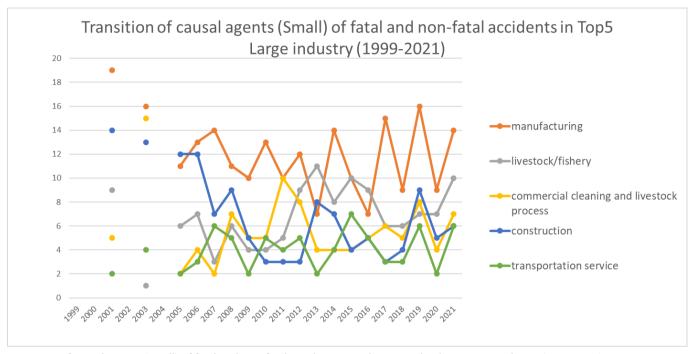
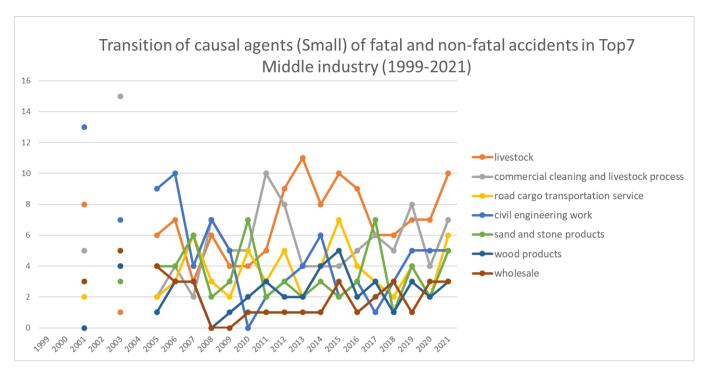
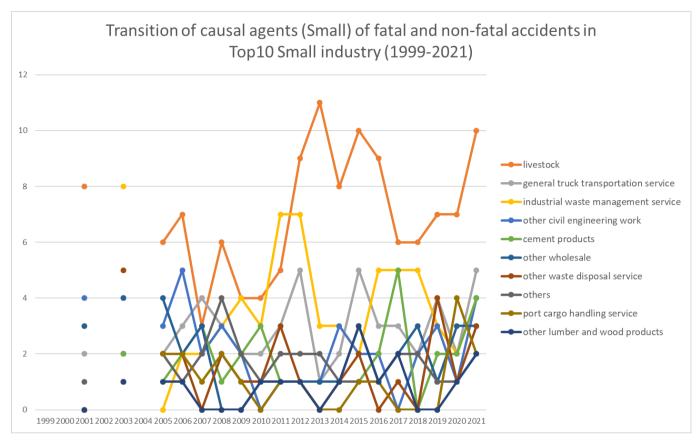
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 225 loader (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 225 loader in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 225 loader in Middle Industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 225 loader in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 225 loader 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			19		16		11	13	14	11	10	13	10	12	7	14	10	7	15	9	16	9	14	230	manufacturing
07	livestock/fishery			9		1		6	7	3	6	4	4	5	9	11	8	10	9	6	6	7	7	10	128	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	110	commercial cleaning and livestock process
03	construction			14		13		12	12	7	9	5	3	3	3	8	7	4	5	3	4	9	5	6	132	construction
04	transportation service			2		4		2	3	6	5	2	5	4	5	2	4	7	5	3	3	6	2	6	76	transportation service
08	commerce			8		8		6	10	5	2	2	1	3	2	2	3	4	6	3	4	2	6	4	81	commerce
17	others			1		1		3	1	2	6	2	2	2	2	2	2	1	1	2	3	1	1	2	37	others

05	cargo handling service		1	3	3	2	1	3	3	1	2	2		1	1	2	2	1		5	2	35	cargo handling service
02	mining		3	2	5	3	2		3		3	2		2	1	3	3	5	3	1	1	42	mining
06	agriculture		2	2		3		1	2	1	1	1		2	4		2		3	4	1	29	agriculture
12	education/research service					2										1				1	1	5	education/research service
14	hotel/restaurant/amusement		2	1	1	1	1				4	2	1	2	2	2	2		2	2		25	hotel/restaurant/amusement
	service																						service
13	health and hygiene service									1	1					1						3	health and hygiene service
16	public office				1									1								2	public office
09	financial																						financial
09	business/advertisement																						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	935	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 225 loader 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
0701	livestock			8		1		6	7	3	6	4	4	5	9	11	8	10	9	6	6	7	7	10	127	livestock
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	110	commercial cleaning and livestock process
0403	road cargo transportation service			2		4		2	3	6	3	2	5	3	5	2	4	7	4	3	2	4	2	6	69	road cargo transportation service
0301	civil engineering work			13		7		9	10	4	7	5		2	3	4	6	2	3	1	3	5	5	5	94	civil engineering work
0109	sand and stone products			3		3		4	4	6	2	3	7	2	3	2	3	2	3	7	1	4	2	5	66	sand and stone
0104	wood products					4		1	3	3		1	2	3	2	2	4	5	2	3	1	3	2	3	44	wood products
0801	wholesale			3		5		4	3	3			1	1	1	1	1	3	1	2	3	1	3	3	39	wholesale

