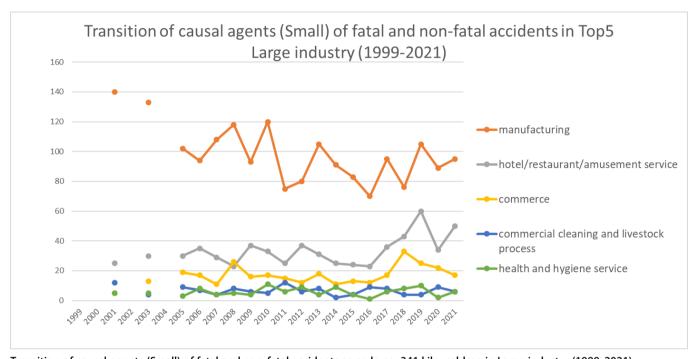
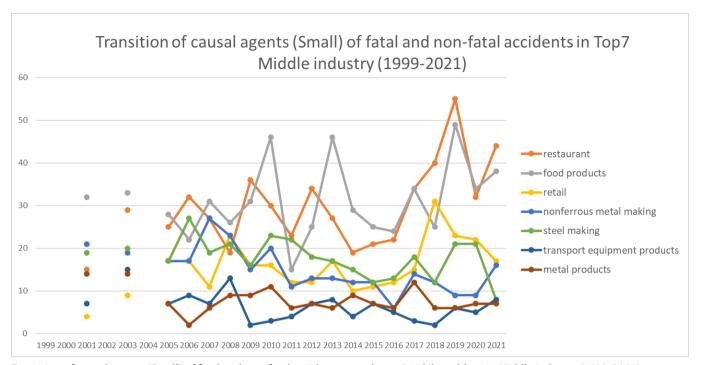
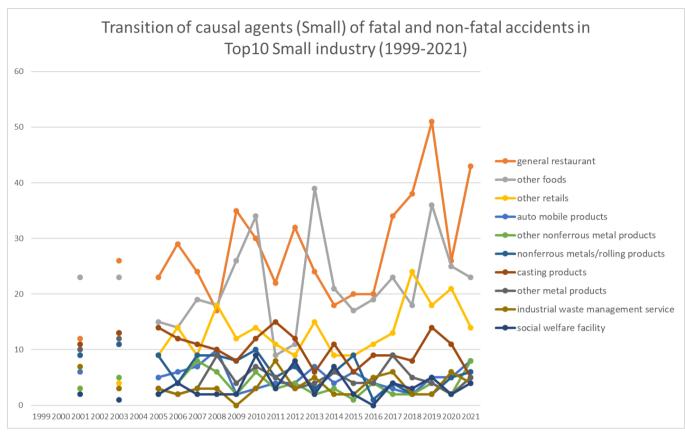
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 341 kiln, caldron (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 341 kiln, caldron in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 341 kiln, caldron in Middle Industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 341 kiln, caldron in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 341 kiln, caldron 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			140		133		102	94	108	118	93	120	75	80	105	91	83	70	95	76	105	89	95	1,872	manufacturing
14	hotel/restaurant/amusement service			25		30		30	35	29	23	37	33	25	37	31	25	24	23	36	43	60	34	50	630	hotel/restaurant/amusement service
08	commerce			5		13		19	17	11	26	16	17	15	12	18	11	13	12	17	33	25	22	17	319	commerce
15	commercial cleaning and livestock process			12		4		9	7	4	8	6	5	12	6	8	2	4	9	8	4	4	9	6	127	commercial cleaning and livestock process
13	health and hygiene service			5		5		3	8	4	5	4	11	6	9	4	9	4	1	6	8	10	2	6	110	health and hygiene service
03	construction			11		12		10	12	8	3	10	7	6	2	5	5	11	3	6	3	8	11	3	136	construction

