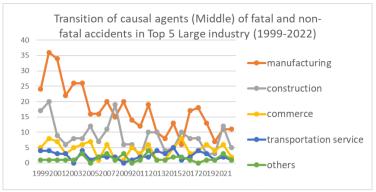
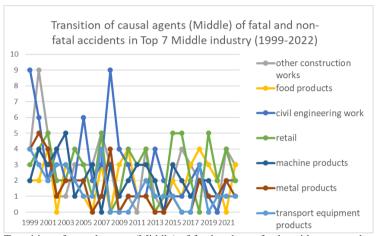
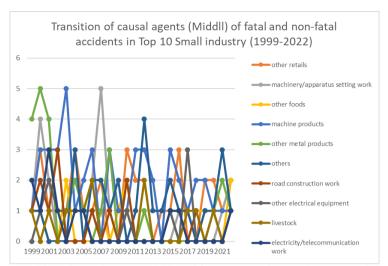
Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 11 engine (1999-2022)



Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 11 engine in Large industry (1999-2022)



Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 11 engine in Middle Industry (1999-2022)



Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 11 engine in Middle Industry (1999-2022)

Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 11 engine in Large industry (1999-2022)

	tuoli oi causai agents (whutie) oi i															_										_	1
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	2022	total	Large industry
01	manufacturing	24	36	34	22	26	26	16	16	20	15	20	14	12	19	10	8	13	6	17	18	13	7	11	11	414	manufacturing
03	construction	17	20	9	6	8	8	12	7	11	19	6	6	2	10	10	4	5	10	8	8	3	3	12	5	209	construction
08	commerce	5	8	7	3	5	6	7	1	6	1	1	5	3	6	1	1	5	8	3	4	6	4	6	2	104	commerce
04	transportation service	4	4	3	3		4	1	2	2	2		1	2	2	4	3	5	1	2	4	3	1	2	1	56	transportation service
17	others	1	1	1	1	1	3		2	3	1	3		1	4	1	1	2	2	1		1	1	3	1	35	others
07	livestock/fishery	1		2	2	1	2	2	3	1	1			1	2				1	1	1	2	1	1	1	26	livestock/fishery
13	health and hygiene service					1	1						2	2	1							1	1		1	10	health and hygiene service
12	education/research service										1				1									1	1	4	education/research service
15	commercial cleaning and livestock process	4	1	1	2	1		1	2	1	1	1	2	2	1	1	2	1	2	6		1	1			34	commercial cleaning and livestock process
14	hotel/restaurant/amusement service	1	2	4	1		1	1		1		1			2	1	2		1					1		19	hotel/restaurant/amusement service
06	agriculture	2	1					1			1	1		1		1	2	1			2	1				14	agriculture
05	cargo handling service		1			1					2	1	2		1		1	1						2		12	cargo handling service
02	mining				1			1	2	2					2						1					9	mining
11	telecommunication service							1				1		1		1			1					1		6	telecommunication service
09	financial business/advertisement	1			1				1																	3	financial business/advertisement
16	public office						1									1										2	public office
10	movie/play service																										movie/play service
	total	60	74	61	42	44	52	43	36	47	44	35	32	27	51	31	24	33	32	38	38	31	19	40	23	957	total

Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 11 engine in Middle industry (1999-2022)

code	Middle industry	1999	2000	2001	2002	2003	2004	2005	2006	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Middle industry	

