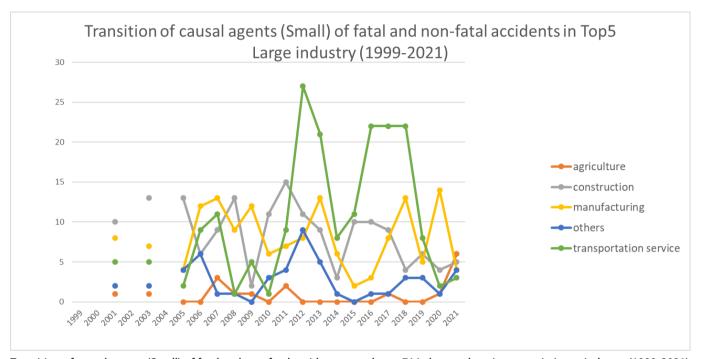
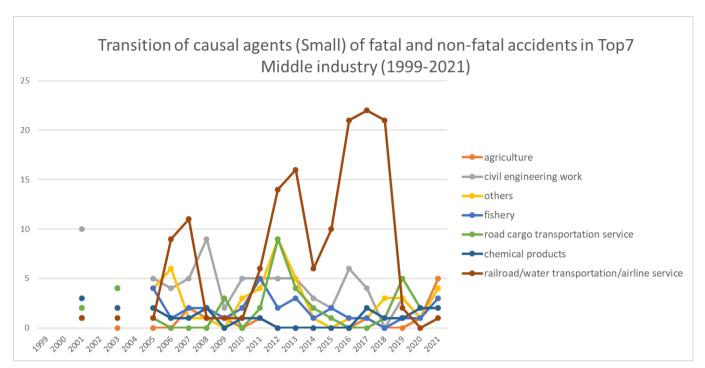
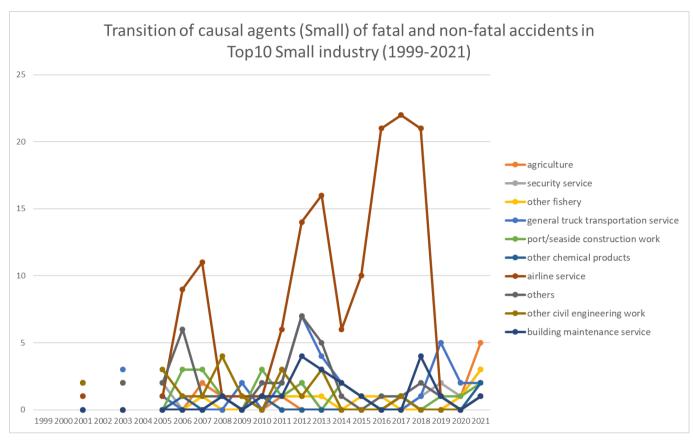
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 714 abnormal environment (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 714 abnormal environment in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 714 abnormal environment in Middle Industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 714 abnormal environment in Small Industry (1999-2021)

## Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 714 abnormal environment 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
06	agriculture			1		1				3	1	1		2						1			1	6	17	agriculture
03	construction			10		13		13	6	9	13	2	11	15	11	9	3	10	10	9	4	6	4	5	163	construction
01	manufacturing			8		7		4	12	13	9	12	6	7	8	13	6	2	3	8	13	5	14	4	154	manufacturing
17	others			2		2		4	6	1	1		3	4	9	5	1		1	1	3	3	1	4	51	others
04	transportation service			5		5		2	9	11	1	5	1	9	27	21	8	11	22	22	22	8	2	3	194	transportation service
07	livestock/fishery			1		4		4	1	2	4	2	2	5	3	3	1	5	3	2	1	1	1	3	48	livestock/fishery
08	commerce			9		1		7	2		2	2	7	6	10	2	2	2	4	2	5	2		1	66	commerce

