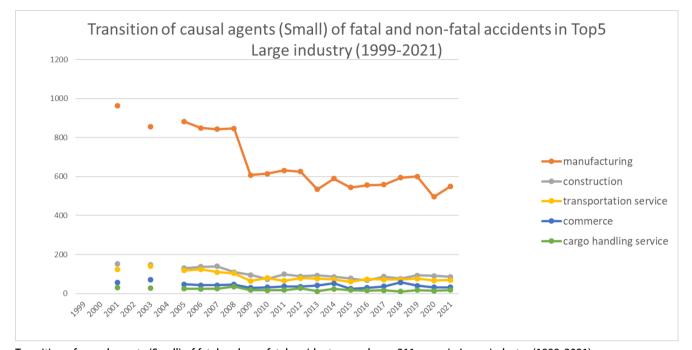
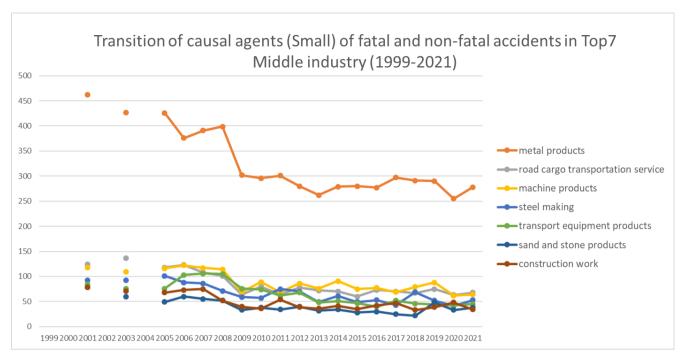
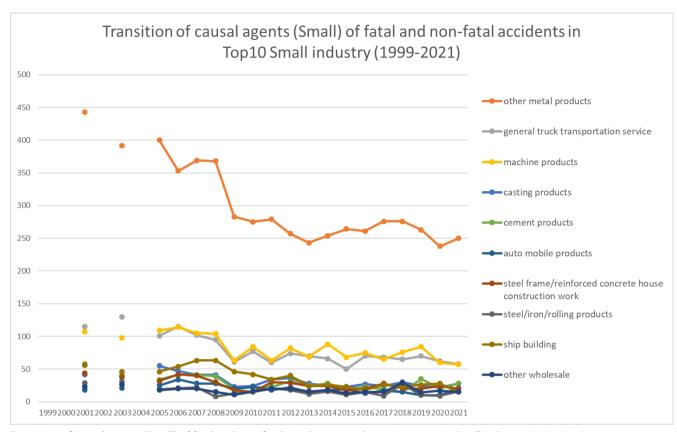
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 211 crane (1999-2021)



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 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			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																									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			2					1	6	education/research service
13	health and hygiene service																			2	1	3	health and hygiene service
09	financial			1	1					1					,	1	1					7	financial
09	business/advertisement				<u>'</u>											<u> </u>							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																		1			1	hotel/restaurant/amusement
	service																		<u> </u>			•	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

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	3	36	27	38	25	27	23	23	23	31	23	22	11	17	16	22	34	24	516	civil engineering worl
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
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
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	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			1	10	forestry
1201	education/research service									1		1	1			2					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

12	01 medical treatment service																							medical treatment
	or inedical treatment service																							service
12	02 other health and hugions convice																							other health and
13	03 other health and hygiene service																							hygiene service
14	01 hotel																							hotel
14	02 restaurant																							restaurant
16	01 public office																							public office
	total		1,35	7	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 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
011209	other metal products			443		392		400	353	369	368	283	275	279	257	243	254	264	261	276	276	263	238	250	5,744	other metal products
040301	general truck transportation service			115		130		101	115	102	95	61	77	60	74	70	66	50	70	68	65	70	62	58	1,509	general truck transportation service
011301	machine products			107		98		109	114	105	104	63	84	63	82	69	88	68	75	65	76	84	60	57	1,571	machine products
011002	casting products			42		38		55	47	41	41	23	24	34	36	28	25	23	27	24	30	24	22	28	612	casting products
010901	cement products			58		41		34	41	41	39	20	22	23	31	25	28	19	23	19	15	35	21	28	563	cement products
011502	auto mobile products			18		21		25	34	28	28	20	23	18	22	15	18	19	13	17	15	10	10	21	375	auto mobile products
	steel frame/reinforced																									steel frame/reinforced
	concrete house construction work			44		38		32	42	40	30	18	15	30	29	24	24	17	20	28	21	20	24	20	516	concrete house construction work
011001	steel/iron/rolling products			29		31		19	21	22	8	13	15	21	18	12	16	11	15	9	27	10	9	16	322	steel/iron/rolling products
011501	ship building			56		46		46	54	63	63	46	42	34	40	24	26	23	18	26	23	26	28	15	699	ship building
080109	other wholesale			23		27		18	20	20	15	11	16	20	20	16	18	13	15	15	29	14	17	15	342	other wholesale
030309	other construction works			10		11		15	18	13	16	10	7	15	18	11	11	10	10	14	14	16	4	15	238	other construction works
030199	other civil engineering work			23		19		12	12	14	10	12	13	11	13	12	12	10	5	4	9	9	15	13	228	other civil engineering work
010805	plastics products			12		14		18	15	12	13	8	4	13	9	8	7	13	12	7	10	10	11	12	208	plastics products

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
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	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							1	1	1	1	1											F.6	
	heavy electrical equipment		4	5		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 constructio 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 transportati 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	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	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	-	7	9	13	6	9	3	3	2	5	1	4	4	4	4		5	6	4	2	91	wooden house constructio
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/telecommunicat work
150101	building maintenance service		3	1	3	1	1	1	1	3				1				2		1	2	20	building maintenance serv
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