0303	other construction works	4	9	5	1	1	3	3	3	5	3		1		4	1		2	4	3	2	1		4	3	62	other construction works
0101	food products	2	2	4		3	2	1		3		3	4	1	1		1	2	1	3	4	3	2		3	45	food products
0301	civil engineering work	9	6	2	4	2	2	6	2	3	9	4	3	1	1	4	2	1	1	2	3	1		2	2	72	civil engineering work
0802	retail	3	4	5	2	2	4	3	1	5		1	4	3	4		1	5	5	2		5	2	4	2	67	retail
0113	machine products	2	4	3	4	5	1	2	3		3	1	2	3	3	2		3	2	1	2	2	1	1	1	51	machine products
0112	metal products	4	5	4	1	2	2	2		1	4		1	1	1			1			2	1	1	2	1	36	metal products
0115	transport equipment products	4	3	2	3	3	2	1	1	4				1	2	1	1	1			3		1	1	1	35	transport equipment products
1702	others	1	1	1		1	3		2	2	1	3		1	4	1	1	2	2	1		1	1	3	1	33	others
0114	electrical equipment products		2	3	2	1	4	1	2	1			1			1		2		5			1	2	1	29	electrical equipment products
	sand and stone products		2	2	1								1			1					2	3		1	1	14	sand and stone products
0701	livestock	1		1		1	1	1	2						2					1	1		1		1	13	livestock
0104	wood products	2		1	1	1					2	3				1									1	12	wood products
0106	pulp/paper processing products		1							1			2				1	1		2				1	1	10	pulp/paper processing products
0401	railroad/water transportation/airline service	1	1								1							2			1				1	7	railroad/water transportation/airline service
0102	textile products		1			1	1								1					1					1	6	textile products
1301	medical treatment service					1	1						1										1		1	5	medical treatment service
1201	education/research service										1				1									1	1	4	education/research service
0117	other manufacturing	8	11	10	9	8	10	7	6	5	5	11	2	5	5	2	2	3	3	2	4	1				119	other manufacturing
0302	construction work	4	5	2	1	5	3	3	2	3	7	2	2	1	5	5	2	2	5	3	3	1	3	6		75	construction work
1501	commercial cleaning and livestock process	4	1	1	2	1		1	2	1	1	1	2	2	1	1	2	1	2	6		1	1			34	commercial cleaning and livestock process
0403	road cargo transportation service	3	2	2	2		1		1	1			1		1	3	1	2	1	2	2	3	1	2		31	road cargo transportation service
0108	chemical products	1	2	3		1	4		1	3	1	1			2	1	2			1			1	3		27	chemical products
0801	wholesale	2	2	2	1	2	1	2		1					1	1			1		3		2	1		22	wholesale
	road passenger transport service		1	1	1		3	1	1	1	1			2	1		2	1			1					17	road passenger transport service
		1	3	2					3						1	1	1			1	1	2				16	steel making
0804	other commerce		2			1	1	2			1		1		1				2	1	1	1		1		15	other commerce
1403	other amusement service	1	2	3	1		1	1		1					1		1		1					1		14	other amusement service
0702	fishery			1	2		1	1	1	1	1			1					1			2		1		13	fishery
	electric/gas/water service					1		1		1		1	1	1	2											8	electric/gas/water service
	quarrying				1			1	1	2					2						1					8	quarrying
0601	agriculture	1						1				1					2				2	1				8	agriculture
							II				I																

0501	land cargo handling service					1							2				1	1						2		7	land cargo handling service
0602	forestry	1	1								1			1		1		1								6	forestry
1101	telecommunication service							1				1		1		1			1					1		6	telecommunication service
0502	harbor transportation service		1								2	1			1											5	harbor transportation service
1302	social welfare facility												1	2	1							1				5	social welfare facility
0111	nonferrous metal making				1										1					1						3	nonferrous metal making
0902	advertisement and mediator	1			1				1																	3	advertisement and mediator
1401	hotel			1								1				1										3	hotel
0105	furniture							1		1																2	furniture
1402	restaurant														1		1									2	restaurant
1601	public office						1									1										2	public office
1701	dispatch service				1					1																2	dispatch service
0103	fiber products																					1				1	fiber products
0203	other mining								1																	1	other mining
0404	other transportation service															1										1	other transportation service
0107	printing/bookbinding																										printing/bookbinding
0201	coal mining																										coal mining
0803	haircut/beauty salon																										haircut/beauty salon
0901	financial business																										financial business
1001	movie/play service																										movie/play service
1303	other health and hygiene service																										other health and hygiene service
	total	60	74	61	42	44	52	43	36	47	44	35	32	27	51	31	24	33	32	38	38	31	19	40	23	957	total