17	others		3	1	3	4	3	1	3		3	3		1	2			3	1	4	1	36	others
04	transportation service		1	1	2		1		1			2	2	1	3				1		1	16	transportation service
12	education/research service		2	2	3	2	3	1	2		2			1			1					19	education/research service
05	cargo handling service		1	1		1	1															4	cargo handling service
06	agriculture									1						1			1	1		4	agriculture
16	public office			1		2	1															4	public office
02	mining						1								1							2	mining
07	livestock/fishery												1									1	livestock/fishery
09	financial								1													1	financial
	business/advertisement								<u> </u>													•	business/advertisement
10	movie/play service																						movie/play service
11	telecommunication service																						telecommunication service
	total		205	203	181	182	174	185	173	194	144	151	174	146	145	119	169	170	215	172	179	3,281	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 341 kiln, caldron 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
1402	restaurant			15		29		25	32	27	19	36	30	23	34	27	19	21	22	34	40	55	32	44	564	restaurant
0101	food products			32		33		28	22	31	26	31	46	15	25	46	29	25	24	34	25	49	34	38	593	food products
0802	retail			4		9		17	17	11	23	16	16	12	12	17	10	11	12	15	31	23	22	17	295	retail
0111	nonferrous metal making			21		19		17	17	27	23	15	20	11	13	13	12	12	6	14	12	9	9	16	286	nonferrous metal making
0110	steel making			19		20		17	27	19	21	16	23	22	18	17	15	12	13	18	12	21	21	8	339	steel making
0115	transport equipment products			7		15		7	9	7	13	2	3	4	7	8	4	7	5	3	2	6	5	8	122	transport equipment products
0112	metal products			14		14		7	2	6	9	9	11	6	7	6	9	7	6	12	6	6	7	7	151	metal products
	commercial cleaning and livestock																									commercial cleaning

1501	process	12	4	9	7	4	8	6	5	12	6	8	2	4	9	8	4	4	9	6	127	and livestock process
0117	other manufacturing	6	4	1	1		4	3		3		2	2	1	4	2	2	1	1	5	42	other manufacturing
0113	machine products	5	11	4	1	6	3	1	6	2	2	1	7	6	1	2	4		4	4	70	machine products
1302	social welfare facility	2	1	2	4	2	2	2	9	3	8	2	7	2		4	3	5	2	4	64	social welfare facility
1401	hotel	2	1	4	2		1		2			4	5	2		1	1	4	2	4	35	hotel
0108	chemical products	10	2	5	1	3	7	3	4	4	1	4	6	3	3	2	4	4	4	2	72	chemical products
0302	construction work	6	4	7	6	3	1	2	2	4	1	1	2	3		3	1	2	5	2	55	construction work
1301	medical treatment service	2	4	1	3	1	3	2	2	3	1	2	2	2	1	2	5	5		2	43	medical treatment
1403	other amusement service	8		1	1	2	3	1	1	2	3		1	1	1	1	2	1		2	31	other amusement service
0114	electrical equipment products		3	1	2	1	1	1	1	1	2	2	1	2	1		3	4	2	2	30	electrical equipment products
0105	furniture	1	1	1	2	1		2	2							2	3			2	17	furniture
0303	other construction works	4	7	3	4	5	1	7	5	1	1	3	3	8	3	2	2	6	5	1	71	other construction works
1702	others	3	1	3	4	1	1	3		3	3		1	2			3	1	4	1	34	others
0102	textile products	3	1	1	2	1	1					1			2	2		1		1	16	textile products
0103	fiber products	1			1			1												1	4	fiber products
0107	printing/bookbinding	1	1																	1	3	printing/bookbinding
0404	other transportation service																			1	1	other transportation service
0109	sand and stone products	12	4	4	5	3	4	5	3	5	3	5	5	8	4	2	1	2	1		76	sand and stone products
0104	wood products	6	5	8	1	2	3	2	1	2	2		1		1	2	1	2			39	wood products
1201	education/research service	2	2	3	2	3	1	2		2			1			1					19	education/research service

0801	wholesale		1	3	2			3			2		1	1			1	2	2		18	wholesale
0301	civil engineering work		1	1		2		1	1		1		1				1			1	10	civil engineering wor
0403	road cargo transportation service			1	1		1		1			2	1		1				1		9	road cargo transportation service
0106	pulp/paper processing products		1		1	1	1	1	1									1		1	8	pulp/paper processii products
0401	railroad/water transportation/airline service		1										1	1	2						5	railroad/water transportation/airlin service
0116	electric/gas/water service		1					2	1												4	electric/gas/water service
0501	land cargo handling service		1	1		1	1														4	land cargo handling
0804	other commerce			1							1				1		1				4	other commerce
1601	public office			1		2	1														4	public office
0601	agriculture									1						1			1		3	agriculture
1303	other health and hygiene service		1			1	1														3	other health and hygiene service
0202	quarrying						1								1						2	quarrying
0803	haircut/beauty salon									1					1						2	haircut/beauty salo
1701	dispatch service						2														2	dispatch service
0402	road passenger transport service				1																1	road passenger transport service
0602	forestry																			1	1	forestry
0701	livestock												1								1	livestock
0902	advertisement and mediator								1												1	advertisement and

