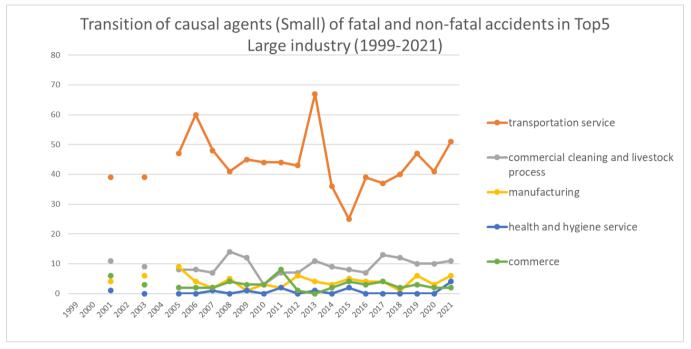
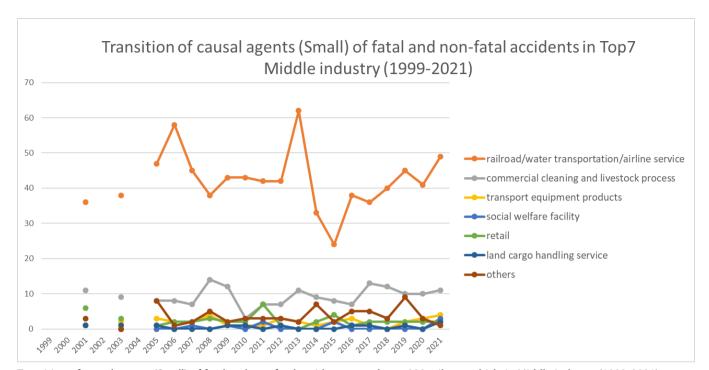
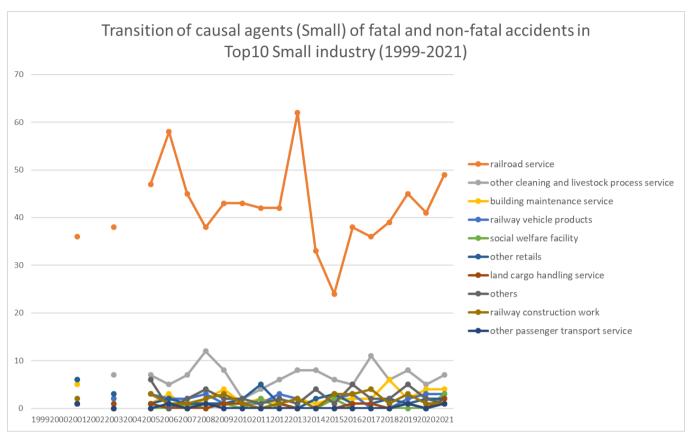
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 232 railway vehicle (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 232 railway vehicle in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 232 railway vehicle in Middle Industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 232 railway vehicle in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 232 railway vehicle 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
04	transportation service			39		39		47	60	48	41	45	44	44	43	67	36	25	39	37	40	47	41	51	833	transportation service
15	commercial cleaning and livestock process			11		9		8	8	7	14	12	3	7	7	11	9	8	7	13	12	10	10	11	177	commercial cleaning and livestock process
01	manufacturing			4		6		9	4	2	5	1	3	2	6	4	3	5	4	4	1	6	3	6	78	manufacturing
13	health and hygiene service			1						1		1		2		1		2						4	12	health and hygiene service
08	commerce			6		3		2	2	2	4	3	3	8	1		2	4	3	4	2	3	2	2	56	commerce
05	cargo handling service			1		1		1				1	1		1				1	1		1		2	11	cargo handling service
17	others			3		1		10	1	2	5	2	3	3	3	2	7	2	5	6	3	9	3	1	71	others

