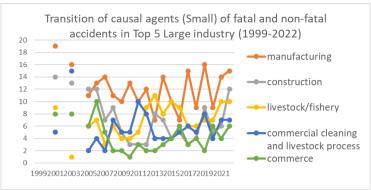
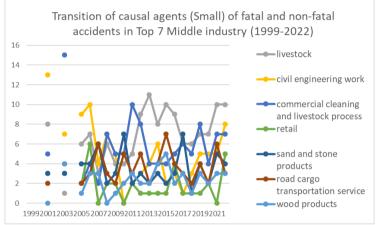
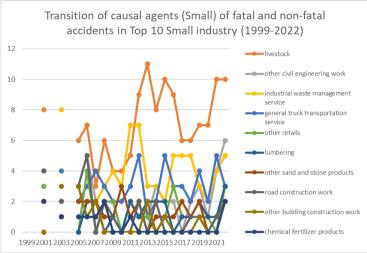
## Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 225 loader (1999-2022)



## Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 225 loader in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 225 loader in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 225 loader in Small Industry (1999-2022)

Tuno	ition of causal agents (Small) of fat										<u> </u>		<u> </u>														
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			19		16		11	13	14	11	10	13	10	12	7	14	10	7	15	9	16	9	14	15	245	manufacturing
03	construction			14		13		12	12	7	9	5	3	3	3	8	7	4	5	3	4	9	5	6	12	144	construction
07	livestock/fishery			9		1		6	7	3	6	4	4	5	9	11	8	10	9	6	6	7	7	10	10	138	livestock/fishery
15	commercial cleaning and livestock process			5		15		2	4	2	7	5	5	10	8	4	4	4	5	6	5	8	4	7	7	117	commercial cleaning and livestock process
08	commerce			8		8		6	10	5	2	2	1	3	2	2	3	4	6	3	4	2	6	4	6	87	commerce
04	transportation service			2		4		2	3	6	5	2	5	4	5	2	4	7	5	3	3	6	2	6	3	79	transportation service
05	cargo handling service			1		3		3	2	1	3	3	1	2	2		1	1	2	2	1		5	2	2	37	cargo handling service
06	agriculture			2		2			3		1	2	1	1	1		2	4		2		3	4	1	2	31	agriculture
02	mining			3		2		5	3	2		3		3	2		2	1	3	3	5	3	1	1	1	43	mining
14	hotel/restaurant/amusement service			2		1		1	1	1				4	2	1	2	2	2	2		2	2		1	26	hotel/restaurant/amusement service
17	others			1		1		3	1	2	6	2	2	2	2	2	2	1	1	2	3	1	1	2		37	others
12	education/research service								2										1				1	1		5	education/research service
13	health and hygiene service												1	1					1							3	health and hygiene service
16	public office							1									1									2	public office
09	financial business/advertisement																										financial business/advertisement
10	movie/play service																										movie/play service
11	telecommunication service																										telecommunication service
	total			66		66		52	61	43	50	38	36	48	48	37	50	48	47	47	40	57	47	54	59	994	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 225 loader in Large industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 225 loader in Middle industry (1999-2022)

code Middle industry	1999 200	0 2001 2002	2003 2004	2005 2006	2007 2008	8 2009 201	0 2011	2012 201	3 2014 2	2015 2016	2017	2018 2019	2020 20	21 2022	total	Middle industry

