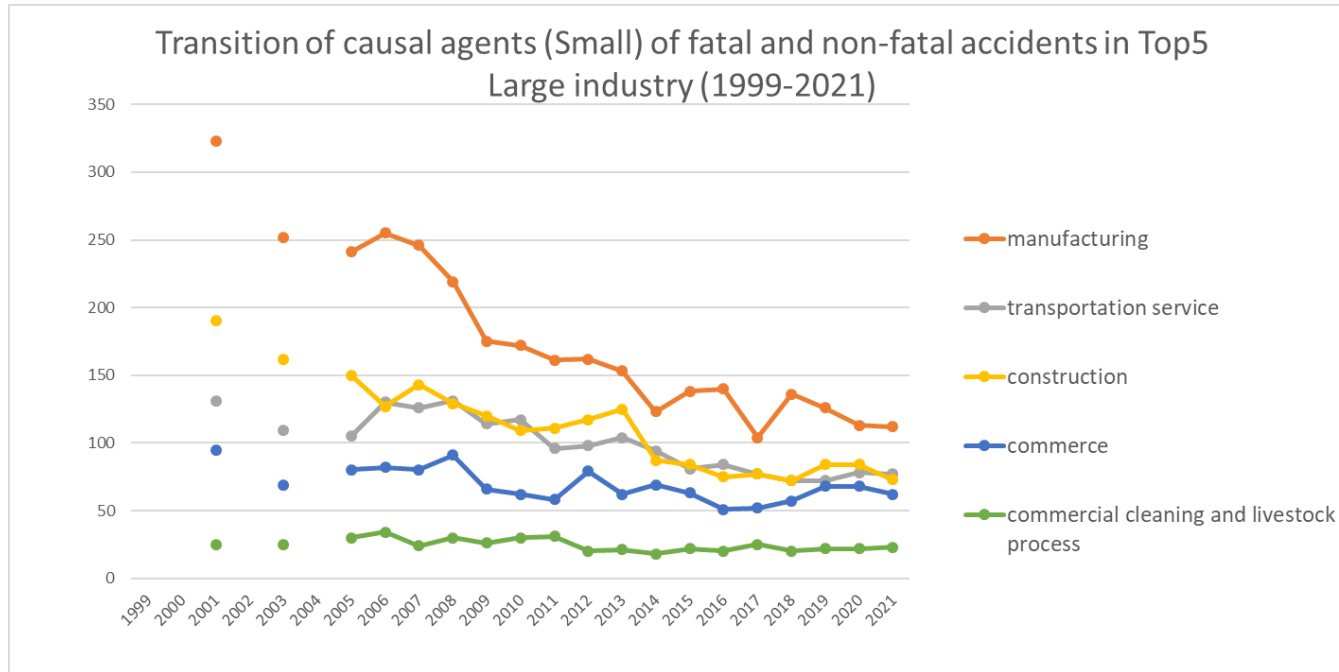
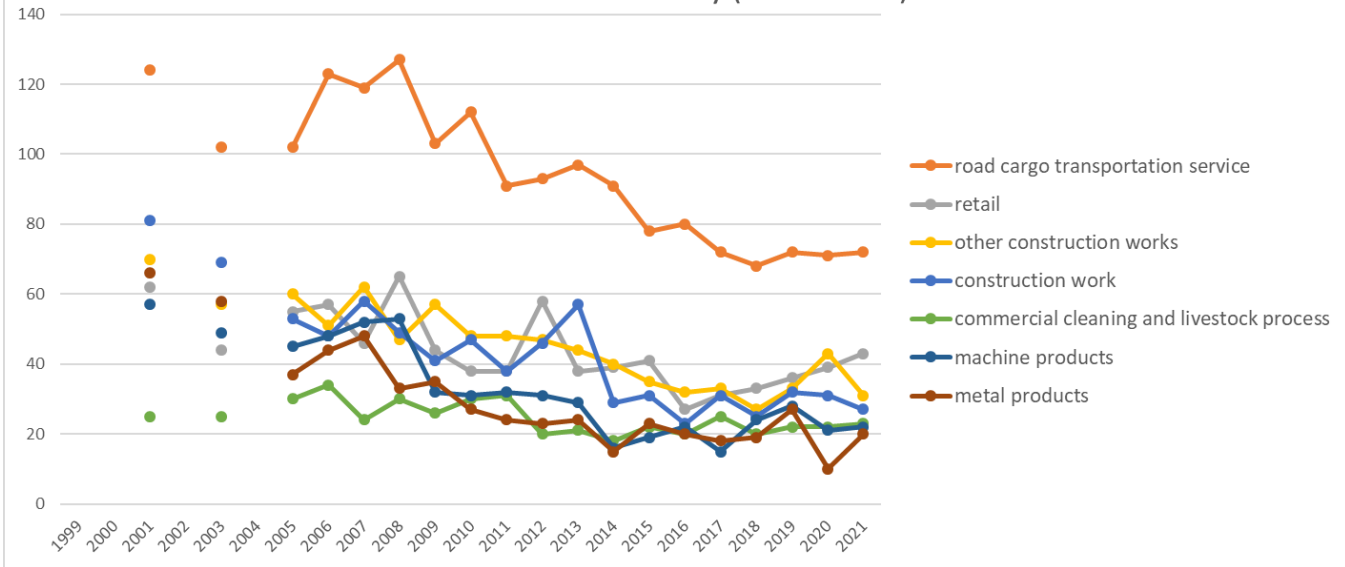


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 612 machine/equipment as load (1999-2021)



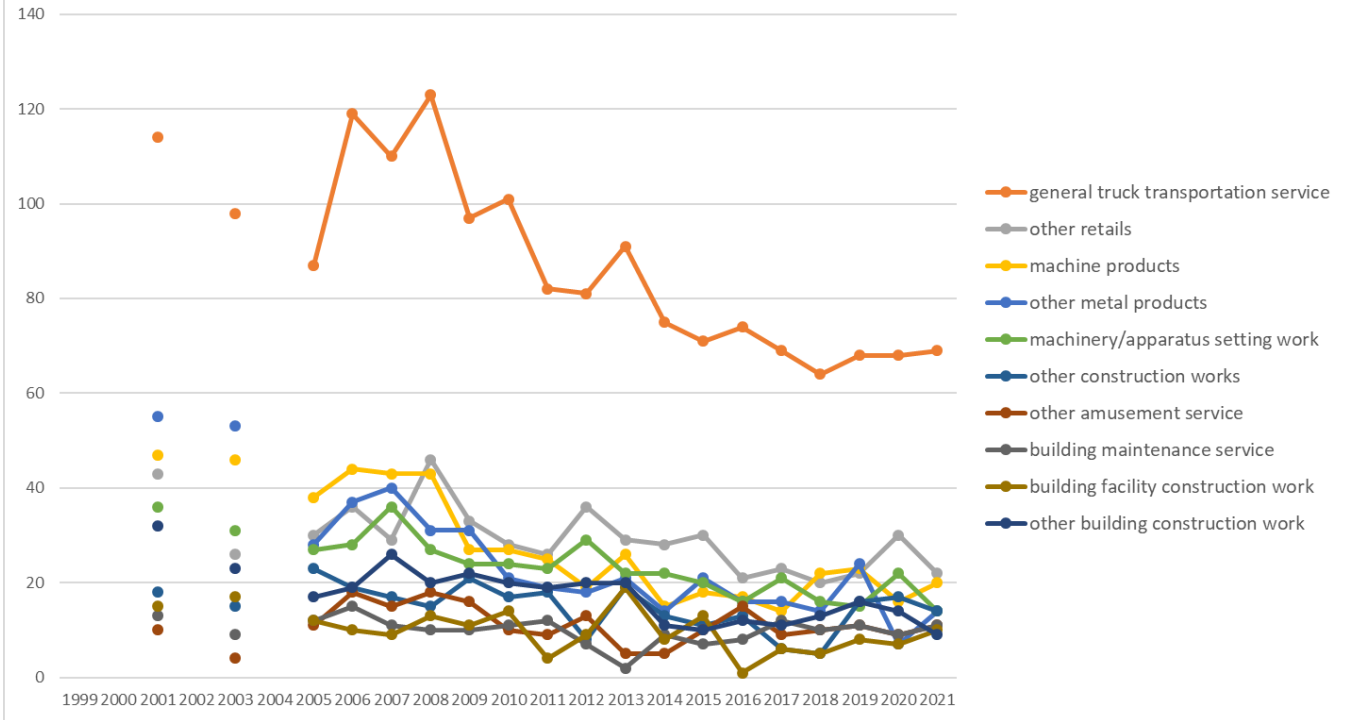
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 612 machine/equipment as load in Large industry (1999-2021)

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. 612 machine/equipment as load 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. 612 machine/equipment as load in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 612 machine/equipment as load 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			323		252		241	255	246	219	175	172	161	162	153	123	138	140	104	136	126	113	112	3,351	manufacturing
04	transportation service			131		109		105	130	126	131	114	117	96	98	104	94	81	84	77	72	72	78	77	1,896	transportation service
03	construction			190		162		150	127	143	129	120	109	111	117	125	87	84	75	77	72	84	84	73	2,119	construction
08	commerce			95		69		80	82	80	91	66	62	58	79	62	69	63	51	52	57	68	68	62	1,314	commerce
15	commercial cleaning and livestock process			25		25		30	34	24	30	26	30	31	20	21	18	22	20	25	20	22	22	23	468	commercial cleaning and livestock process
14	hotel/restaurant/amusement service			24		19		26	32	29	26	28	22	17	29	17	15	21	27	15	19	18	21	16	421	hotel/restaurant/amusement service

13	health and hygiene service			11		10		6	7	17	11	11	13	13	8	9	8	9	11	5	8	15	9	11	192	health and hygiene service
17	others			39		43		44	23	25	27	23	36	23	50	33	24	25	27	27	27	32	24	10	562	others
05	cargo handling service			8		8		9	10	11	11	11	9	6	12	9	8	8	5	6	6	7	6	3	153	cargo handling service
07	livestock/fishery			6		9			2	1	1	2	1	1	4	3	3	2	2	2	1	1	2	3	46	livestock/fishery
11	telecommunication service							4	2	3	2	1	3		1			1	1					3	21	telecommunication service
12	education/research service			3		2		2	4	2	2	3	4	3	4	1	1	1	2	1	3	8	1	1	48	education/research service
06	agriculture			1		1		3	2	1	1	1	5	2	2	3	5	1	3	5	1	4	2	1	44	agriculture
09	financial business/advertisement			2		2		3			2	1	4	3	1	1	2					2	1	1	25	financial business/advertisement
02	mining			3		1			1	1		1	1			1		1						1	11	mining
10	movie/play service			1		1		2	1	1			2	3	1	1	1	2	3			2			21	movie/play service
16	public office							1	1			3			1						1				7	public office
