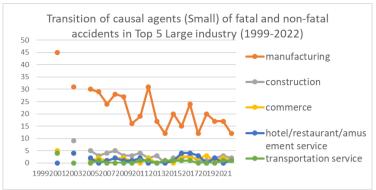
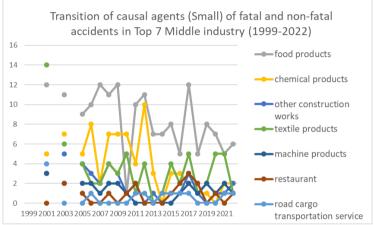
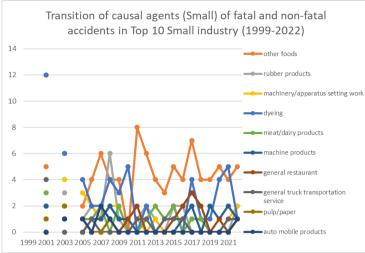
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 312 pressure vessel (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 312 pressure vessel in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 312 pressure vessel in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 312 pressure vessel in Small Industry (1999-2022)

Trans	ition of causal agents (Smail) of fai								-				<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			45		31		30	29	24	28	27	16	19	31	17	12	20	15	24	12	20	17	17	12	446	manufacturing
03	construction			4		9		5	3	4	5	3	3	4	2	3		2	2	3	1	1	2	3	2	61	construction
08	commerce			5		4		1	2	1	2	2	1		2		1		3	2	2	3	1	2	1	35	commerce
14	hotel/restaurant/amusement service					4		2		1	2	1	1	2				1	4	4	3		2		1	28	hotel/restaurant/amusement service
04	transportation service			4					1					1	1		1	1	1	1				1	1	13	transportation service
13	health and hygiene service			2		1		1	1	1	2		1	1	1	1	3	1	2		1	2				21	health and hygiene service
15	commercial cleaning and livestock process					2		2	1	3		1	2	2	1	3		1	1			1	1			21	commercial cleaning and livestock process
17	others			4		1			1						1	2		1	2	3	2					17	others
12	education/research service									1		2			2							1				6	education/research service
02	mining							1										1			1					3	mining
07	livestock/fishery								1								1			1						3	livestock/fishery
05	cargo handling service			1																		1				2	cargo handling service
06	agriculture																	1	1							2	agriculture
09	financial business/advertisement																										financial business/advertisement
10	movie/play service																										movie/play service
11	telecommunication service																										telecommunication service
16	public office																										public office
	total			65		52		42	39	35	39	36	24	29	41	26	18	29	31	38	22	29	23	23	17	658	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 312 pressure vessel in Large industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 312 pressure vessel in Middle industry (1999-2022)

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	2022	total	Middle industry

0101 food products		12	11					12				7	7	8	5	12	5	8	7	5			food products
0108 chemical products		5	7	5	8	2	7	7	7	4	10	3		3	3	2	1	1		2	2	79	chemical products
0303 other construction works		3	5	4	3	2	4	3	1	2		1		1	1	3	1		1	1	2	38	other construction works
0102 textile products		14	6	4	2	2	4	3	5	1	4		1	4	2	5	1	2	5	5	1	71	textile products
0113 machine products		3	2	2	2	1	2	2	1						1	2	1	2	1	2	1	25	machine products
1402 restaurant			2	1			1		1	2				1	2	3	2		1		1	17	restaurant
0403 road cargo transportation service		4			1					1	1		1	1	1	1				1	1	13	road cargo transportation service
0115 transport equipment products		1	1	1		2	1						1					3			1	11	transport equipment products
0106 pulp/paper processing products		2	2	1			1								1						1	8	pulp/paper processing products
0801 wholesale	1		1								1						1				1	4	wholesale
0802 retail		5	3		2	1	2	2	1		1		1		3	2	1	3	1	1		29	retail
0117 other manufacturing		1		3	2	2	2	1		1	1	3	1		2	2		2	3			26	other manufacturing
0112 metal products		3		2	1	1			2	1	1	1	2	2		1	3	1		2		23	metal products
1501 commercial cleaning and livestock process			2	2	1	3		1	2	2	1	3		1	1			1	1			21	commercial cleaning and livestock process
1702 others		4	1		1						1	2		1	2	3	2					17	others
1301 medical treatment service		1		1	1	1	1		1	1	1	1	3		1		1	2				16	medical treatment service
0302 construction work		1	 2	1			1		1	2	2	2		1				1		1		15	construction work
0109 sand and stone products		2	1	2	1	2		1						2					1			12	sand and stone products
0301 civil engineering work			2			2			1						1				1	1		8	civil engineering wor
1401 hotel			 1	1		1		1							2		1					7	hotel
0114 electrical equipment products			1		2						1	2										6	electrical equipment products
1201 education/research service						1		2			2							1				6	education/research service
0103 fiber products		1			1			1		1								1				5	fiber products
0111 nonferrous metal making		1									2				1							4	nonferrous metal making
1302 social welfare facility	1	1	1				1								1							4	social welfare facility
1403 other amusement service			1				1									1			1			4	other amusement service
0104 wood products										1				1						1		3	wood products
0202 quarrying				1										1			1					3	quarrying
0701 livestock					1								1			1						3	livestock
0110 steel making											1	1										2	steel making
0602 forestry														1	1							2	forestry
0804 other commerce				1																1		2	other commerce
0105 furniture																	1					1	furniture
																							electric/gas/water