Transition of causal agents (Middle) of fatal and non-fatal accidents as code no. 11 engine in Middle industry (1999-2022)

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	2022	total	Small industry
	other retails	1	3	1	1	1	3	1	1	2			3	2	2		1	1	3			2	2	1	2	33	other retails
030302	machinery/apparatus setting work	1	4	2		1	1	1	2	5	1		1		2				1	1				1	2	26	machinery/apparatus setting work
010109	other foods	1	1			2				1		1	2		1			1		1	1	1	1		2	16	other foods
011301	machine products	1	3	3	3	5	1	2	3		3	1	1	3	3	2		3	2	1	2	2	1	1	1	47	machine products
011209	other metal products	4	5	4		1	2	1		1	3		1		1			1				1	1	2	1	29	other metal products
170209	others	1	1				3		2	2	1	2		1	4	1	1	2	1	1		1	1	3	1	29	others
030106	road construction work	1	2	1	3				1		1		2					1	1		1				1	15	road construction work
011409	other electrical equipment		1	2	1	1	1	1					1					1		3			1		1	14	other electrical equipment
	livestock	1		1		1	1	1	2						2					1	1		1		1	13	livestock
030301	electricity/telecommunication work	2	1	3	1		1	1										1	1						1	12	electricity/telecommunication work

other lumber and wood products	1			1						1	1				1									1	6	other lumber and wood products
010602 paper processing products												1				1	1		2					1	6	paper processing products
010901 cement products																				1	2		1	1	5	cement products
040102 water transportation service										1							1			1				1	4	water transportation service
010104 bread/cake products						1			1															1	3	bread/cake products
010203 weaving						1								1										1	3	weaving
other education/research service										1				1										1	3	other education/research
030102 tunnel construction work	ī			ī				i			İ	1			i									1	2	tunnel construction work
011503 railway vehicle products	ī	i		i	İ		İ	İ			İ							İ						1	1	railway vehicle products
other medical treatment service																								1	1	other medical treatment service
011701 auto mobile servicing	6	7	4	5	7	6	6	5	4	2	7	1	2		1	2	2	2	1	1					71	auto mobile servicing
030209 other building construction work	3	2	1		1	2	1	1		6			1	4	2			5		2	1	1	1		34	other building construction work
011702 machine repair	2	3	3	4	1	4	1	1		3	3		1	4	1				1						32	machine repair
040301 general truck transportation service	3	2	1	2		1		1	1			1		1	3	1	2		2	2	2		2		27	general truck transportation service
030199 other civil engineering work	2	3	1	1	İ	2	2	i	2	2	3				1	1	Ť	İ	2	1	1		2		26	other civil engineering wor
030309 other construction works	1	4		1		1	1	1		2				2	1		1	2	2	2	1		3		24	other construction works
080202 auto mobile retail	1	1	1	1	1		2	İ	2		1	1		1			2	1	1		2		2		20	auto mobile retail
011501 ship building	2	2	1	1	2		1		4				1			1				2		1	1		19	ship building
080109 other wholesale	2	1	2	1	1		2	i	1					1	1			1		3		2	1		19	other wholesale
steel frame/reinforced concrete house construction work			1	1	3	1			1	1		1			1	1			3			1	3		18	steel frame/reinforced concrete house construction work
industrial waste management				1			1	1		1		1	1	1	1	2		1	4		1				16	industrial waste manageme
030203 building facility construction work		2			1		2		1		1	1			2		2						2		14	building facility construction
water supply/sewage construction work	3				1				1	5				1	1	1									13	water supply/sewage construction work
080409 other commerce		2			1	1	2			1		1						1	1	1	1		1		13	other commerce
010101 meat/dairy products		1				1	1				1					1			2	2	1	1			11	meat/dairy products
010102 fishery products			3		1				1		1	1					1	1			1				10	fishery products
011401 heavy electrical equipment			1	1		3		1							1				2				1		10	heavy electrical equipment
040202 bus service		1		1		2	1	1	1	1			1							1					10	bus service
011709 other manufacturing		1	2						1				1	1						2	1				9	other manufacturing
wooden house construction work	1	1						1	1		1			1		1				1		1			9	wooden house construction work
0 other amusement service	1		1	1		1	1		1					1		1		1							9	other amusement service
011502 auto mobile products		1	1	1		1		1						1	1					1					8	auto mobile products
060101 agriculture	1						1				1					2				2	1				8	agriculture
	ī	ī	ī	1	i	ī	i	i	ī	i	i		i —	i —	i	İ	ī	i		i —		i		i	i	