	total			862		713		706	713	710	683	586	590	528	589	543	458	459	451	396	423	461	431	397	10,699	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 612 machine/equipment as load 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
0403	road cargo transportation service			124		102		102	123	119	127	103	112	91	93	97	91	78	80	72	68	72	71	72	1,797	road cargo transportation service
0802	retail			62		44		55	57	46	65	44	38	38	58	38	39	41	27	31	33	36	39	43	834	retail
0303	other construction works			70		57		60	51	62	47	57	48	48	47	44	40	35	32	33	27	33	43	31	865	other construction works
0302	construction work			81		69		53	48	58	49	41	47	38	46	57	29	31	23	31	25	32	31	27	816	construction work
1501	commercial cleaning and livestock process			25		25		30	34	24	30	26	30	31	20	21	18	22	20	25	20	22	22	23	468	commercial cleaning and livestock process
0113	machine products			57		49		45	48	52	53	32	31	32	31	29	16	19	22	15	24	28	21	22	626	machine products
0112	metal products			66		58		37	44	48	33	35	27	24	23	24	15	23	20	18	19	27	10	20	571	metal products

0301	civil engineering work			39		36			37	28	23	33	22	14	25	24	24	18	18	20	13	20	19	10	15	438	civil engineering work
0101	food products			29		21			28	22	23	17	21	22	19	16	26	16	21	20	15	16	16	22	14	384	food products
0117	other manufacturing			43		30			31	23	32	26	22	29	30	29	16	13	22	19	14	21	10	13	12	435	other manufacturing
0115	transport equipment products			27		28			30	37	33	26	22	21	12	14	16	18	16	18	11	18	8	13	12	380	transport equipment products
0114	electrical equipment products			21		14			23	21	18	20	7	9	15	14	14	14	10	14	7	18	10	10	11	270	electrical equipment products
1403	other amusement service			12		9			14	20	17	20	18	11	11	17	7	7	11	16	10	13	11	10	11	245	other amusement service
1702	others			39		38			44	23	25	24	22	35	21	49	31	23	24	26	27	27	28	22	10	538	others
0804	other commerce			15		12			11	14	10	12	13	11	5	11	9	11	9	9	10	11	15	8	10	206	other commerce
0801	wholesale			18		13			14	11	24	14	9	12	14	10	15	18	12	15	11	12	16	19	9	266	wholesale
0108	chemical products			26		18			15	21	9	8	17	10	12	18	13	15	8	6	6	4	10	4	9	229	chemical products
1302	social welfare facility			7		5			4	5	7	9	8	12	9	5	8	4	4	4	2	4	11	8	6	122	social welfare facility
1301	medical treatment service			4		4			1	1	9	2	3	1	4	3	1	4	5	7	3	4	4	1	5	66	medical treatment service
