8	10	7	13	7	11	7	3	8	8	7	199	port cargo handling service
011702	machine repair			15		9		10	13	8	10	2	6	8	11	10	13	3	7	7	13	9	5	7	166	machine repair
011305	other precision machine products			8		10		6	7	10	7	6	5	4	4	6	3	7	2	4	3	3	2	7	104	other precision machine products
040302	specific truck transportation service			4		2		8	3	3	4		2	2	3		2	7	2		2	1		7	52	specific truck transportation service
011709	other manufacturing			16		7		15	9	10	15	9	6	9	11	7	14	6	8	10	9	15	9	6	191	other manufacturing
170209	others			12		13		25	17	11	13	6	5	8	6	11	4	5	9	6	7	10	6	6	180	others
080209	other retails			9		16		12	11	12	11	9	7	7	4	6	14	4	3	7	10	8	6	6	162	other retails
050101	land cargo handling service			8		10		11	6	6	15	5	3	3	9	2	7	9	3	6	7	9	4	6	129	land cargo handling service
011101	nonferrous metals/rolling products			9		4		3	6	8	11	5	2	3	3	4	3	6	5	7	4	5	1	6	95	nonferrous metals/rolling products
010109	other foods			2		5		6	5	2	4	4	2	6	1	2	4		3	3	3	1	4	5	62	other foods

011401	heavy electrical equipment			4		5		4	3	3	11	1		1	2	4		6	1	2	2	2		5	56	heavy electrical equipment
011202	screw products			1		8		3	5	2	1	2	3	5	4	1	5	1	3	2	1		1	5	53	screw products
030203	building facility construction work			6		3		6	5	6	3	3	4	5		2	2	4	7	4	3	2	5	4	74	building facility construction work
030106	road construction work			3		3		5	5	3	7	5	2	3	2	2	4	4		6		4	5	4	67	road construction work
050201	general harbor transportation service			1		2		4	1	2	5	3	2	5	6	3	4	2		3		1	2	4	50	general harbor transportation service
010103	agricultural food products			2		3		5	3	2	1	1	1	3	1	1	3		1		5	3	2	4	41	agricultural food products
011701	auto mobile servicing			8		2		3	4	5	4	6	5	4	3	3	2	3	5	4	5		4	3	73	auto mobile servicing
040309	other land cargo transportation service			5		4		7	5	2	2	2	1	2	1	2	2	2	1	2		3	1	3	47	other land cargo transportation service
011403	electronics equipment and telecommunications apparatus			3		2		1	6	3	4	1		2	3				2	4	2	2	1	3	39	electronics equipment and telecommunications apparatus
010209	other textile products			1		2		1		1	2	1		1	3		1		2		1	2	1	3	22	other textile products
010899	other chemical products			1		1			2		1	2	2	3		2		1	1		1	1		3	21	other chemical products
030102	tunnel construction work			1		2		2	2	1		1	1			1		1	1	2			1	3	19	tunnel construction work
030202	wooden house construction work			7		9		13	6	9	3	3	2	5	1	4	4	4	4		5	6	4	2	91	wooden house construction work
080401	warehousing			6		9		5	3	5	6	1	1	3	1	4	1	2		3	2	1	1	2	56	warehousing
030301	electricity/telecommunication work			7		3		1	1	2	2	3	2	1		3	5	1	1	1	3	6	2	2	46	electricity/telecommunication work
150101	building maintenance service			3		1		3	1	1	1	1	3			1				2		1	2	20	building maintenance service	
030104	railway construction work					2				2	1	1	1			2						2		2	13	railway construction work
011102	nonferrous metals casting products			7		3		7	4	3	1	7	9	5	5	3	6	5	3	5	5	4	5	1	88	nonferrous metals casting products
011109	other nonferrous metal products			2		5		5	3	4	4	1	4	7	7	4	2	1	6	4	5	3	1	1	69	other nonferrous metal products