	livestock	8	1	6	7	3	6		4	5		11			9	6			7		10		livestock
0301	civil engineering work	13	7	9	10	4	7	5		2	3	4	6	2	3	1	3	5	5	5	8	102	civil engineering work
1501	commercial cleaning and livestock process	5	15	2	4	2	7	5	5	10	8	4	4	4	5	6	5	8	4	7	7	117	commercial cleaning and livestock process
0802	retail	3	3	2	6		2	2		2	1	1	1	1	4	1	1	1	2		5	38	retail
0109	sand and stone products	3	3	4	4	6	2	3	7	2	3	2	3	2	3	7	1	4	2	5	4	70	sand and stone products
0403	road cargo transportation service	2	4	2	3	6	3	2	5	3	5	2	4	7	4	3	2	4	2	6	3	72	road cargo transportation service
	wood products		4	1	3	3		1	2	3	2	2	4	5	2	3	1	3	2	3	3	47	wood products
	construction work	1	4	3	1	3	1		2			3	1	1		1		2		1	3	27	construction work
0108	chemical products	4	1	1	1	2	3	3		1	1	1			1		1	1	1		3	25	chemical products
0117	other manufacturing	1	5	4	2		2	2		1	4		1			2	1	4	1	2	2	34	other manufacturing
0501	land cargo handling service		1	1			1	2	1							1	1				2	10	land cargo handling service
0202	quarrying	3	2	4	3	2		3		2	2		1	1	3	3	5	3	1	1	1	40	quarrying
0801	wholesale	3	5	4	3	3			1	1	1	1	1	3	1	2	3	1	3	3	1	40	wholesale
1403	other amusement service		1	1	1	1				4	2	1	2	2	2	2		2	2		1	24	other amusement service
0601	agriculture		2		2			1		1	1		2	4		1		2	4	1	1	22	agriculture
0303	other construction works		2		1		1		1	1		1		1	2	1	1	2			1	15	other construction works
0101	food products				1		2			1	1		1	1		2	1	2	1		1	14	food products
0602	forestry	2			1		1	1	1							1		1			1	9	forestry
0113	machine products	2											1				1				1	5	machine products
0114	electrical equipment products					1															1	2	electrical equipment products
1702	others	1	1	2	1	2	6	2	2	2	2	2	1	1	1	2	3	1	1	2		35	others
0502	harbor transportation service	1	2	2	2	1	2	1		2	2		1	1	2	1			5	2		27	harbor transportation service
0106	pulp/paper processing products	3	2	1				1	2	1			1	1					1			13	pulp/paper processing products
0110	steel making	2					1								1	1	2		1	2		10	steel making
0804	other commerce	2			1	2							1		1				1	1		9	other commerce
0111	nonferrous metal making	1			1				1		1	1	2				1					8	nonferrous metal making
0112	metal products	1	1		1	1	1											2		1		8	metal products
1201	education/research service				2										1				1	1		5	education/research service
0115	transport equipment products	1										1								1		3	transport equipment products
	railroad/water transportation/airline service														1		1	1				3	railroad/water transportation/airline service
0102	textile products	1											1									2	textile products

0105 furniture										1				1								2	furniture
0116 electric/gas/water service						1			1													2	electric/gas/water service
0203 other mining				1						1												2	other mining
0402 road passenger transport service										1								1				2	road passenger transport service
0404 other transportation service							2															2	other transportation service
1301 medical treatment service										1					1							2	medical treatment service
1401 hotel		2																				2	hotel
1601 public office				1									1									2	public office
1701 dispatch service				1									1									2	dispatch service
0201 coal mining													1									1	coal mining
0702 fishery		1																				1	fishery
1302 social welfare facility									1													1	social welfare facility
0103 fiber products																							fiber products
0107 printing/bookbinding																							printing/bookbinding
0803 haircut/beauty salon																							haircut/beauty salon
0901 financial business																							financial business
0902 advertisement and mediator																							advertisement and mediator
1001 movie/play service																							movie/play service
1101 telecommunication service																							telecommunication service
1303 other health and hygiene service																							other health and hygiene service
1402 restaurant																							restaurant
total		66	66	52	61	43	50	38	36	48	48	37	50	48	47	47	40	57	47	54	59	994	total

## Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 225 loader in Small 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
070101	livestock			8		1		6	7	3	6	4	4	5	9	11	8	10	9	6	6	7	7	10	10	137	livestock
	other civil engineering work			4		2		3	5	2	3	2		1	1	1	3	2	2		2	3	1	4	6	47	other civil engineering work
	industrial waste management service			3		8			2	2	3	4	3	7	7	3	3	2	5	5	5	3	2	4	5	76	industrial waste management service
040301	general truck transportation service			2		4		2	3	4	3	2	2	3	5	1	2	5	3	3	2	4	2	5	3	60	general truck transportation service
080209	other retails			3		2			4		2	2		2	1	1		1	3	1	1	1	1		3	28	other retails
	lumbering					1			2	2		1		2	1	2	2	2		1	1	2	1	1	3	24	lumbering
010909	other sand and stone products			2		1		2	2	2	1	1	3	1	2		1	1	1	2	1	2		1	2	28	other sand and stone products
	road construction work			4		2		3	5		2	1			2		2				1	1		1	2	26	road construction work
030209	other building construction					3		3	1	2						2		1				1			2	15	other building construction