03	construction		5	3	9	3	1	2	8	3	2	2	4	3	4	6	5	1	4	4	1	70	construction
11	telecommunication service		1			1		1										1			1	5	telecommunication service
09	financial		1		3	1	1	1	1	1	2	1	2	3			1	4	1	2		25	financial
	business/advertisement																		ļ				business/advertisement
14	hotel/restaurant/amusement			1	2	1			1	1	1			1		1	1	1				11	hotel/restaurant/amusement
	service					ľ			Ľ	Ľ	ľ			ľ								11	service
12	education/research service				1	1	1			2				1		1						7	education/research service
07	livestock/fishery			1													1					2	livestock/fishery
06	agriculture																1					1	agriculture
10	movie/play service					1																1	movie/play service
02	mining																						mining
16	public office																						public office
	total		72	64	92	83	65	73	75	64	71	64	91	65	50	67	74	65	81	65	79	1,360	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 232 railway vehicle 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
0401	railroad/water transportation/airline service			36		38		47	58	45	38	43	43	42	42	62	33	24	38	36	40	45	41	49	800	railroad/water transportation/airline service
1501	commercial cleaning and livestock process			11		9		8	8	7	14	12	3	7	7	11	9	8	7	13	12	10	10	11	177	commercial cleaning and livestock process
0115	transport equipment products			1		2		3	2	2	4	1	1	1	3	2	1	2	3	1		2	3	4	38	transport equipment products
1302	social welfare facility			1						1		1		2				2						3	10	social welfare facility
0802	retail			6		3		1	2	2	3	2	2	7	1		2	4	1	2	2	2	2	2	46	retail
0501	land cargo handling service			1		1		1				1	1		1				1	1		1		2	11	land cargo handling

																							service
1702	others		3		8	1	2	5	2	3	3	3	2	7	2	5	5	3	9	3	1	67	others
0301	civil engineering work		3	1	4	1	1	2	5	1		1	2	1	3	3	4	1	3	3	1	40	civil engineering wo
0403	road cargo transportation service		1	1			3	2	2	1	1		3	3	1	1					1	20	road cargo transportation servi
0402	road passenger transport service		2			2		1			1	1	2				1		1		1	12	road passenger transport service
0110	steel making		1					1						1			1				1	5	steel making
1101	telecommunication service		1			1		1										1			1	5	telecommunication service
1303	other health and hygiene service												1								1	2	other health and hygiene service
0112	metal products																				1	1	metal products
0303	other construction works		2	2	4	1			1	1	1		1	2	1	3			1			20	other construction works
0901	financial business				2		1	1	1		1	1	2	2			1	2	1	1		16	financial business
0117	other manufacturing		1	2		1					1	2			2	1		1	2			13	other manufacturin
0302	construction work				1	1			2	1	1	1	1				1			1		10	construction work
0902	advertisement and mediator		1		1	1				1	1			1				2		1		9	advertisement and mediator
0801	wholesale				1				1		1					2	2		1			8	wholesale
0114	electrical equipment products				4	1									1		1					7	electrical equipmer
1201	education/research service				1	1	1			2				1		1						7	education/research
1402	restaurant				2									1		1		1				5	restaurant
0101	food products			1								1							2			4	food products

0108	chemical products			1	1				1		1						4	chemical products
0113	machine products		1						1		1			1			4	machine products
1701	dispatch service			1	2									1			4	dispatch service
1401	hotel			1		1				1							3	hotel
1403	other amusement service							1	1					1			3	other amusement service
0702	fishery			1										1			2	fishery
0804	other commerce						1		1								2	other commerce
0105	furniture				1												1	furniture
0109	sand and stone products											1					1	sand and stone products
0404	other transportation service														1		1	other transportation service
0601	agriculture													1			1	agriculture
1001	movie/play service					1											1	movie/play service
0102	textile products																	textile products
0103	fiber products																	fiber products
0104	wood products																	wood products
0106	pulp/paper processing products																	pulp/paper processing products
0107	printing/bookbinding																	printing/bookbinding
0111	nonferrous metal making																	nonferrous metal making
0116	electric/gas/water service																	electric/gas/water service
0201	coal mining																	coal mining
0202	quarrying																	quarrying

0203	other mining																						other mining
0503	harbor transportation service																						harbor transportation
0502	narbor transportation service																						service
0602	forestry																						forestry
0701	livestock																						livestock
0803	haircut/beauty salon																						haircut/beauty salon
1201	medical treatment service																						medical treatment
1301	medical treatment service																						service
1601	public office																						public office
	total		72	64	92	83	65	73	75	64	71	64	91	65	50	67	74	65	81	65	79	1,360	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 232 railway vehicle 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
040101	railroad service			36		38		47	58	45	38	43	43	42	42	62	33	24	38	36	39	45	41	49	799	railroad service
150109	other cleaning and livestock process service			6		7		7	5	7	12	8	2	4	6	8	8	6	5	11	6	8	5	7	128	other cleaning and livestock process service
150101	building maintenance service			5		2		1	3		2	4	1	2	1	2	1	2	2	2	6	2	4	4	46	building maintenance service
011503	railway vehicle products			1		2		3	2	2	3	1	1	1	3	2		2	3			2	3	3	34	railway vehicle products
130201	social welfare facility			1						1		1		2				2						3	10	social welfare facility
080209	other retails			6		3		1	2	1	1	1	2	5	1		2	3	1	1	2	1	2	2	37	other retails
050101	land cargo handling service			1		1		1				1	1		1				1	1		1		2	11	land cargo handling service
170209	others			1				6		2	4	2	2	1	2	1	4	1	5	2	2	5	2	1	43	others
030104	railway construction work			2				3	1	1	2	3	1		1	2		3	3	4	1	3	1	1	32	railway construction work
040209	other passenger transport service			1					1		1											1		1	5	other passenger transport service
110101	telecommunication service			1					1		1										1			1	5	telecommunication service