0116	electric/gas/water service				1																		1	service
0501	land cargo handling service		1																				1	land cargo handling service
0502	harbor transportation service																		1				1	harbor transportation service
1303	other health and hygiene service														1								1	other health and hygiene service
0107	printing/bookbinding																							printing/bookbinding
0201	coal mining																							coal mining
0203	other mining																							other mining
	railroad/water transportation/airline service																							railroad/water transportation/airline service
0402	road passenger transport service																							road passenger transport service
0404	other transportation service																							other transportation service
0601	agriculture																							agriculture
0702	fishery																							fishery
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
1601	public office																							public office
1701	dispatch service																							dispatch service
	total		65	52	42	39	35	39	36	24	29	41	26	18	29	31	38	22	29	23	23	17	658	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 312 pressure vessel 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	2 total	Small industry
010109	other foods			5		6		2	4	6	4	4		8	6	4	3	5	4	7	4	4	5	4	5	90	other foods
010806	rubber products			2		3		1	2	1	6	1		1	2	1		2	2						2	26	rubber products
030302	machinery/apparatus setting work			1		4		3	2	1	2	2		1		1				1	1			1	2	22	machinery/apparatus setting work
010204	dyeing			12		6		4	2	2	4	3	5		2		1	2		4	1	1	4	5	1	59	dyeing
010101	meat/dairy products			3		1		1	1	2		2			1	2	1	2		1	1				1	19	meat/dairy products
011301	machine products			2		1			1	1	2	1	1						1	2		2	1	2	1	18	machine products
	general restaurant					2		1			1		1	2				1	2	3	2		1		1	17	general restaurant
040301	general truck transportation service			4					1					1	1		1	1	1					1	1	12	general truck transportation service
010601	pulp/paper			1		2		1			1														1	6	pulp/paper
011502	auto mobile products					1		1		2	1														1	6	auto mobile products