14	hotel/restaurant/amusement		 	2	3	3	2	7	<sub>1</sub>	4	2	2		1	2	3	5	<sub>1</sub>	2	2	1	45	hotel/restaurant/amusement
	service													'								45	service
15	commercial cleaning and		3			1		2		3	1	8	1	2	1	2	1	_	1	5	1	43	commercial cleaning and
	livestock process		3							3												43	livestock process
13	health and hygiene service		4	3	2			2		4	2	3	3				2	8		2		35	health and hygiene service
05	cargo handling service		1		1	1	1		1	1	1	2			1	1		1				12	cargo handling service
09	financial		1	1			1						1	1	1			1				9	financial
09	business/advertisement		l	ľ							2			I	1							9	business/advertisement
11	telecommunication service							2	1	1	1		1			1	1	1				9	telecommunication service
12	education/research service						1			1	1		1	1		1	1					7	education/research service
02	mining							1					1									2	mining
16	public office				1								1									2	public office
10	movie/play service										1											1	movie/play service
	total		46	40	41	41	44	45	27	44	59	83	65	26	35	51	55	65	31	32	28	858	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 714 abnormal environment 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
0601	agriculture			1						2	1	1		1						1			1	5	13	agriculture
0301	civil engineering work			10		4		5	4	5	9	2	5	5	5	5	3	2	6	4		3	1	4	82	civil engineering work
1702	others			2		2		4	6	1	1		3	4	9	5	1		1	1	3	3	1	4	51	others
0702	fishery			1		4		4	1	2	2	1	2	5	2	3	1	2	1	1		1	1	3	37	fishery
0403	road cargo transportation service			2		4		1				3		2	9	4	2	1			1	5	2	2	38	road cargo transportation service
0108	chemical products			3		2		2	1	1	2		1	1						2	1	1	2	2	21	chemical products
0401	railroad/water transportation/airline service			1		1		1	9	11	1	1	1	6	14	16	6	10	21	22	21	2		1		railroad/water transportation/airline

																							service
0802	retail		6	1	6	2		2	2	6	5	9	2	2	1	3	2	5	2		1	57	retail
1501	commercial cleaning and livestock process		3			1		2		3	1	8	4	2	1	2	1	5	4	5	1	43	commercial cleanin
0303	other construction works			2	6	1	3	1				1	3		2	1	2	3	2	2	1	30	other construction works
0112	metal products		1				3			1		1	1		1	1	1	4	1	2	1	18	metal products
1402	restaurant		1	3	1	1		2			1				1		1	1			1	13	restaurant
0602	forestry			1			1				1										1	4	forestry
0116	electric/gas/water service														1					1	1	3	electric/gas/water service
0302	construction work			7	2	1	1	3		6	10	5	1		6	3	3	1	1	1		51	construction work
0101	food products		1	2		5	3	4	3	1	3	4	7	1		1	1		1	1		38	food products
1403	other amusement service				2		1	5	1	2	1	2		1		2	4		1	1		23	other amusement service
0115	transport equipment products					1	1	1	2	1	1		1	2			3	3		3		19	transport equipme
1301	medical treatment service		3	2	1			1				2					1	6		2		18	medical treatmen
1302	social welfare facility		1	1	1			1		3	1	1	3				1	1				14	social welfare faci
0117	other manufacturing		2	1	1		2		3		1								1	1		12	other manufactur
0402	road passenger transport service		2						1		1	4	1			1			1			11	road passenger transport service
0701	livestock							2	1			1			3	2	1	1				11	livestock
0109	sand and stone products		1				1	1		1		1	1	1			1	1		1		10	sand and stone products
1101	telecommunication service							2	1	1	1		1			1	1	1				9	telecommunicatio