0201	coal mining																						coal mining
0203	other mining																						other mining
0502	harbor transportation service																						harbor transportation
0302	naibor dansportation service																						service
0702	fishery																						fishery
0901	financial business																						financial business
1001	movie/play service																						movie/play service
1101	tolocomonication comica																						telecommunication
1101	telecommunication service																						service
	total		205	203	181	182	174	185	173	194	144	151	174	146	145	119	169	170	215	172	179	3,281	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 341 kiln, caldron 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
140201	general restaurant			12		26		23	29	24	17	35	30	22	32	24	18	20	20	34	38	51	26	43	524	general restaurant
010109	other foods			23		23		15	14	19	18	26	34	9	11	39	21	17	19	23	18	36	25	23	413	other foods
080209	other retails			3		4		9	14	9	18	12	14	11	9	15	9	9	11	13	24	18	21	14	237	other retails
011502	auto mobile products			6		13		5	6	7	10	2	3	4	4	7	4	6	4	3	2	5	5	8	104	auto mobile products
011109	other nonferrous metal products			3		5		2	4	8	6	2	6	3	4	2	3	1	4	2	2	4	2	8	71	other nonferrous metal products
011101	nonferrous metals/rolling products			9		11		9	4	9	9	8	10	5	7	3	6	9	1	4	2	2	5	6	119	nonferrous metals/rolling products
011002	casting products			11		13		14	12	11	10	8	12	15	12	6	11	6	9	9	8	14	11	5	197	casting products
011209	other metal products			10		12		3	2	3	9	4	7	5	3	4	6	4	4	9	5	4	2	5	101	other metal products
150102	industrial waste management service			7		3		3	2	3	3		3	8	3	5	2	2	5	6	2	2	6	4	69	industrial waste management service
130201	social welfare facility			2		1		2	4	2	2	2	9	3	8	2	7	2		4	3	5	2	4	64	social welfare facility

011301	machine products		5	10	4	1	5	2	1	5	2	2	1	7	5	1	2	3		3	4	63	machine products
010104	bread/cake products		3	3	2	3	3	4	1	2	2	3		5	3	1	4	3	3	3	4	52	bread/cake products
010102	fishery products		2	2	7	1	4	1		3	1	6	4	1	2		3	2	4	4	4	51	fishery products
140101	hotel		2	1	4	2		1		2			4	5	2		1	1	4	2	4	35	hotel
011001	steel/iron/rolling products		6	5	2	11	8	8	8	9	5	5	10	2	4	4	7	2	7	9	3	115	steel/iron/rolling products
080201	all kinds of retail			4	8	3	2	4	4	2	1	3	1	1	2	1	2	7	5	1	3	54	all kinds of retail
011102	nonferrous metals casting products	!	9	3	6	9	10	8	5	4	3	2	8	3	2	1	8	8	3	2	2	96	nonferrous metals casting products
011204	metal plating products		2	1	4		3		4	4		3	2	3	3	1	2		1	4	2	39	metal plating products
130101	hospital			3		3	1	3	2	2	1	1	2	2	2	1	2	5	5		2	37	hospital
010101	meat/dairy products		1	2	1	4	3	1		3		2	2	2	1	1	3	2	2	1	2	33	meat/dairy products
011709	other manufacturing		2	3				2	3		3			2	1	3	2	1	1	1	2	26	other manufacturing
150103	other waste disposal service		1		3	2		3	2	1			1			3		2		2	2	22	other waste disposal service
140309	other amusement service		1		1		2	2	1	1	1	2		1	1		1	2	1		2	19	other amusement service
010105	alcoholic drinks		1	3			1		1							1	1		2	1	2	13	alcoholic drinks
010501	wood furniture		1	1	1	2			2									3			2	12	wood furniture
010106	soft drinks						1	1	1												2	5	soft drinks
011703	cleaning					1															2	3	cleaning
030309	other construction works		3	6	2	2	4	1	2	3	1	1	2	2	7	1	1	1	2	2	1	44	other construction works
140209	other restaurants		3	3	2	3	3	2	1		1	2	3	1	1	2		2	4	6	1	40	other restaurants
170209	others		3	1	3	4	1	1	3		3	3		1	2			3	1	4	1	34	others
010103	agricultural food products		2		3			1	2	4	3	3	1		2	2			2		1	26	agricultural food products
010899	other chemical products	ŀ	4					1		1	1		1	1		2		1	1	1	1	15	other chemical products
	electronics equipment and																						electronics equipment and
011403	telecommunications			2	1	2					1		1		1			1	2	1	1	13	telecommunications
	apparatus																						apparatus
011409	other electrical equipment			1			1		1	1		2		1	1			2			1	11	other electrical equipment