work																									work
010809 chemical fertilizer products		2		1		1	1	1	2			1											2	11	chemical fertilizer products
050101 land cargo handling service				1		1			1	2	1							1	1				2	10	land cargo handling service
080109 other wholesale		3		4		4	2	3			1	1	1	1	1	3	1	2	3	1	3	3	1	38	other wholesale
010901 cement products				2		1	2	3	1	2	3	1	1	1	1	1	2	5		2	2	4	1	35	cement products
150103 other waste disposal service				5		2	2		2	1	1	3	1		1	2		1		4	1	3	1	30	other waste disposal service
020201 quarrying		3		2		3	2	1		1			1		1		3	1	2	1	1		1	23	quarrying
060101 agriculture				2			2			1		1	1		2	4		1		2	4	1	1	22	agriculture
140301 golf course				1		1	1					3	2	1	2	2		1		2	1		1	18	golf course
030309 other construction works				2			1		1			1		1		1	2	1	1	2			1	14	other construction works
011701 auto mobile servicing				3		2	2		1	1										2	1		1	13	auto mobile servicing
011709 other manufacturing				1		2			1	1			3					1		1		2	1	13	other manufacturing
150109 other cleaning and livestock process service		1		2					2		1			1						1	1		1	10	other cleaning and livestock process service
010804 petroleum/coal products		2				1				1							1		1	1	1		1	8	petroleum/coal products
060201 lumbering		1					1		i —		1									1			1	5	lumbering
080204 fuel retail				1	1	1	1										1				1		1	5	fuel retail
010101 meat/dairy products									i —			1						1			1		1	4	meat/dairy products
011301 machine products		2							i —						1					i –			1	4	machine products
030202 wooden house construction work		1						1			1												1	4	wooden house construction work
010902 glass products						1		1															1	3	glass products
080202 auto mobile retail															1								1	2	auto mobile retail
011403 electronics equipment and telecommunications apparatus																							1	1	electronics equipment and telecommunications apparatus
170209 others		1		1		2	1	2	4	2	1	2	2	2	1	1	1	2	2	1	1	2		31	others
050202 port cargo handling service				1		2	2	1	2	1	1	1	1	1		1	1				4	2		19	port cargo handling service
010409 other lumber and wood products				1		1	1				1	1	1		1	3	1	2			1	2		16	other lumber and wood products
020202 gravel digging						1	1	1	i —	2		2	1			1		1	3	2				15	gravel digging
030110 water supply/sewage construction work		3		1		2		1		1					1									9	water supply/sewage construction work
010109 other foods						i	1		1				1		1	1		1	1	1				8	other foods
010601 pulp/paper		3		1		1				1	1										1			8	pulp/paper
011209 other metal products		1		1	1	i	1	1	1					1						2		1		8	other metal products
030109 land consolidation civil engineering work		2						1						2						1	2			8	land consolidation civil engineering work
040309 other land cargo transportation service								2			1			1	2		1					1		8	other land cargo transportation service
050201 general harbor transportation service		1		1								1	1		1		1	1			1			8	general harbor transportation service
010402 plywood				2				1			1				1		1			1				7	plywood
011702 machine repair		1		1								1			1			1	1	1				7	machine repair
	ir——	i —	i —	i —	i —	i —	1	1	i —	7	7	1		1	1	1	1	1	1	1	1	1	7	٦i	i

080409 other commerce		1				2							1		1				1	1	7	other commerce
011101 nonferrous metals/rolling products		1			1				1		1	1	1								6	nonferrous metals/rolling products
030201 steel frame/reinforced concrete house construction work			1				1		1			1	1					1			6	steel frame/reinforced concrete house construction work
011001 steel/iron/rolling products							1										1		1	2	5	steel/iron/rolling products
030107 river civil engineering work			1				1	1							1	1					5	river civil engineering work
140309 other amusement service						1				1					1	1			1		5	other amusement service
011009 other steel products		2														1	1				4	other steel products
040302 specific truck transportation service									2					2							4	specific truck transportation service
060209 other forestry		1					1	1								1					4	other forestry
170201 security service							2		1								1				4	security service
010602 paper processing products			1							1				1							3	paper processing products
010899 other chemical products							1	1			1										3	other chemical products
030108 sand collapse prevention civil engineering work			1				1					1									3	sand collapse prevention civil engineering work
030111 port/seaside construction work				1						1									1		3	port/seaside construction work
040103 airline service															1		1	1			3	airline service
120109 other education/research service					1										1					1	3	other education/research service
010609 other pulp/paper processing products									1				1								2	other pulp/paper processing products
010801 non organic or organic chemical products								1				1									2	non organic or organic chemical products
010903 pottery products		1											1								2	pottery products
011109 other nonferrous metal products													1				1				2	other nonferrous metal products
011501 ship building		1										1									2	ship building
020209 other quarrying																1				1	2	other quarrying
020309 other mining				1						1											2	other mining
030203 building facility construction work																1				1	2	building facility construction work
040202 bus service										1								1			2	bus service
040409 other transportation service							2														2	other transportation service
080401 warehousing		1			1																2	warehousing
120101 auto mobile practical training					1														1		2	auto mobile practical training
140101 hotel		2																			2	hotel
160101 public office				1									1								2	public office
170101 dispatch service				1									1								2	dispatch service
010102 fishery products																		1			1	fishery products
010106 soft drinks							1														1	soft drinks
010203 weaving		1																			1	weaving