1702	others		1	1	2	1	2	6	2	2	2	2	2	1	1	1	2	3	1	1	2	35	others
0117	other manufacturing		1	5	4	2		2	2		1	4		1			2	1	4	1	2	32	other manufacturing
0502	harbor transportation service		1	2	2	2	1	2	1		2	2		1	1	2	1			5	2	27	harbor transportation service
0110	steel making		2					1								1	1	2		1	2	10	steel making
0202	quarrying		3	2	4	3	2		3		2	2		1	1	3	3	5	3	1	1	39	quarrying
0302	construction work		1	4	3	1	3	1		2			3	1	1		1		2		1	24	construction work
0601	agriculture			2		2			1		1	1		2	4		1		2	4	1	21	agriculture
0804	other commerce		2			1	2							1		1				1	1	9	other commerce
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
0802	retail		3	3	2	6		2	2		2	1	1	1	1	4	1	1	1	2		33	retail
1403	other amusement service			1	1	1	1				4	2	1	2	2	2	2		2	2		23	other amusement service
0108	chemical products		4	1	1	1	2	3	3		1	1	1			1		1	1	1		22	chemical products
0303	other construction works			2		1		1		1	1		1		1	2	1	1	2			14	other construction works
0101	food products					1		2			1	1		1	1		2	1	2	1		13	food products
0106	pulp/paper processing products		3	2	1				1	2	1			1	1					1		13	pulp/paper processing products
0111	nonferrous metal making		1			1				1		1	1	2				1				8	nonferrous metal making
0501	land cargo handling service			1	1			1	2	1							1	1				8	land cargo handling

0602	forestry		2			1		1	1	1						1		1		8	forestry
0113	machine products		2										1				1			4	machine products
0401	railroad/water transportation/airline service														1		1	1			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
0114	electrical equipment products						1													1	electrical equipment products
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
					i	i		i	i	i	i	i	$\overline{}$				H		i	i	

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
1402	restaurant																						restaurant
	total		66	66	52	61	43	50	38	36	48	48	37	50	48	47	47	40	57	47	54	935	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 225 loader 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
070101	livestock			8		1		6	7	3	6	4	4	5	9	11	8	10	9	6	6	7	7	10	127	livestock
040301	general truck transportation service			2		4		2	3	4	3	2	2	3	5	1	2	5	3	3	2	4	2	5	57	general truck transportation service
150102	industrial waste management service			3		8			2	2	3	4	3	7	7	3	3	2	5	5	5	3	2	4	71	industrial waste management service
030199	other civil engineering work			4		2		3	5	2	3	2		1	1	1	3	2	2		2	3	1	4	41	other civil engineering work
010901	cement products					2		1	2	3	1	2	3	1	1	1	1	1	2	5		2	2	4	34	cement products
080109	other wholesale			3		4		4	2	3			1	1	1	1	1	3	1	2	3	1	3	3	37	other wholesale
150103	other waste disposal service					5		2	2		2	1	1	3	1		1	2		1		4	1	3	29	other waste disposal service
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				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

011709	other manufacturing			1	2			1	1			3					1		1		2	12	other manufacturing
011001	steel/iron/rolling products							1										1		1	2	5	steel/iron/rolling products
010909	other sand and stone products		2	1	2	2	2	1	1	3	1	2		1	1	1	2	1	2		1	26	other sand and stone products
030106	road construction work		4	2	3	5		2	1			2		2				1	1		1	24	road construction work
010401	lumbering			1		2	2		1		2	1	2	2	2		1	1	2	1	1	21	lumbering
060101	agriculture			2		2			1		1	1		2	4		1		2	4	1	21	agriculture
011209	other metal products		1	1		1	1	1											2		1	8	other metal products
040309	other land cargo transportation service						2			1			1	2		1					1	8	other land cargo transportation service
080409	other commerce		1				2							1		1				1	1	7	other commerce
120109	other education/research service					1										1					1	3	other education/research
020209	other quarrying																1				1	2	other quarrying
030203	building facility construction work																1				1	2	building facility construction work
011502	auto mobile products																				1	1	auto mobile products
080209	other retails		3	2		4		2	2		2	1	1		1	3	1	1	1	1		25	other retails
020201	quarrying		3	2	3	2	1		1			1		1		3	1	2	1	1		22	quarrying
140301	golf course			1	1	1					3	2	1	2	2		1		2	1		17	golf course
020202	gravel digging				1	1	1		2		2	1			1		1	3	2			15	gravel digging
030209	other building construction work			3	3	1	2						2		1				1			13	other building construction work
030309	other construction works			2		1		1			1		1		1	2	1	1	2			13	other construction works
011701	auto mobile servicing			3	2	2		1	1										2	1		12	auto mobile servicing
010809	chemical fertilizer products		2	1	1	1	1	2			1											9	chemical fertilizer products
	water supply/sewage																						water supply/sewage