080204 fuel retail	1		2						1					1				1	1				1	8	fuel retail
150101 building maintenance service	3	1		1							1							1				1		8	building maintenance service
010899 other chemical products		1	1			1			1					1	1								1	7	other chemical products
011509 other transport equipment products	2			1	1	1								1			1							7	other transport equipment products
011703 cleaning			1								1	1	1				1	1		1				7	cleaning
040201 taxi service			1			1							1	1		2	1							7	taxi service
050101 land cargo handling service					1							2				1	1						2	7	land cargo handling service
070201 fishery			1	1			1	1	1												2			7	fishery
011002 casting products		1	1					1						1	1				1					6	casting products
011601 electric utility service					1		1		1		1			2										6	electric utility service
020201 quarrying							1	1	2					1						1				6	quarrying
030111 port/seaside construction work		1					2			1					1					1				6	port/seaside construction work
060201 lumbering	1	1								1			1		1		1							6	lumbering
070209 other fishery				1		1				1			1					1					1	6	other fishery
110101 telecommunication service							1				1		1		1			1					1	6	telecommunication service
010801 non organic or organic chemical products								1	1					1		1						1		5	non organic or organic chemical products
010805 plastics products						1			1	1						1							1	5	plastics products
011001 steel/iron/rolling products		1	1					1								1					1			5	steel/iron/rolling products
011009 other steel products	1	1						1												1	1			5	other steel products
130201 social welfare facility												1	2	1							1			5	social welfare facility
150103 other waste disposal service			1					1	1								1		1					5	other waste disposal service
other cleaning and livestock process service	1				1							1	1						1					5	other cleaning and livestock process service
010401 lumbering	1		1		1					1														4	lumbering
010806 rubber products	1		1			1					1													4	rubber products
010909 other sand and stone products			1	1								1									1			4	other sand and stone products
030107 river civil engineering work	2										1				1									4	river civil engineering work
130101 hospital					1	1						1										1		4	hospital
140301 golf course		2	2																					4	golf course
170201 security service			1		1						1							1						4	security service
010103 agricultural food products	1		1																	1				3	agricultural food products
010809 chemical fertilizer products			1		1														1					3	chemical fertilizer products
010902 glass products		1	1												1									3	glass products
011101 nonferrous metals/rolling products				1										1					1					3	nonferrous metals/rolling products
011403 electronics equipment and telecommunications apparatus		1						1									1							3	electronics equipment and telecommunications apparatus
030105 bridge construction work							2						1											3	bridge construction work
land consolidation civil																									land consolidation civil