0110	steel making			12		7			10	8	4	6	2	2	5	3	1	1	5	5	4	4	5	3	4	91	steel making
0501	land cargo handling service			2		7			9	9	10	10	5	7	5	10	7	7	7	3	6	5	6	5	3	123	land cargo handling service
1401	hotel			2		5			7	3	9	4	4	2	3	5	5	2	1	5	2	2	2	4	3	70	hotel
0702	fishery			3		7							1			3	2		1	1	1		1	2	3	25	fishery
1101	telecommunication service								4	2	3	2	1	3		1			1	1					3	21	telecommunication service
0109	sand and stone products			6		10			8	11	13	9	2	3	4	4	6	8	6	6	2	2	2	7	2	111	sand and stone products
1402	restaurant			10		5			5	9	3	2	6	9	3	7	5	6	9	6	3	4	5	7	2	106	restaurant
0402	road passenger transport service			2		3			2	4	5	3	11	4	4	4	5	3	1	3	2	2		5	2	65	road passenger transport service

0111	nonferrous metal making			11				1	3	1	1	3	3	1	3	1		1	3	4	1	3	4	2	46	nonferrous metal making
0401	railroad/water transportation/airline service			5		2			3		1			1	1	1		1	1	3	2		2	2	25	railroad/water transportation/airline service
1201	education/research service			3		2		2	4	2	2	3	4	3	4	1	1	1	2	1	3	8	1	1	48	education/research service
0107	printing/bookbinding			4		3		3	3	3	4	3	3	1	2	2	1	4	2	2	3		2	1	46	printing/bookbinding
0106	pulp/paper processing products			5		5			5	3	3		6	4	2	2	2		1	2	3			1	44	pulp/paper processing products
0104	wood products			2		2		3	2	3	3	3	2			1	2	1	2			2	3	1	32	wood products
0601	agriculture							2	2			1	3	1	1	3	5	1	2	4	1	3	2	1	32	agriculture
0116	electric/gas/water service			3					1	1	1	3	1		1						1	1		1	14	electric/gas/water service
0902	advertisement and mediator			2		1		2			1	1	1		1		2					2		1	14	advertisement and mediator
0404	other transportation service					2		1		2			1			1		1						1	9	other transportation service
0202	quarrying			2		1				1			1		1		1							1	8	quarrying
0102	textile products			3		2		3	4	1	4			2	1	1	1		1	2	2	3			30	textile products
0502	harbor transportation service			6		1			1	1	1	6	2	1	2	2	1	1	2		1	1	1		30	harbor transportation service
0105	furniture			6		4		2	1	2	4	2	1			1	1		2		1	1			28	furniture
1701	dispatch service					5					3	1	1	2	1	2	1	1	1			4	2		24	dispatch service
0701	livestock			3		2			2	1	1	1	1	1	1	1	3	1	1	1	1				21	livestock
1001	movie/play service			1		1		2	1	1			2	3	1	1	1	2	3			2			21	movie/play service
0103	fiber products			2		1		2	1		1	1	2		1	1		1	1						14	fiber products