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030202	wooden house construction	2		1		1	2				2								1	1	1	11	wooden house construction
	work																						work
	building facility construction																						building facility construction
030203	work	1				2						1	1		1		1		1	2	1	11	work
010204	dyeing	2	_		1	2							1			2	1				1	10	dyeing
011701	auto mobile servicing	4						1								1					1	7	auto mobile servicing
010803	pharmaceuticals				1		1										1	1			1	5	pharmaceuticals
010309	other fiber products	1				1			1												1	4	other fiber products
010701	printing service	1																			1	2	printing service
040409	other transportation service																				1	1	other transportation service
010902	glass products	2		3	3	1	1	1	1	2	1	1	1		6	1	1	1	1			27	glass products
011009	other steel products	2		2	1	4		3		2	2	1	1	2	2		2	2		1		27	other steel products
	machinery/apparatus setting																						machinery/apparatus setting
030302	work	1		1	1	2	1		5	2			1	1	1	2	1	1	4	3		27	work
		_	_ _		1												╫				╬		
010909	other sand and stone	6				3	2	3	1		2	2	2	2	2				1			26	other sand and stone
	products																						products
	other building construction																						other building construction
030209	work	3		2	6	3	1		2	1	2			1	2		2			1		26	work
		_						1									1						
010409	other lumber and wood	3		2	4	1		2	1	1	2	2		1					1			20	other lumber and wood
	products																						products
	non organic or organic																						non organic or organic
010801	chemical products	3		2	1			2	2	2	2				1	1	1	1	1	1		20	chemical products
	<u> </u>	_																					<u> </u>
120109	other education/research	2		2	3	2	3	1	2		2			1			1					19	other education/research
	service																						service
	other cleaning and livestock																						other cleaning and livestock
150109	process service	3		1	1	1	1		3		1	2	2		1	1				1		18	process service
080109	other wholesale	1		3	2			3			2		1	1			1	2	1			17	other wholesale
		_																			1		

010401 lumbering			3		2	4		1	1	1							1	2		1		16	lumbering
other transport equipment products			1		2		3		2				3	1		1	1			1		15	other transport equipment products
150101 building maintenance servi	ce					1	2		1	1	1	3	1			1		1		2		14	building maintenance service
010804 petroleum/coal products						1		1	1					1	1	1			1	1	1	9	petroleum/coal products
010805 plastics products			1			2	1			1		1		1		1				1		9	plastics products
010806 rubber products			1						1		1			1	4							8	rubber products
140302 park and amusement park			5				1					1	1									8	park and amusement park
010903 pottery products			2			1					1	2		1								7	pottery products
steel frame/reinforced 030201 concrete house constructio work	n				1	1			1		1				1				1		1		steel frame/reinforced concrete house construction work
040301 general truck transportatio	ו				1	1		1		1			2							1		7	general truck transportation service
010209 other textile products			1		1			1	1									1		1		6	other textile products
010904 fire resisting products										3					2		1					6	fire resisting products
011203 metal press products			1							1		1	1					1	1			6	metal press products
011702 machine repair					1	1			1					2					1			6	machine repair
030199 other civil engineering wor	(1		2		1			1									1	6	other civil engineering work
010809 chemical fertilizer products								1	2				1								1	5	chemical fertilizer products
010901 cement products			1											1	1		1				1	5	cement products
010905 other ceramic products			1		1		1										1	1				5	other ceramic products
010601 pulp/paper			1							1									1		1	4	pulp/paper
other precision machine products									1		1					1					1	4	other precision machine products
011401 heavy electrical equipment																	1			2	1	4	heavy electrical equipment
011602 city gas service			1						2	1												4	city gas service
· · · · · · · · · · · · · · · · · · ·	- 11	**	**	- 1				- 4				1.6	- 11										