011001	steel/iron/rolling products		1											1			1				1	4	steel/iron/rolling products
011509	other transport equipment products																1				1	2	other transport equipment products
130309	other health and hygiene service												1								1	2	other health and hygiene service
011209	other metal products																				1	1	other metal products
040302	specific truck transportation service																				1	1	specific truck transportation service
040301	general truck transportation service		1	1			3	2	2	1	1		3	3	1	1						19	general truck transportation service
170201	security service		2			1				1	1	1	1	2	1		3	1	3	1		18	security service
090103	insurance business				2		1	1	1		1	1	2	1				2	1			13	insurance business
030301	electricity/telecommunication work		1	2					1		1		1	1	1	1			1			10	electricity/telecommunication work
030309	other construction works		1		4	1				1				1		2						10	other construction works
080109	other wholesale				1				1		1					2	2		1			8	other wholesale
080205	newspaper retail						1	1	1		2				1		1		1			8	newspaper retail
090209	other advertisement and mediator		1		1						1			1				2		1		7	other advertisement and mediator
011702	machine repair		1	1		1									1				2			6	machine repair
170202	information processing service				2			1			1			1					1			6	information processing service
040202	bus service		1			1						1	2									5	bus service
011409	other electrical equipment				3										1							4	other electrical equipment
011709	other manufacturing			1							1	1			1							4	other manufacturing
030199	other civil engineering work		1	1					1											1		4	other civil engineering work
	steel frame/reinforced																						steel frame/reinforced

	concrete house construction				1	1			1		1										concrete house construction
	work																				work
030209	other building construction											1	1			1			1	4	other building construction
	work																				work
120109	other education/research						1			1				1	1					4	other education/research
	service														ľ						service
170101	dispatch service			1	2											1				4	dispatch service
011301	machine products		1										1			1				3	machine products
011701	auto mobile servicing											1			1		1			3	auto mobile servicing
120102	software service				1	1				1										3	software service
140101	hotel			1		1					1									3	hotel
140209	other restaurants				1										1		1			3	other restaurants
150103	other waste disposal service										1		1						1	3	other waste disposal service
010109	other foods			1								1								2	other foods
010805	plastics products			1									1							2	plastics products
	electronics equipment and																				electronics equipment and
011403	telecommunications				1											1				2	telecommunications
	apparatus																				apparatus
040201	taxi service										1					1				2	taxi service
070201	fishery			1												1				2	fishery
080409	other commerce							1		1										2	other commerce
090101	banking/trust business													1		1				2	banking/trust business
090201	traveling service					1				1										2	traveling service
140201	general restaurant				1									1						2	general restaurant
140309	other amusement service								1							1				2	other amusement service
010103	agricultural food products																	1		1	agricultural food products
010105	alcoholic drinks																	1		1	alcoholic drinks
11	1			 		1					11	11	11								4

010502	metal furniture				1												1	metal furniture
010803	pharmaceuticals				1												1	pharmaceuticals
010804	petroleum/coal products								1								1	petroleum/coal products
010901	cement products										1						1	cement products
011009	other steel products						1										1	other steel products
011305	other precision machine products								1								1	other precision machine products
011402	electrical appliance					1											1	electrical appliance
011501	ship building										1						1	ship building
011502	auto mobile products						1										1	auto mobile products
030102	tunnel construction work										1						1	tunnel construction work
030105	bridge construction work				1												1	bridge construction work
030106	road construction work							1									1	road construction work
030107	river civil engineering work															1	1	river civil engineering work
030202	wooden house construction work							1									1	wooden house construction work
030203	building facility construction work								1								1	building facility construction work
040103	airline service													1			1	airline service
040409	other transportation service														1		1	other transportation service
060101	agriculture												1				1	agriculture
080203	furniture/fittings retail						1										1	furniture/fittings retail
090109	other financial business															1	1	other financial business
100101	movie production and delivery service					1											1	movie production and delivery service
140302	park and amusement park								1								1	park and amusement park
010101	meat/dairy products																	meat/dairy products