080109	other wholesale			15		12		14	11	24	11	9	10	14	9	14	18	11	15	10	12	14	18	9	250	other wholesale
080409	other commerce			15		10		11	14	8	10	11	10	5	9	5	10	9	7	9	7	14	5	9	178	other commerce
080202	auto mobile retail			2		2		7	5	4	5	1	3	2	5	1	2	1	1	3	6	2	1	8	61	auto mobile retail
170209	others			34		34		42	21	19	21	17	33	20	46	26	18	21	21	20	23	26	19	7	468	others
011502	auto mobile products			13		18		20	19	19	15	13	13	6	10	10	12	10	12	7	9	6	6	7	225	auto mobile products
030199	other civil engineering work			15		15		18	15	14	17	12	9	14	12	10	13	7	8	11	11	6	3	6	216	other civil engineering work
011409	other electrical equipment			11		6		7	13	6	9	4	5	7	7	7	6	7	8	3	8	6	5	6	131	other electrical equipment
150102	industrial waste management service			5		7		6	7	6	8	11	10	7	9	9	4	9	6	6	6	3	6	6	131	industrial waste management service
130201	social welfare facility			7		5		4	5	7	9	8	12	9	5	8	4	4	4	2	4	11	8	6	122	social welfare facility
080201	all kinds of retail			9		11		10	9	10	7	4	2	3	9	4	6	6	3	1	3	3	4	6	110	all kinds of retail
080204	fuel retail			6		3		5	4	3	2	3	4	3	5	1	2	2	1	2	1	6	1	6	60	fuel retail
030201	steel frame/reinforced concrete house construction work			16		18		15	13	12	10	4	7	8	7	11	7	6	9	8	4	3	6	5	169	steel frame/reinforced concrete house construction work
010109	other foods			9		9		12	7	11	7	7	10	10	9	12	5	9	4	4	7	4	10	5	151	other foods
011709	other manufacturing			13		5		7	8	9	7	9	16	8	12	7	2	5	9	2	8	3	7	5	142	other manufacturing
010805	plastics products			16		7		7	8	5	4	6	5	5	9	7	6	3	5	2	3	3	1	5	107	plastics products
030106	road construction work			8		4		5	1	3	4	3	4	5	3	8		2	4	1	2	3	3	5	68	road construction work
011701	auto mobile servicing			15		12		6	9	11	6	6	6	9	8	5	4	7	5	4	4	5	3	4	129	auto mobile servicing
010102	fishery products			10		4		6	7	5		4	3	1	2	3	3	2	7	1	4	3	6	4	75	fishery products
011203	metal press products			8		4		8	5	8		2	6	3	3	3	1	1	3	1	5	2	3	4	70	metal press products
150103	other waste disposal service			3		5		6	7		5	3	3	7	1	5	2	3	3	5	3	1	2	4	68	other waste disposal service
011702	machine repair			13		13		17	6	12	13	6	7	13	9	4	6	10	4	6	5	1	2	3	150	machine repair
030301	electricity/telecommunication work			16		11		10	4	9	5	12	7	7	10	3	5	4	3	6	6	2	4	3	127	electricity/telecommunication work