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030110	water supply/sewage construction work	3	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	5	3	1	6	5	6	1	4	3	2	2	1	2		2	1	1	1	1	47	lumbering
010806	rubber products	3	3	6	5		4	2		1	3	1	2	1	4		2	2		4	1	41	rubber products
011503	railway vehicle products	1	ı	2	1	3		3	3	1	1	1	4	1			4	1	1		1	28	railway vehicle products
011402	electrical appliance	2	2		3	4	3	1	3		1		1		1	2		2	1	1	1	26	electrical appliance
030107	river civil engineering work	3	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	1		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	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	2		1	2		1									1	1	1	13	other fishery
170101	dispatch service	1	ı			1	2		2	1		1	2			1	1				1	13	dispatch service
050209	other harbor transportation service	1	ı		2		1	1			1	2				1					1	10	other harbor transportation service
010701	printing service	2	2		1				1			1	1		1			1			1	9	printing service
010905	other ceramic products	1	ı	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	ı	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	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

010601	pulp/paper	3	3	3	2	1	1	2	4	2	2	3		2	1	1	3			33	pulp/paper
150109	other cleaning and livestock process service	3	1	1	2		2	3	2	2	1	2	1				2	3	4	29	other cleaning and livestoc process service
010409	other lumber and wood products	3	2	7	1	1	2	3				2	1	2	1				3	28	other lumber and wood products
030108	sand collapse prevention civil engineering work		8	2		2	3		2		2	4	1			1		1	1	27	sand collapse prevention c
020201	quarrying	2	2	1	3	2	1		1	1	2	1				2	1	3	4	26	quarrying
010902	glass products	3	3	1	1	2	2		2	4				1	1			4	1	25	glass products
080101	all kinds of wholesale	3	4	1	2	1	1		1		1	1			2	4	1	1	1	24	all kinds of wholesale
010602	paper processing products	2	2	1	1	1	1	1		2	2			2			2	4		21	paper processing products
030109	land consolidation civil	2	2	3	1	3	1			2			2	2			1	1		20	land consolidation civil engineering work
030111	port/seaside construction work	3	4	1		2		1		1		1	1			2		1	3	20	port/seaside construction work
010102	fishery products	3						4			1	1	2		2			1	1	15	fishery products
060101	agriculture			3			1	2		1		1	1	2	1				3	15	agriculture
010204	dyeing	1	1	2			1			1		1	1		3	1	1	1		14	dyeing
010402	plywood	2		1	1	4								1		1	2	1		13	plywood
011302	measuring instruments	2	1	1	1	2	3			2		1								13	measuring instruments
010101	meat/dairy products		1	1			1	1	1		2					2	1	2		12	meat/dairy products
080201	all kinds of retail	1	2			1		2	1		2		1		2					12	all kinds of retail
170201	security service				1	1		1		1		2	1	2	2		1			12	security service
070201	fishery	1	1			1	1	1	1		1	1			1				2	11	fishery
020202	gravel digging		1				2			1			2	1	2	1				10	gravel digging
040101	railroad service					1	2			1			1		1	1	2		1	10	railroad service
040409	other transportation service		4		1		1					2								8	other transportation servi

010502	metal furniture			1	2			2									1			1	7	metal furniture
010903	pottery products		1						1								2	2	1		7	pottery products
010104	bread/cake products		1								1	1		1		1			1		6	bread/cake products
010203	weaving			1	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				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 processin
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					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				1	3	petroleum/coal products
010809	chemical fertilizer products									1		1		1							3	chemical fertilizer product
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						1					3	insurance business
010105	alcoholic drinks														1		1				2	alcoholic drinks

010503	fittings			1											1						2	fittings
010802	chemical fiber													1				1			2	chemical fiber
010808	painting products											1			1						2	painting products
011303	optical instruments			1														1			2	optical instruments
011602	city gas service				1												1				2	city gas service
011603	city water service			1					1												2	city water service
040201	taxi service								1								1				2	taxi service
080102	furniture/fittings wholesale			1													1				2	furniture/fittings wholesale
010106	soft drinks																		1		1	soft drinks
010201	silk-reeling															1					1	silk-reeling
010202	cotton-spinning																1				1	cotton-spinning
010501	wood furniture								1												1	wood furniture
010702	bookbinding						1														1	bookbinding
010709	other printing and			1																	1	other printing and
010703	bookbinding			<u> </u>																		bookbinding
010807	leather products				1																1	leather products
020101	general coal mining			1																	1	general coal mining
020209	other quarrying							1													1	other quarrying
020301	metal mining										1										1	metal mining
030103	subway construction work			1																	1	subway construction work
040209	other passenger transport																	1			1	other passenger transport
	service	1																				service
080203	furniture/fittings retail											1									1	furniture/fittings retail
080205	newspaper retail																	1			1	newspaper retail
100109	other movie/play service						1														1	other movie/play service
140309	other amusement service																	1			1	other amusement service
011304	watch products																					watch products
			II -7		11		11	11	II .		II			111	II			II	II	ll	II	

011601	electric utility service													electric utility service
011609	other electric/gas/water service													other electric/gas/water service
011704	tobacco products													tobacco products
020109	other coal mining													other coal mining
020302	petroleum mining													petroleum mining
040103	airline service													airline service
080301	haircut													haircut
080302	beauty salon													beauty salon
090101	banking/trust business													banking/trust business
090102	stock/commodity trade business													stock/commodity trade
090109	other financial business													other financial business
090201	traveling service													traveling service
100101	movie production and delivery service													movie production and delivery service
100102	movie theatre													movie theatre
120101	auto mobile practical training													auto mobile practical training
120102	software service													software service
130101	hospital													hospital
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
140101	hotel													hotel

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																						information processing
	service																						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