	_				<u> </u>										<u> </u>						service
1401 hotel					2	1			2					1	1			1	1	9	hotel
0110 steel making				1	2			1			1		1				1		1	8	steel making
0114 electrical equipment products			2		1	1	1				1								2	8	electrical equipmer products
0501 land cargo handling service		1				1			1	1	2						1			7	land cargo handlin
0804 other commerce		2		1					1	1	1				1					7	other commerce
1201 education/research service						1			1	1		1	1		1	1				7	education/research
0111 nonferrous metal making					1	1		3									1			6	nonferrous metal making
0901 financial business			1			1				2		1	1							6	financial business
0502 harbor transportation service				1	1			1						1	1					5	harbor transportat
0104 wood products												3								3	wood products
0113 machine products					1										1		1			3	machine products
0902 advertisement and mediator		1												1			1			3	advertisement and
1303 other health and hygiene service									1	1							1			3	other health and hygiene service
0107 printing/bookbinding									1								1			2	printing/bookbind
0202 quarrying							1					1								2	quarrying
0801 wholesale		1												1						2	wholesale
1601 public office				1								1								2	public office
0102 textile products													1							1	textile products
0103 fiber products										1										1	fiber products

0106	pulp/paper processing products																		1			1	pulp/paper processing products
1001	movie/play service										1											1	movie/play service
0105	furniture																						furniture
0201	coal mining																						coal mining
0203	other mining																						other mining
0404	other transportation service																						other transportation service
0803	haircut/beauty salon																						haircut/beauty salon
1701	dispatch service																						dispatch service
	total		46	40	41	41	44	45	27	44	59	83	65	26	35	51	55	65	31	32	28	858	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 714 abnormal environment in Small industry (1999-2021)

code	Small industry	1999	2000	2001	2002	2003 200	4 2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Small industry
060101	agriculture			1					2	1	1		1						1			1	5	13	agriculture
170201	security service						2					1	1	2						1	2	1	3	13	security service
070209	other fishery						1		1			1	1	1	1		1	1				1	3	12	other fishery
040301	general truck transportation			2		3	1				2		2	7	4	2	1			1	5	2	2	34	general truck transportation
	service																								service
030111	port/seaside construction			2		2		3	3	1		2	1	2		2	1		1		1	1	2	25	port/seaside construction
	work									•			•									ľ			work
010899	other chemical products							1		1		1							1				2	6	other chemical products
040103	airline service			1			1	9	11	1	1	1	6	14	16	6	10	21	22	21	1		1	143	airline service
170209	others			2		2	2	6	1	1		2	2	7	5	1		1	1	2	1		1	37	others
030199	other civil engineering work			2			3	1	1	4	1		3	1	3				1				1	21	other civil engineering work
150101	building maintenance service									1		1	1	4	3	2	1			4	1		1	19	building maintenance service

011209	other metal products		1				3			1		1	1		1		1	4	1		1	15	other metal products
030309	other construction works				1	1	2	1				1	2		1		1	1	1	2	1	15	other construction works
140201	general restaurant		1	3	1	1		1			1				1		1	1			1	12	general restaurant
030105	bridge construction work		2		1			1					1			1	1				1	8	bridge construction work
060209	other forestry						1				1										1	3	other forestry
011601	electric utility service																				1	1	electric utility service
080203	furniture/fittings retail																				1	1	furniture/fittings retail
080205	newspaper retail		6	1	2	1		1	2	3	3	3	1					3	1			27	newspaper retail
070201	fishery		1	4	3	1	1	2	1	1	4	1	2	1	1		1		1			25	fishery
	steel frame/reinforced																						steel frame/reinforced
030201	concrete house construction			5	1	1		1		2	3	4			2		1	1	1			22	concrete house construction
	work																						work
080209	other retails				2	1		1		1	1	5		2		2	1	1	1			18	other retails
130101	hospital		2	2	1			1				2					1	6		2		17	hospital
010109	other foods			1			1	3			1	1	4	1			1		1	1		15	other foods
130201	social welfare facility		1	1	1			1		3	1	1	3				1	1				14	social welfare facility
011501	ship building					1		1	1		1		1	2			1	1		3		12	ship building
	wooden house construction			1						1	1				4		1			1		12	wooden house construction
030202	work										4				4					ľ		12	work
030110	water supply/sewage		2					2	1	1						5						11	water supply/sewage
030110	construction work																						construction work
070101	livestock							2	1			1			3	2	1	1				11	livestock
030106	road construction work		2	1	1		1	1				1	1		1				1			10	road construction work
030209	other building construction							2		3	2	1	1				1					10	other building construction
030209	work									3												10	work
140309	other amusement service				2		1	1	1	1				1		2	1					10	other amusement service
010104	bread/cake products					4	2			1	1	1										9	bread/cake products

