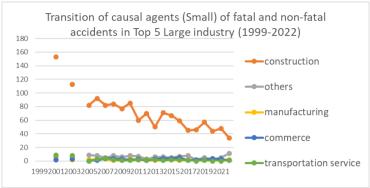
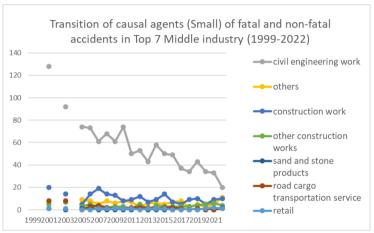
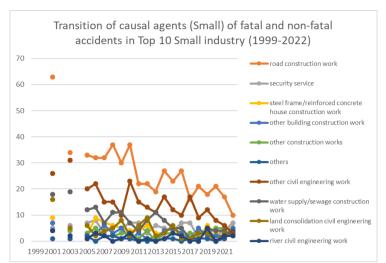
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 144 hardening machine (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 144 hardening machine in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 144 hardening machine in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 144 hardening machine in Small Industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 144 hardening machine in Large industry (1999-2022)

11ans	tion of causal agents (Small) of fat																										
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
03	construction			153		113		82	92	82	84	77	85	60	70	50	71	67	59	45	46	57	44	48	34	1,419	construction
17	others			6		7		9	8	5	8	6	8	7	3	6	6	5	7	8	2	5	2	5	11	124	others
01	manufacturing			5		2		2	3	3	1	1	3	2	1	1	1	2	1	2	1	1	2	2	2	38	manufacturing
08	commerce			2		3			1	4	4	3	2	3	1	3	4	4	5	1	2	2	4	3	1	52	commerce
04	transportation service			9		8			3	4	2	1	1	2	2	2	1	2	2	1		1			1	42	transportation service
14	hotel/restaurant/amusement service					2		2	1						1	1			2							9	hotel/restaurant/amusement service
15	commercial cleaning and livestock process					1			2									2	1							6	commercial cleaning and livestock process
06	agriculture									1						1		1	1		1					5	agriculture
05	cargo handling service									1								1	1							3	cargo handling service
02	mining					1																				1	mining
07	livestock/fishery							1																		1	livestock/fishery
09	financial business/advertisement								1																	1	financial business/advertisement
10	movie/play service																										movie/play service
11	telecommunication service																										telecommunication service
12	education/research service																										education/research service
13	health and hygiene service																										health and hygiene service
16	public office																										public office
	total			175		137		96	111	100	99	88	99	74	78	64	83	84	79	57	52	66	52	58	49	1,701	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 144 hardening machine 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
																											civil engineering

hers enstruction work her construction works		6		17																					
				<u> </u>		9	8	5	8	6	8	7	3	6	6	5	7	8	2	5	2	5	11	124	others
her construction works	$\neg$	20		14		5	14	19	14	13	8	9	12	7	9	14	7	5	9	10	5	9	10	213	construction work
1		5		7		3	5	2	2	3	3	1	5		4	3	3	3	3	4	5	6	4	71	other construction works
nd and stone products		1				1	2						1										2	7	sand and stone products
ad cargo transportation service		8		8			3	4	2	1	1	2	2	2	1	2	2	1		1			1	41	road cargo transportation service
tail		1		1				1	1	1	1	1		1	1	1					1	2	1	14	retail
her commerce		1		2			1	2	1	2	1	2	1	2	3	3	4	1	1	2	3			32	other commerce
her manufacturing		1		1		1		2			1	1		1		1	1				1			11	other manufacturing
her amusement service				1		2	1						1	1			2							8	other amusement service
holesale								1	2								1		1			1		6	wholesale
mmercial cleaning and livestock ocess				1			2									2	1							6	commercial cleaning and livestock process
achine products				1					1		1										1	1		5	machine products
ansport equipment products		1					1				1	1				1								5	transport equipment products
etal products		1													1			1		1				4	metal products
nd cargo handling service								1								1	1							3	land cargo handling service
riculture								1									1		1					3	agriculture
restry														1		1								2	forestry
od products																			1					1	food products
xtile products																		1						1	textile products
ood products								1																1	wood products
emical products		1																						1	chemical products
eel making										1														1	steel making
onferrous metal making																						1		1	nonferrous metal making
arrying				1																				1	quarrying
ad passenger transport service		1																						1	road passenger transport service
vestock						1																		1	livestock
vertisement and mediator							1																	1	advertisement and mediator
otel				1																				1	hotel
per products																									fiber products
rniture																									furniture
nlp/paper processing products																									pulp/paper processing products
inting/bookbinding																									printing/bookbinding
	mer amusement service  molesale  mmercial cleaning and livestock ocess  achine products  mansport equipment products  etal products  and cargo handling service  riculture  restry  od products  tile products  emical products  end making  mferrous metal making  arrying  and passenger transport service  restock  vertisement and mediator  ttel  per products  miture  lp/paper processing products	ner amusement service  nolesale  mmercial cleaning and livestock ocess achine products  etal products  nd cargo handling service riculture restry od products actile products emical products emical products end making arrying arrying ad passenger transport service restock vertisement and mediator tel products miture restry  restry od products restry r	ner amusement service  nolesale  mmercial cleaning and livestock ocess achine products  insport equipment products  and cargo handling service riculture restry od products actile products ac	ner amusement service nolesale mmercial cleaning and livestock ocess achine products Insport equipment products Indicargo handling service riculture restry od products ctile products red making mferrous metal making arrying ad passenger transport service restock vertisement and mediator tel products miture Indicargo handling service Indicargo	ner amusement service   1   1   1   1   1   1   1   1   1	ner amusement service    1	ner amusement service						rer amusement service	rer amusement service	rer amusement service										