030110	water supply/sewage construction work			3		7		6	4	4	1	1	2	3	3	4	1	3	3	2	1	2	3	1	54	water supply/sewage construction work
010401	lumbering			5		3		1	6	5	6	1	4	3	2	2	1	2		2	1	1	1	1	47	lumbering
010806	rubber products			3		6		5		4	2		1	3	1	2	1	4		2	2		4	1	41	rubber products
011503	railway vehicle products			1		2		1	3		3	3	1	1	1	4	1			4	1	1		1	28	railway vehicle products
011402	electrical appliance			2				3	4	3	1	3		1		1		1	2		2	1	1	1	26	electrical appliance
030107	river civil engineering work			3		1		1	2		2	3	1	1	2		1	1			1	2		1	22	river civil engineering work
010801	non organic or organic chemical products			4				2	1	1	1		2	1			2	1				4	1	1	21	non organic or organic chemical products
011201	western tableware/cutting tool products			2		1		2		2	4	1			1	1	2			1			1	1	19	western tableware/cutting tool products
010904	fire resisting products			1				2	1	1		1	3		2	1				1	1	1		1	16	fire resisting products
070209	other fishery			2		2		2		1	2		1									1	1	1	13	other fishery
170101	dispatch service			1					1	2		2	1		1	2			1	1				1	13	dispatch service
050209	other harbor transportation service			1				2		1	1			1	2				1					1	10	other harbor transportation service
010701	printing service			2				1				1			1	1		1			1			1	9	printing service
010905	other ceramic products			1		1		1	1		1	1	1		1									1	9	other ceramic products
150105	livestock process service					1		1			1					1		2		1				1	8	livestock process service
060201	lumbering			1		1		1			1	1					1							1	7	lumbering
120109	other education/research service												1		1	1			2					1	6	other education/research service
040102	water transportation service														1								3	1	5	water transportation service
130201	social welfare facility																						2	1	3	social welfare facility
020309	other mining												1											1	2	other mining
030105	bridge construction work			2		5		4	1	6		3	1	1	1	5	1		2		4		5		41	bridge construction work
150103	other waste disposal service			1		2		3	2	2	2	3	2	5	2	3	1	3	4	1	1	1	1		39	other waste disposal service

010502	metal furniture					1		2			2							1			1			7	metal furniture
010903	pottery products			1														2	2	1				7	pottery products
010104	bread/cake products			1								1	1		1					1				6	bread/cake products
010203	weaving					1		1										1	1			1		6	weaving
010309	other fiber products			2						1								2	1					6	other fiber products
040303	cargo/ light automobile transportation service							2		1		1									1			6	cargo/ light automobile transportation service
070101	livestock							1		1	2		1								1			6	livestock
080204	fuel retail			1		1									1		1			1	1			6	fuel retail
110101	telecommunication service							2				1	1		1						1			6	telecommunication service
010509	other furniture							2				1			2									5	other furniture
010609	other pulp/paper processing products			1						2			1								1			5	other pulp/paper processing products
010301	over/under wear			1										2							1			4	over/under wear
010803	pharmaceuticals							1					1	2										4	pharmaceuticals
011703	cleaning										1		1							1		1		4	cleaning
030101	hydroelectric plant construction work									1			1										1	4	hydroelectric plant construction work
090209	other advertisement and mediator					1											2				1			4	other advertisement and mediator
010804	petroleum/coal products							1													1			3	petroleum/coal products
010809	chemical fertilizer products												1	1		1								3	chemical fertilizer products
040202	bus service													1	1							1		3	bus service
060209	other forestry							1	1													1		3	other forestry
080202	auto mobile retail					1								2										3	auto mobile retail
090103	insurance business							1													1			3	insurance business
010105	alcoholic drinks																				1		1	2	alcoholic drinks

140201	general restaurant																										general restaurant
140209	other restaurants																										other restaurants
140301	golf course																										golf course
140302	park and amusement park																										park and amusement park
150104	cremation service																										cremation service
160101	public office																										public office
170202	information processing service																										information processing service
	total			1,357		1,269		1,252	1,216	1,185	1,175	840	844	871	875	789	840	742	772	785	828	850	725	780	17,995	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