010204 dyeing	i –	1	i			i —			i —						1							1	dyeing
010501 wood furniture	1									$\square$		1										1	wood furniture
010503 fittings	1	ŀ								H				<u> </u>		1						1	fittings
010805 plastics products								1														1	plastics products
010904 fire resisting products			i							F	1											1	fire resisting products
010905 other ceramic products										$\square$				1								1	other ceramic products
011002 casting products									i —	m							1					1	casting products
011305 other precision machine products																		1				1	other precision machine products
011409 other electrical equipment	1							1		$\square$									i			1	other electrical equipment
011502 auto mobile products																				1		1	auto mobile products
011602 city gas service								1		$\square$												1	city gas service
011603 city water service											1											1	city water service
011703 cleaning													1									1	cleaning
020101 general coal mining															1							1	general coal mining
030102 tunnel construction work						1													1			1	tunnel construction work
030302 machinery/apparatus setting work											1											1	machinery/apparatus setting work
070201 fishery			1							$\square$												1	fishery
080101 all kinds of wholesale							1															1	all kinds of wholesale
080102 furniture/fittings wholesale				1						$\square$									i			1	furniture/fittings wholesale
080201 all kinds of retail						1																1	all kinds of retail
080203 furniture/fittings retail							1			$\square$									i			1	furniture/fittings retail
080205 newspaper retail						1																1	newspaper retail
130101 hospital										$\square$							1					1	hospital
130102 general clinic												1										1	general clinic
130201 social welfare facility											1											1	social welfare facility
140302 park and amusement park	i —									$\square$							1		i			1	park and amusement park
150105 livestock process service			1																			1	livestock process service
010103 agricultural food products										$\square$													agricultural food products
010104 bread/cake products																							bread/cake products
010105 alcoholic drinks																							alcoholic drinks
010201 silk-reeling																							silk-reeling
010202 cotton-spinning																							cotton-spinning
010209 other textile products										$\square$													other textile products
010301 over/under wear					1					$\square$													over/under wear
010309 other fiber products		i i			i –					$\square$													other fiber products
010502 metal furniture					1					$\square$													metal furniture
010509 other furniture	i –	i –			1					$\square$									j				other furniture
010701 printing service	1				1																		printing service
010702 bookbinding	i —				1	i —			i —										i		_		bookbinding
010709 other printing and	i –				1					$\square$									j			. <u> </u>	other printing and

bookbinding														bookbinding
010802 chemical fiber														chemical fiber
010803 pharmaceuticals						ĺ								pharmaceuticals
010806 rubber products	j								ī	i	i			rubber products
010807 leather products														leather products
010808 painting products	i					ĺ			i					painting 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
011203 metal press products														metal press products
011204 metal plating products														metal plating products
011302 measuring instruments														measuring instruments
011303 optical instruments														optical instruments
011304 watch products														watch products
011401 heavy electrical equipment														heavy electrical equipment
011402 electrical appliance														electrical appliance
011503 railway vehicle products														railway vehicle products
011509 other transport equipment products														other transport equipment products
011601 electric utility service														electric utility service
011609 other electric/gas/water service														other electric/gas/water service
011704 tobacco products														tobacco products
020109 other coal mining														other coal mining
020301 metal mining														metal mining
020302 petroleum mining														petroleum mining
030101 hydroelectric plant construction work														hydroelectric plant construction work
030103 subway construction work														subway construction work
030104 railway construction work														railway construction work
030105 bridge construction work														bridge construction work
030301 electricity/telecommunication work														electricity/telecommunication work
040101 railroad service														railroad service
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
050209 other harbor transportation service														other harbor transportation service

070209 other fishery																							other fishery
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
090209 other advertisement and mediator																							other advertisement and mediator
100101 movie production and delivery service																							movie production and delivery service
100102 movie theatre								]															movie theatre
100109 other movie/play service																							other movie/play service
110101 telecommunication service																							telecommunication service
120102 software service																							software service
130109 other medical treatment service																							other medical treatment service
130301 bathhouse																							bathhouse
130309 other health and hygiene service																							other health and hygiene service
140201 general restaurant																							general restaurant
140209 other restaurants																							other restaurants
150101 building maintenance service																							building maintenance service
150104 cremation service																							cremation service
170202 information processing service																							information processing service
total		66	66	52	61	43	50	38	36	48	48	37	50	48	47	47	40	57	47	54	59	994	total

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

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