030106	road construction work		1						1			1				1				4	road construction work
040103	airline service											1	1	2						4	airline service
050101	land cargo handling service		1	1		1	1													4	land cargo handling service
080409	other commerce			1							1			1		1				4	other commerce
130109	other medical treatment service		2	1							1									4	other medical treatment service
140301	golf course		2					1							1					4	golf course
150104	cremation service		1		1			1								1				4	cremation service
160101	public office			1		2	1													4	public office
010402	plywood			1			1										1			3	plywood
010509	other furniture									1						2				3	other furniture
010602	paper processing products				1		1	1												3	paper processing products
011202	screw products		1												1			1		3	screw products
011501	ship building				2			1												3	ship building
060101	agriculture									1					1			1		3	agriculture
130301	bathhouse		1			1	1													3	bathhouse
010503	fittings						1			1										2	fittings
011201	western tableware/cutting tool products			1															1	2	western tableware/cutting tool products
011302	measuring instruments						1										1			2	measuring instruments
011402	electrical appliance							1				1								2	electrical appliance
020201	quarrying						1							1						2	quarrying
040302	specific truck transportation service											1		1						2	specific truck transportation service
080204	fuel retail			1				1												2	fuel retail
080301	haircut									1				1						2	haircut
130102	general clinic				1						1									2	general clinic

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170101	dispatch service							2									2	dispatch service
010609	other pulp/paper processing products						1										1	other pulp/paper processing products
010709	other printing and			1													1	other printing and bookbinding
010807	leather products		1														1	leather products
011303	optical instruments			1													1	optical instruments
040101	railroad service		1														1	railroad service
040202	bus service					1											1	bus service
060201	lumbering															1	1	lumbering
070101	livestock										1						1	livestock
080101	all kinds of wholesale														I		1	all kinds of wholesale
080202	auto mobile retail		1														1	auto mobile retail
080203	furniture/fittings retail										1						1	furniture/fittings retail
090209	other advertisement and mediator								1								1	other advertisement and mediator
010201	silk-reeling																	silk-reeling
010202	cotton-spinning																	cotton-spinning
010203	weaving																	weaving
010301	over/under wear																	over/under wear
010502	metal furniture																	metal furniture
010702	bookbinding																	bookbinding
010802	chemical fiber																	chemical fiber
010808	painting products																	painting products
011304	watch products																	watch products
011503	railway vehicle products																	railway vehicle products

011601	electric utility service											electric utility service
011603	city water service											city water service
011609	other electric/gas/water service											other electric/gas/water service
011704	tobacco products											tobacco products
020101	general coal mining											general coal mining
020109	other coal mining											other coal mining
020202	gravel digging											gravel digging
020209	other quarrying											other quarrying
020301	metal mining											metal mining
020302	petroleum mining											petroleum mining
020309	other mining											other mining
030101	hydroelectric plant construction work											hydroelectric plant construction work
030102	tunnel construction work											tunnel construction work
030103	subway construction work											subway construction work
030104	railway construction work											railway construction work
030105	bridge construction work											bridge construction work
030107	river civil engineering work											river civil engineering work
030108	sand collapse prevention civil engineering work											sand collapse prevention civil engineering work
030109	land consolidation civil engineering work											land consolidation civil
030110	water supply/sewage construction work											water supply/sewage construction work
030111	port/seaside construction work											port/seaside construction work

030301	electricity/telecommunication work												electricity/telecommunication work
040102	water transportation service												water transportation service
040201	taxi service												taxi service
040209	other passenger transport service												other passenger transport service
040303	cargo/ light automobile transportation service												cargo/ light automobile transportation service
040309	other land cargo transportation service												other land cargo transportation service
050201	general harbor transportation service												general harbor transportation service
050202	port cargo handling service												port cargo handling service
050209	other harbor transportation service												other harbor transportation service
060209	other forestry												other forestry
070201	fishery												fishery
070209	other fishery												other fishery
080102	furniture/fittings wholesale												furniture/fittings wholesale
080205	newspaper retail												newspaper retail
080302	beauty salon												beauty salon
080401	warehousing												warehousing
090101	banking/trust business												banking/trust business
090102	stock/commodity trade business												stock/commodity trade business
090103	insurance business												insurance business
090109	other financial business												other financial business

090201	traveling service																						traveling service
100101	movie production and										Ì												movie production and
	delivery service																						delivery service
100102	movie theatre																						movie theatre
100109	other movie/play service																						other movie/play service
110101	telecommunication service																						telecommunication service
120101	auto mobile practical training																						auto mobile practical training
120102	software service																						software service
130309	other health and hygiene																						other health and hygiene
	service																						service
150105	livestock process service																						livestock process service
170201	security service																						security service
170202	information processing																						information processing
170202	service																						service
	total		205	203	181	182	174	185	173	194	144	151	174	146	145	119	169	170	215	172	179	3,281	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