030302	machinery/apparatus setting work			2	5													1	1		9	machinery/apparatus setting work
080201	all kinds of retail				2					2	1				1	1	1	1			9	all kinds of retail
110101	telecommunication service							2	1	1	1		1			1	1	1			9	telecommunication service
140101	hotel					2	1			2					1	1			1	1	9	hotel
150102	industrial waste management service									1		2				2	1	1		2	9	industrial waste managemen
011709	other manufacturing		2		1				3										1	1	8	other manufacturing
140302	park and amusement park							2				1					3		1	1	8	park and amusement park
150109	other cleaning and livestock process service		1					1		1		2	1						1	1	8	other cleaning and livestock process service
010801	non organic or organic chemical products		2		1			1			1									2	7	non organic or organic chemical products
011403	electronics equipment and telecommunications apparatus			2			1	1				1								2	7	electronics equipment and telecommunications apparatus
030203	building facility construction work			1	1		1				1					3					7	building facility construction work
050101	land cargo handling service		1				1			1	1	2						1			7	land cargo handling service
120109	other education/research service						1			1	1		1	1		1	1				7	other education/research service
150103	other waste disposal service		2			1													2	2	7	other waste disposal service
010901	cement products		1				1					1	1	1						1	6	cement products
030301	electricity/telecommunication work						1						1		1	1	1	1			6	electricity/telecommunicatio
040201	taxi service		1						1		1	2	1								6	taxi service
080409	other commerce		2		1						1	1				1					6	other commerce

010102	fishery products		1			1			1			1	1								5	fishery products
010805	plastics products		1	2	1												1				5	plastics products
011101	nonferrous metals/rolling products					1	1		3												5	nonferrous metals/rolling products
011502	auto mobile products						1		1								1	2			5	auto mobile products
040202	bus service		1									2				1			1		5	bus service
140301	golf course							2		1	1	1									5	golf course
011001	steel/iron/rolling products				1	1						1						1			4	steel/iron/rolling products
090103	insurance business			1			1				2										4	insurance business
010105	alcoholic drinks			1				1			1										3	alcoholic drinks
010106	soft drinks								2							1					3	soft drinks
010402	plywood												3								3	plywood
010909	other sand and stone products							1		1							1				3	other sand and stone
011301	machine products					1										1		1			3	machine products
030102	tunnel construction work										1			1					1		3	tunnel construction work
040303	cargo/ light automobile transportation service			1					1			1									3	cargo/ light automobile transportation service
050202	port cargo handling service				1	1									1						3	port cargo handling service
130301	bathhouse									1	1							1			3	bathhouse
010101	meat/dairy products												2								2	meat/dairy products
010701	printing service									1								1			2	printing service
011002	casting products								1					1							2	casting products
011009	other steel products					1														1	2	other steel products
011204	metal plating products															1				1	2	metal plating products
011509	other transport equipment products									1							1				2	other transport equipment products