1		 	 	 			 	 	 		 		
010102	fishery products												fishery products
010104	bread/cake products												bread/cake products
010106	soft drinks												soft drinks
010201	silk-reeling												silk-reeling
010202	cotton-spinning												cotton-spinning
010203	weaving												weaving
010204	dyeing												dyeing
010209	other textile products												other textile products
010301	over/under wear												over/under wear
010309	other fiber products												other fiber products
010401	lumbering												lumbering
010402	plywood												plywood
010409	other lumber and wood												other lumber and wood
010403	products												products
010501	wood furniture												wood furniture
010503	fittings												fittings
010509	other furniture												other furniture
010601	pulp/paper												pulp/paper
010602	paper processing products												paper processing products
010609	other pulp/paper processing												other pulp/paper processing
	products												products
010701	printing service												printing service
010702	bookbinding												bookbinding
010709	other printing and												other printing and
010703	bookbinding												bookbinding
010801	non organic or organic												non organic or organic

	chemical products														chemical products
010802	chemical fiber														chemical fiber
010806	rubber products														rubber products
010807	leather products														leather products
010808	painting products														painting products
010809	chemical fertilizer products														chemical fertilizer products
010899	other chemical products														other chemical products
010902	glass products														glass products
010903	pottery products														pottery products
010904	fire resisting products														fire resisting products
010905	other ceramic products														other ceramic products
010909	other sand and stone products														other sand and stone
011002	casting products														casting products
011101	nonferrous metals/rolling products														nonferrous metals/rolling products
011102	nonferrous metals casting products														nonferrous metals casting products
011109	other nonferrous metal products														other nonferrous metal products
011201	western tableware/cutting tool products														western tableware/cutting tool products
011202	screw products														screw products
011203	metal press products														metal press products
011204	metal plating products														metal plating products
011302	measuring instruments														measuring instruments
011303	optical instruments														optical instruments
- 11	1									 			11	1	4

011304	watch products										watch products
011401	heavy electrical equipment										heavy electrical equipment
011601	electric utility service										electric utility service
011602	city gas service										city gas service
011603	city water service										city water service
011609	other electric/gas/water service										other electric/gas/water service
011703	cleaning										cleaning
011704	tobacco products										tobacco products
020101	general coal mining										general coal mining
020109	other coal mining										other coal mining
020201	quarrying										quarrying
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
030103	subway construction work										subway construction work
030108	sand collapse prevention civil engineering work										sand collapse prevention civil engineering work
030109	land consolidation civil										land consolidation civil
030110	water supply/sewage										water supply/sewage construction work
	port/seaside construction										port/seaside construction

030111	work										work
030302	machinery/apparatus setting work										machinery/apparatus setting work
040102	water transportation service										water transportation 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
050202	port cargo handling service										port cargo handling service
050209	other harbor transportation service										other harbor transportation service
060201	lumbering										lumbering
060209	other forestry										other forestry
070101	livestock										livestock
070209	other fishery										other fishery
080101	all kinds of wholesale										all kinds of wholesale
080102	furniture/fittings wholesale										furniture/fittings wholesale
080201	all kinds of retail										all kinds of retail
080202	auto mobile retail										auto mobile retail
080204	fuel retail										fuel retail
080301	haircut										haircut
080302	beauty salon										beauty salon
080401	warehousing										warehousing
090102	stock/commodity trade business										stock/commodity trade business

				1	-		1	-	-	-			-		-	-	1	-			<u> </u>		
100102	movie theatre																						movie theatre
100109	other movie/play service																						other movie/play service
120101	auto mobile practical training																						auto mobile practical training
130101	hospital																						hospital
130102	general clinic																						general clinic
130109	other medical treatment service																						other medical treatment service
130301	bathhouse																						bathhouse
140301	golf course																						golf course
150102	industrial waste management service																						industrial waste management service
150104	cremation service																						cremation service
150105	livestock process service																						livestock process service
160101	public office																						public office
	total		72	64	92	83	65	73	75	64	71	64	91	65	50	67	74	65	81	65	79	1,360	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