080109 other wholesale			1														1				1	3	other wholesale
010801 non organic or organic chemical products		1	3	1	6	1	1	4	4		5	1		1	1							29	non organic or organic chemical products
011209 other metal products		2		2	1	1			2	1	1	1	2	2		1	3	1		2		22	other metal products
080209 other retails		2	1			1	1	2	1						1	1	1	3	1	1		16	other retails
150101 building maintenance service			1	2	1	3		1	2	1	1	3						1				16	building maintenance service
170209 others		3	1		1						1	2		1	2	3	2					16	others
010102 fishery products		2	1	1	1		3	1	1	1	2			1		1						15	fishery products
010104 bread/cake products		1		1	2	1	3	2					2		1			1	1			15	bread/cake products
030309 other construction works		2	1	1		1	2	1	1	1				1	1	2			1		1	15	other construction works
010106 soft drinks			2	2	1						2		1			2		2		1		13	soft drinks
010103 agricultural food products		1	 1	1		3		3										1	1			11	agricultural food products
010899 other chemical products		1		1					3		1	1				2				1		10	other chemical products
011709 other manufacturing		1		1	2	1	1	1				2							1			10	other manufacturing
130101 hospital		1		1	1	1	1			1	1	1	2									10	hospital
011701 auto mobile servicing				1		1	1				1	1				1		1	1			8	auto mobile servicing
030209 other building construction work			2	1			1		1	1	1							1				8	other building construction work
010901 cement products		1	1	2	1	1		1						1								7	cement products
080204 fuel retail		2					1				1		1		1	1						7	fuel retail
140101 hotel			1	1	1	1		1							2		1					7	hotel
010105 alcoholic drinks	i			1	1		1			1		1				1						6	alcoholic drinks
010209 other textile products		1			1						2			2	1							6	other textile products
010803 pharmaceuticals	i		1	1			i –	1		1	1						1					6	pharmaceuticals
011305 other precision machine products		1	1	1	1			1									1					6	other precision machine products
120109 other education/research service						1		2			2							1				6	other education/research service
010805 plastics products		1								2								1		1		5	plastics products
011703 cleaning					1					1			1		1	1		1				5	cleaning
150102 industrial waste management service			1							1				1	1				1			5	industrial waste management service
010203 weaving															1	1		1	1			4	weaving
130109 other medical treatment service									1								1	2				4	other medical treatment service
130201 social welfare facility		1	1				1								1							4	social welfare facility
010309 other fiber products					1					1								1				3	other fiber products
010909 other sand and stone products		1												1					1			3	other sand and stone products
011403 electronics equipment and telecommunications apparatus					1							2										3	electronics equipment and telecommunications apparatus
011501 ship building		1											1					1				3	ship building
011702 machine repair				1											1				1			3	machine repair

030102 tunnel construction work			1					1											1	3	tunnel construction work
030199 other civil engineering work						2												1		3	other civil engineering work
030201 steel frame/reinforced concrete house construction work									1	1			1							3	steel frame/reinforced concrete house construction work
030203 building facility construction work											2								1	3	building facility construction work
070101 livestock					1							1			1					3	livestock
080201 all kinds of retail			1		1									1						3	all kinds of retail
080202 auto mobile retail		1	1		1															3	auto mobile retail
140309 other amusement service			1												1			1		3	other amusement service
010301 over/under wear		1					1													2	over/under wear
010401 lumbering									1										1	2	lumbering
010602 paper processing products		1												1						2	paper processing products
010809 chemical fertilizer products				1						1										2	chemical fertilizer products
011001 steel/iron/rolling products										1	1									2	steel/iron/rolling products
011101 nonferrous metals/rolling products		1								1										2	nonferrous metals/rolling products
011401 heavy electrical equipment			1		1															2	heavy electrical equipment
011509 other transport equipment products																	2			2	other transport equipment products
020201 quarrying				1									1							2	quarrying
060201 lumbering													1	1						2	lumbering
080409 other commerce				1															1	2	other commerce
130102 general clinic												1		1						2	general clinic
010201 silk-reeling		1																		1	silk-reeling
010202 cotton-spinning									1											1	cotton-spinning
010409 other lumber and wood products													1							1	other lumber and wood products
010502 metal furniture																1				1	metal furniture
010802 chemical fiber							1													1	chemical fiber
010902 glass products						1														1	glass products
010905 other ceramic products					1															1	other ceramic products
011102 nonferrous metals casting products														1						1	nonferrous metals casting products
011109 other nonferrous metal products										1										1	other nonferrous metal products
011203 metal press products		1																		1	metal press products
011302 measuring instruments				1																1	measuring instruments
011409 other electrical equipment										1										1	other electrical equipment
011602 city gas service				1																1	city gas service
020202 gravel digging																1				1	gravel digging
030106 road construction work			1																	1	road construction work
port/seaside construction																					port/seaside construction