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011703	cleaning					1								1										2	cleaning
030109	land consolidation civil														1					1				2	land consolidation civil
030109	engineering work														ı					•					engineering work
040101	railroad service					1																1		2	railroad service
080109	other wholesale			1														1						2	other wholesale
080204	fuel retail														1	1								2	fuel retail
090201	traveling service			1														1						2	traveling service
160101	public office							1								1								2	public office
010103	agricultural food products														1									1	agricultural food products
010203	weaving																1							1	weaving
010309	other fiber products													1										1	other fiber products
010601	pulp/paper																					1		1	pulp/paper
010803	pharmaceuticals																					1		1	pharmaceuticals
010808	painting products																				1			1	painting products
010809	chemical fertilizer products									1														1	chemical fertilizer products
010903	pottery products																				1			1	pottery products
011109	other nonferrous metal																				1			1	other nonferrous metal
011109	products																				1				products
011203	metal press products																						1	1	metal press products
011402	electrical appliance								1															1	electrical appliance
011602	city gas service																	1						1	city gas service
011603	city water service																						1	1	city water service
011701	auto mobile servicing									1														1	auto mobile servicing
011702	machine repair									1														1	machine repair
020201	quarrying										1													1	quarrying
020202	gravel digging															1								1	gravel digging
						$\overline{}$					i	i		$\overline{}$				i							

030101	hydroelectric plant construction work								1								1	hydroelectric plant construction work
030107	river civil engineering work			1													1	river civil engineering work
040309	other land cargo transportation service										1						1	other land cargo transportation service
050201	general harbor transportation service							1									1	general harbor transportation service
050209	other harbor transportation service													1			1	other harbor transportation service
060201	lumbering			1													1	lumbering
080401	warehousing								1								1	warehousing
090101	banking/trust business											1					1	banking/trust business
090109	other financial business												1				1	other financial business
090209	other advertisement and mediator														1		1	other advertisement and mediator
100109	other movie/play service									1							1	other movie/play service
130109	other medical treatment service		1														1	other medical treatment
140209	other restaurants						1										1	other restaurants
170202	information processing service									1							1	information processing service
010201	silk-reeling																	silk-reeling
010202	cotton-spinning																	cotton-spinning
010204	dyeing																	dyeing
010209	other textile products																	other textile products
010301	over/under wear																	over/under wear
010401	lumbering																	lumbering

010409	other lumber and wood products													other lumber and wood products
010501	wood furniture													wood furniture
010502	metal furniture													metal furniture
010503	fittings													fittings
010509	other furniture													other furniture
010602	paper processing products													paper processing products
010609	other pulp/paper processing products													other pulp/paper processing products
010702	bookbinding													bookbinding
010709	other printing and bookbinding													other printing and bookbinding
010802	chemical fiber													chemical fiber
010804	petroleum/coal products													petroleum/coal products
010806	rubber products													rubber products
010807	leather products													leather products
010902	glass products													glass products
010904	fire resisting products													fire resisting products
010905	other ceramic products													other ceramic products
011102	nonferrous metals casting products													nonferrous metals casting products
011201	western tableware/cutting tool products													western tableware/cutting tool products
011202	screw products													screw products
011302	measuring instruments													measuring instruments
011303	optical instruments													optical instruments
011304	watch products													watch products

011305	other precision machine products											other precision machine products
011401	heavy electrical equipment											heavy electrical equipment
011409	other electrical equipment											other electrical equipment
011503	railway vehicle products											railway vehicle products
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
020209	other quarrying											other quarrying
020301	metal mining											metal mining
020302	petroleum mining											petroleum mining
020309	other mining											other mining
030103	subway construction work											subway construction work
030104	railway construction work											railway construction work
030108	sand collapse prevention civil engineering work											sand collapse prevention civil engineering work
040102	water transportation service											water transportation service
040209	other passenger transport service											other passenger transport service
040302	specific truck transportation service											specific truck transportation service
040409	other transportation service											other transportation service
080101	all kinds of wholesale											all kinds of wholesale
080102	furniture/fittings wholesale											furniture/fittings wholesale
080202	auto mobile retail											auto mobile retail

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080301	haircut																								haircut
080302	beauty salon																								beauty salon
090102	stock/commodity trade business																								stock/commodity trade business
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
130102	general clinic																								general clinic
130309	other health and hygiene service																								other health and hygiene service
150104	cremation service																								cremation service
150105	livestock process service																								livestock process service
170101	dispatch service																								dispatch service
	total		46		40		41	41	44	45	27	44	59	83	65	26	35	51	55	65	31	32	28	858	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