030110	construction work		3	1	2		1		1					1							9	construction work
150109	other cleaning and livestock		1	2				2		1			1						1	1	9	other cleaning and livestock
130109	process service																					process service
010109	other foods					1		1				1		1	1		1	1	1		8	other foods
010601	pulp/paper		3	1	1				1	1										1	8	pulp/paper
030109	land consolidation civil		2				1						2						1	2	8	land consolidation civil
	engineering work																		Ľ			engineering work
050101	land cargo handling service			1	1			1	2	1							1	1			8	land cargo handling service
050201	general harbor transportation service		1	1							1	1		1		1	1			1	8	general harbor transportation
010402	plywood			2			1			1				1		1			1		7	plywood
010804	petroleum/coal products		2						1							1		1	1	1	7	petroleum/coal products
011702	machine repair		1	1							1			1			1	1	1		7	machine repair
011101	nonferrous metals/rolling		1			1				1		1	1	1							6	nonferrous metals/rolling
011101	products					'						ı	<u> </u>	<u> </u>							0	products
	steel frame/reinforced																					steel frame/reinforced
030201	concrete house construction			1				1		1			1	1					1		6	concrete house construction
	work																					work
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									2					2						4	specific truck transportation
	service																					service
060201	lumbering		1			1				1									1		4	lumbering
060209	other forestry		1					1	1								1				4	other forestry
080204	fuel retail			1		1										1				1	4	fuel retail
170201	security service							2		1								1			4	security service

010101	meat/dairy products							Ï			1						1			1	3	meat/dairy products
	paper processing products			1							1				1					<u> </u>	3	paper processing products
	other chemical products							1	1			1									3	other chemical products
	·											<u>'</u>										
011301	machine products		2																		3	machine products
030108	sand collapse prevention civil			1				1					1								3	sand collapse prevention civil
	engineering work																					engineering work
030111	port/seaside construction				1						1									1	3	port/seaside construction
	work																					work
030202	wooden house construction		1				1			1											3	wooden house construction
030202	work																					work
040103	airline service															1		1	1		3	airline service
	other pulp/paper processing																					other pulp/paper processing
010609	products									1				1							2	products
	non organic or organic																					non organic or organic
010801	chemical products								1				1								2	chemical products
010902	glass products				1		1														2	glass products
010903	pottery products		1											1							2	pottery products
	other nonferrous metal																					other nonferrous metal
011109	products													1				1			2	products
011501	ship building		1										1								2	ship building
			l.		1						1											
	other mining				1						<u> </u>										2	other mining
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

	<u> </u>			 					 							 				
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												1						1	dyeing
010501	wood furniture									1									1	wood furniture
010503	fittings													1					1	fittings
010805	plastics products						1												1	plastics products
010904	fire resisting products								1										1	fire resisting products
010905	other ceramic products											1							1	other ceramic products
011002	casting products														1				1	casting products
011305	other precision machine products															1			1	other precision machine products
011409	other electrical equipment						1												1	other electrical equipment
011602	city gas service						1												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	tunnel construction work
030302	machinery/apparatus setting work								1										1	machinery/apparatus settir work
070201	fishery		1																1	fishery
080101	all kinds of wholesale					1													1	all kinds of wholesale
080102	furniture/fittings wholesale			1															1	furniture/fittings wholesale
080201	all kinds of retail				1														1	all kinds of retail
080202	auto mobile retail												1						1	auto mobile retail

080203	furniture/fittings retail					1									1	furniture/fittings retail
080205	newspaper retail				1										1	newspaper retail
130101	hospital											1			1	hospital
130102	general clinic								1						1	general clinic
130201	social welfare facility							1							1	social welfare facility
140302	park and amusement park											1			1	park and amusement park
150105	livestock process service		1												1	livestock process service
010103	agricultural food products															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															other textile products
010301	over/under wear															over/under wear
010309	other fiber products															other fiber products
010502	metal furniture															metal furniture
010509	other furniture															other furniture
010701	printing service															printing service
010702	bookbinding															bookbinding
010709	other printing and															other printing and
010703	bookbinding															bookbinding
010802	chemical fiber															chemical fiber
010803	pharmaceuticals															pharmaceuticals
010806	rubber products															rubber products
010807	leather products															leather products
010808	painting products															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
011403	electronics equipment and telecommunications apparatus	electronics equipment and telecommunications
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													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																						information processing
11	service																						service
	total		66	66	52	61	43	50	38	36	48	48	37	50	48	47	47	40	57	47	54	935	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