030109 engineering work	1				1			1																3	engineering work
040302 specific truck transportation service			1															1				1		3	specific truck transportation service
050201 general harbor transportation service		1								2														3	general harbor transportation service
080201 all kinds of retail						1											1				1			3	all kinds of retail
090209 other advertisement and mediator	1			1				1																3	other advertisement and mediator
140101 hotel			1								1				1									3	hotel
010105 alcoholic drinks							Ï					1	1											2	alcoholic drinks
010204 dyeing		1								İ									1					2	dyeing
010402 plywood											2													2	plywood
010601 pulp/paper									1			1												2	pulp/paper
010609 other pulp/paper processing products		1																					1	2	other pulp/paper processing products
010802 chemical fiber						1																	1	2	chemical fiber
010905 other ceramic products		1																		1				2	other ceramic products
011201 western tableware/cutting tool products				1	1																			2	western tableware/cutting tool products
011202 screw products										1										1				2	screw products
011204 metal plating products													1							1				2	metal plating products
011302 measuring instruments				1								1												2	measuring instruments
other precision machine products	1	1																						2	other precision machine products
011402 electrical appliance							i		1														1	2	electrical appliance
020202 gravel digging				1										1										2	gravel digging
040101 railroad service	1	1																						2	railroad service
050202 port cargo handling service											1			1										2	port cargo handling service
080101 all kinds of wholesale					1	1																		2	all kinds of wholesale
080205 newspaper retail			1										1											2	newspaper retail
080401 warehousing														1				1						2	warehousing
160101 public office						1									1									2	public office
dispatch service				1					1															2	dispatch service
010209 other textile products					1																			1	other textile products
010309 other fiber products																					1			1	other fiber products
010501 wood furniture							1																	1	wood furniture
010509 other furniture									1															1	other furniture
010807 leather products		1																						1	leather products
011203 metal press products							1																	1	metal press products
011602 city gas service													1											1	city gas service
011603 city water service												1												1	city water service
020309 other mining								1																1	other mining
040103 airline service																	1							1	airline service
							1		$\overline{}$							$\overline{}$			-	$\overline{}$		$\overline{}$	$\overline{}$	$\overline{}$	1

040309 other land cargo transportation service												1		$\ _1$	other land cargo transportation service
040409 other transportation service								1						1	other transportation service
080102 furniture/fittings wholesale	1													1	furniture/fittings wholesale
080203 furniture/fittings retail										1				1	furniture/fittings retail
120101 auto mobile practical training													1	1	auto mobile practical training
140201 general restaurant									1					1	general restaurant
140209 other restaurants							1							1	other restaurants
140302 park and amusement park													1	1	park and amusement park
010106 soft drinks															soft drinks
010201 silk-reeling															silk-reeling
010202 cotton-spinning															cotton-spinning
010301 over/under wear															over/under wear
010502 metal furniture															metal furniture
010503 fittings															fittings
010701 printing service															printing service
010702 bookbinding															bookbinding
010709 other printing and bookbinding															other printing and bookbinding
010803 pharmaceuticals															pharmaceuticals
010804 petroleum/coal products															petroleum/coal products
010808 painting products															painting products
010903 pottery products															pottery products
010904 fire resisting products		ĺ													fire resisting products
011102 nonferrous metals casting products															nonferrous metals casting products
011109 other nonferrous metal products															other nonferrous metal products
011303 optical instruments															optical instruments
011304 watch products															watch 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
hydroelectric plant construction work															hydroelectric plant construction work
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

040209 other passenger transport service																										other passenger transport service
040303 cargo/ light automobile transportation service																										cargo/ light automobile transportation service
050209 other harbor transportation service																										other harbor transportation service
060209 other forestry																										other forestry
080301 haircut																										haircut
080302 beauty salon																										beauty salon
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
movie production and delivery service																										movie production and delivery service
100102 movie theatre																										movie theatre
100109 other movie/play service																										other movie/play service
120102 software service																										software service
[130102] general clinic																										general clinic
130301 bathhouse																										bathhouse
other health and hygiene service																										other health and hygiene service
150104 cremation service																										cremation service
150105 livestock process service																										livestock process service
170202 information processing service																										information processing service
total	60	74	61	42	44	52	43	36	47	44	35	32	27	51	31	24	33	32	38	38	31	19	40	23	957	total

Data source: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html (MHLW, Japan)

https://www.jisha.or.jp/english/statistics/202311_12.html