050101	land cargo handling service			2		7		9	9	10	10	5	7	5	10	7	7	7	3	6	5	6	5	3	123	land cargo handling service

011202	screw products			1						1				1								2	6	screw products		
011501	ship building			5		6		5	14	9	4	7	7	6	4	2	1	4	2	3	4		5	1	89	ship building
010104	bread/cake products			5		2		5	2	5	4	6	2	5	3	7	4	4	2	4	2	2	4	1	69	bread/cake products
011305	other precision machine products			7		2		7	2	5	5	2	2	7	7	3		1	4	1	1	3	4	1	64	other precision machine products
010901	cement products			2		5		4	5	6	2	1	1	1	2	1	4	4	3	1	1		4	1	48	cement products
120109	other education/research service			3		1		2	4	1		2	4	3	3	1	1	1	2	1	3	7		1	40	other education/research service
080203	furniture/fittings retail			2		1		3	2		5	3		4	3	3	1	1	1	2	2	2	3	1	39	furniture/fittings retail
010701	printing service			3		3		3	2	1	3	3	3	1	2	2		3	2	2	3		1	1	38	printing service
010899	other chemical products			6		3		3	1			1	1	1	4	2	3	1	1	2		2	1	1	33	other chemical products
040201	taxi service			1		1		2	2	4	1	4	3	1	3	1	2		2	1			4	1	33	taxi service
060101	agriculture							2	2			1	3	1	1	3	5	1	2	4	1	3	2	1	32	agriculture
040202	bus service			1		2			2	1	2	7	1	3		3	1	1	1	1	2		1	1	30	bus service
080401	warehousing					2				2	2	2	1		2	4	1		2	1	4	1	3	1	28	warehousing
010602	paper processing products			1		3			2	1	3		4	3	2	1			1	1	2			1	25	paper processing products
011001	steel/iron/rolling products			2		2		2		2	4	1		1				1	1	3	2	2		1	24	steel/iron/rolling products
010801	non organic or organic chemical products			1		2		1	3	4		4		1			1	2			1			1	21	non organic or organic chemical products
010409	other lumber and wood products			1		2		1	1	1	1	3	1			1	1		2			1	1	1	18	other lumber and wood products
070209	other fishery			2		5									2	1		1	1	1		1	2	1	17	other fishery
011303	optical instruments			1		1			1	2	3		1		2		1		1			1		1	15	optical instruments
090209	other advertisement and mediator			2		1		2			1	1	1		1		2					2		1	14	other advertisement and mediator
011503	railway vehicle products			2				1		1	2	1						1					2	1	11	railway vehicle products
040303	cargo/ light automobile							1	2			1	2	2		1	1							1	11	cargo/ light automobile

	transportation service																							transportation service		
010903	pottery products						1	2	1	1	1										1	2	1	10	pottery products	