				п	п	ш		п	п		 	 п	П.	П	Ш	п	П	П	п	п.	
030111	work												1							1	work
030202	wooden house construction		1																	1	wooden house construction work
030301	WOLK						1													1	electricity/telecommunication work
040303	cargo/ light automobile transportation service													1						1	cargo/ light automobile transportation service
050101	land cargo handling service		1																	1	land cargo handling service
050202	port cargo handling service															1				1	port cargo handling service
080101	all kinds of wholesale										1									1	all kinds of wholesale
130301	bathhouse												1							1	bathhouse
140301	golf course							1												1	golf course
170201	security service		 1																	1	security service
010402	2 plywood																				plywood
010501	wood furniture																				wood furniture
010503	l fittings	i													Ī					i —	fittings
010509	other furniture																				other furniture
010609	other pulp/paper processing products																				other pulp/paper processing products
010701	printing service											<u> </u>			j					i —	printing service
	bookbinding									i					i					i –	bookbinding
010709	other printing and bookbinding																				other printing and bookbinding
010804	petroleum/coal products																			i	petroleum/coal products
010807	leather products											<u> </u>		Ē	<u> </u>					i –	leather products
	painting products																				painting products
-	B pottery products											<u> </u>			j					i —	pottery products
	fire resisting products																				fire resisting products
-	casting products													— -	Ī					i	casting products
	other steel products									i										i –	other steel products
011201	western tableware/cutting tool products																				western tableware/cutting tool products
011202	screw products																				screw products
011204	metal plating products																				metal plating products
011303	optical instruments																			i	optical instruments
-	watch products									imi		İ			Ī						watch products
	electrical appliance														i						electrical appliance
L	railway vehicle products									i — i					i				1		railway vehicle products
	electric utility service									i — i											electric utility service
	city water service									i											city water service
	other electric/gas/water service																				other electric/gas/water service
	tobacco products									i — i											tobacco products
																				i —	

02010	general coal mining															general coal mining
020109	other coal mining															other coal mining
020209	other quarrying															other quarrying
020301	I metal mining									Ī						metal mining
020302	2 petroleum mining															petroleum mining
020309	other mining									İ						other mining
030101	hydroelectric plant construction work															hydroelectric plant construction work
030103	3 subway construction work															subway construction work
030104	a railway construction work															railway construction work
030105	5 bridge construction work															bridge construction work
030107	7 river civil engineering work															river civil engineering work
030108	sand collapse prevention civil engineering work															sand collapse prevention civil engineering work
	land consolidation civil engineering work															land consolidation civil engineering work
	water supply/sewage construction work															water supply/sewage construction work
040101	I railroad service															railroad service
040102	2 water transportation service															water transportation service
040103	3 airline service															airline service
040201	l taxi service															taxi service
	2 bus service															bus service
	other passenger transport service															other passenger transport service
	specific truck transportation service															specific truck transportation service
040309	other land cargo transportation service															other land cargo transportation service
040409	O other transportation service															other transportation service
	general harbor transportation service															general harbor transportation service
050209	other harbor transportation service															other harbor transportation service
060101	agriculture															agriculture
060209	other forestry															other forestry
07020	l fishery															fishery
070209	other fishery															other fishery
080102	2 furniture/fittings wholesale															furniture/fittings wholesale
080203	3 furniture/fittings retail															furniture/fittings retail
080205	5 newspaper retail															newspaper retail
080301	l haircut															haircut
080302	2 beauty salon															beauty salon
080401	l warehousing									i				 		warehousing
<u> </u>				iiiiiii		i		1	i			-ii	—	 	i	

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
120101	auto mobile practical training																							auto mobile practical training
	software service																							software service
130309	other health and hygiene service																							other health and hygiene service
140209	other restaurants																							other restaurants
140302	park and amusement park																							park and amusement park
150103	other waste disposal service																							other waste disposal service
150104	cremation service																							cremation service
	livestock process service																							livestock process service
150109	other cleaning and livestock process service																							other cleaning and livestock process service
160101	public office																							public office
	dispatch service																							dispatch service
170202	information processing service																							information processing service
	total		65	52	42	39	35	39	36	24	29	41	26	18	29	31	38	22	29	23	23	17	658	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