040409	other transportation service				2		1		2			1			1		1					1	9	other transportation service		
020201	quarrying			1		1				1				1									1	6	quarrying	
010106	soft drinks			1			1		1														1	4	soft drinks	
011601	electric utility service			1					1					1									1	4	electric utility service	
030102	tunnel construction work						1										2						1	4	tunnel construction work	
030108	sand collapse prevention civil engineering work						1			1							1						1	4	sand collapse prevention civil engineering work	
040302	specific truck transportation service			6		4		6	2	4	3	2	6	4	7	3	9	7	1	3	1	3	3		74	specific truck transportation service
010806	rubber products			2		4		2	7		3	1	1	4	5	2	3			2		3	1		40	rubber products
010909	other sand and stone products			3		4			2	4	4		1	3	2	2	3	1	2			1	1		33	other sand and stone products
011402	electrical appliance			3		2		5	1	3	4			4	2	3	1		2	1	1	1			33	electrical appliance
010103	agricultural food products			1		1		4	4				2			2	1	1	2	4	2	2	2		28	agricultural food products
140301	golf course			1		3		2	2	2	1	2	1	2	3	2	2	1	1	1	2				28	golf course
011009	other steel products			5		2		3	3		2		1	1	1			3		1	1	2	1		26	other steel products
030104	railway construction work			2		4		1	2		2				1				3	2		3	4		24	railway construction work
030109	land consolidation civil engineering work			3		2		1	3	3		1		2	3	1	1				2	1	1		24	land consolidation civil engineering work
170101	dispatch service					5					3	1	1	2	1	2	1	1	1			4	2		24	dispatch service
050202	port cargo handling service			6		1			1	1		3	1		2	1	1	1	1		1	1	1		22	port cargo handling service
070101	livestock			3		2			2	1	1	1	1	1	1	1	3	1	1	1	1				21	livestock
011302	measuring instruments			2					1	2	2	3	1		3						1	1	1		17	measuring instruments
011102	nonferrous metals casting products			4				1		1			2		2			1		1	1	1	1		15	nonferrous metals casting products

010209	other textile products			1	1	1	2		2			1	1	1			2	2			14	other textile products	
011703	cleaning			2		1			1				1		1	2	4	1	1		14	cleaning	
030107	river civil engineering work			1	2	2	1		1	1			1	1				3	1		14	river civil engineering work	
100109	other movie/play service			1	1	2				1	2	1	1		2	2			1		14	other movie/play service	
140209	other restaurants			1		1	2	1		1				2	3			1	1	1		14	other restaurants
011109	other nonferrous metal products			5			1		1	2		1				1	1		1		13	other nonferrous metal products	
011204	metal plating products			2		1	1		1	2		2	1			1	1		1		13	metal plating products	
010105	alcoholic drinks				1					1	4	2	1				3				12	alcoholic drinks	
030105	bridge construction work			1		2		1				2			1	1	1	1		1	1	12	bridge construction work
170202	information processing service				1			2			1		1	2	1	1			2	1		12	information processing service
010501	wood furniture			4				1	2		1			1					1	1		11	wood furniture
010609	other pulp/paper processing products			3	1		2				1	1			2			1			11	other pulp/paper processing products	
010509	other furniture			1	3	1			1	1					1		2				10	other furniture	
090103	insurance business				1	1			1		3	3								1		10	insurance business
080102	furniture/fittings wholesale			1					2		1		1			1		1	1		9	furniture/fittings wholesale	
010309	other fiber products			2	1	1	1		1			1				1					8	other fiber products	
010401	lumbering					1	1	1	2						1				1	1		8	lumbering
010601	pulp/paper			1	1		1	2			1			1			1				8	pulp/paper	
010902	glass products			1		1	1	2						2		1					8	glass products	
010905	other ceramic products				1	1	1				1			1	1		1	1			8	other ceramic products	
011602	city gas service			2			1			2	1							1	1		8	city gas service	
030111	port/seaside construction work				2					1				1			1		1	1	1	8	port/seaside construction work
060201	lumbering				1	1		1			1	1	1				1	1			8	lumbering	

011704	tobacco products																							tobacco products		
020109	other coal mining																							other coal mining		
020209	other quarrying																							other quarrying		
020301	metal mining																							metal mining		
020302	petroleum mining																							petroleum mining		
090102	stock/commodity trade business																							stock/commodity trade business		
090109	other financial business																							other financial business		
090201	traveling service																							traveling service		
100102	movie theatre																							movie theatre		
120101	auto mobile practical training																							auto mobile practical training		
150104	cremation service																							cremation service		
	total			862		713		706	713	710	683	586	590	528	589	543	458	459	451	396	423	461	431	397	10,699	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