0114	electrical equipment products																							electrical equipment products
0116	electric/gas/water service																							electric/gas/water service
0201	coal mining																							coal mining
0203	other mining																							other mining
0401	railroad/water transportation/airline service																							railroad/water transportation/airline service
0404	other transportation service																							other transportation service
0502	harbor transportation service																							harbor transportation service
0702	fishery																							fishery
0803	haircut/beauty salon																							haircut/beauty salon
0901	financial business																							financial business
1001	movie/play service																							movie/play service
1101	telecommunication service																							telecommunication service
1201	education/research service																							education/research service
1301	medical treatment service																							medical treatment service
1302	social welfare facility																							social welfare facility
1303	other health and hygiene service																							other health and hygiene service
1402	restaurant																							restaurant
	public office																							public office
1701	dispatch service																							dispatch service
	total		175	137	96	111	100	99	88	99	74	78	64	83	84	79	57	52	66	52	58	49	1,701	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 144 hardening machine 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
030106	road construction work			63		34		33	32	32	37	30	37	22	22	19	27	23	27	16	21	18	21	17	10	541	road construction work
170201	security service			5		6		7	8	3	6	5	7	7	3	6	5	4	7	7	1	4	2	4	7	104	security service
	steel frame/reinforced concrete house construction work			9		5		2	9	7	6	5	4	4	6	3	3	3	2	3	1	6	3	5	5	91	steel frame/reinforced concrete house construction work
030209	other building construction work			7		4		1	3	6	3	5	1	3	1	1	4	5	3	1	5	2	2	2	5	64	other building construction work
030309	other construction works			4		4		3	5	2	2	3	3	1	4		3	3	2	3	3	3	5	5	4	62	other construction works
170209	others			1		1		2		2	2	1	1				1	1		1	1	1		1	4	20	others
	other civil engineering work			26		31		20	22	15	15	10	23	15	13	11	17	12	10	17	9	12	8	6	3	295	other civil engineering work
030110	water supply/sewage construction work			18		19		12	13	7	11	11	7	4	8	11	8	5	5	1		5	4	4	2	155	water supply/sewage construction work
												1	1		1	1		1					1		1	1	

030109 land consolidation civil engineering work		16		5		6	2	4	5	8	2	6	9	2	3	6	$\ _1$	1	3	3		3	2	87	land consolidation civil engineering work
030107 river civil engineering work		4		2		1	3	2		1	3		1		1	3	2			5		2	2	32	river civil engineering work
040301 general truck transportation service		7		5			3	2	2	1		2	1	2	1	2	2	1					1	32	general truck transportation service
080209 other retails				1				1			1	1			1	1					1	1	1	9	other retails
030105 bridge construction work				1		2	1										1	1	1				1	8	bridge construction work
010909 other sand and stone products						1	1						1										1	4	other sand and stone products
010901 cement products		1					1																1	3	cement products
wooden house construction work		2		4		1		5	4	3	2		3		1	4	2	1	2	1				35	wooden house construction work
080409 other commerce		1		2			1	2	1	2	1	2	1	2	3	3	4	1	1	2	3			32	other commerce
030203 building facility construction work		2		1		1	2	1	1		1	2	2	3	1	2			1	1		2		23	building facility construction work
011701 auto mobile servicing		1				1		2			1	1				1								7	auto mobile servicing
140301 golf course				1		2	1				<u> </u>		1	1			1							7	golf course
030301   electricity/telecommunication   work		1		2											1					1		1		6	electricity/telecommunication work
080109 other wholesale								1	2								1		1			1		6	other wholesale
011301 machine products				1					1		1										1	1		5	machine products
030108 sand collapse prevention civil engineering work								1			2						2							5	sand collapse prevention civil engineering work
040309 other land cargo transportation service				2				1			1									1				5	other land cargo transportation service
030111 port/seaside construction work										1		1			1						1			4	port/seaside construction work
040302 specific truck transportation service		1		1				1					1											4	specific truck transportation service
150102 industrial waste management service				1			1									1	1							4	industrial waste management service
other transport equipment products		1					1				1													3	other transport equipment products
011702 machine repair				1							<u> </u>						1	<u> </u>			1			3	machine repair
030102 tunnel construction work	_ _		<u> </u>	<u> </u>		<u> </u>		<u> </u>	<u></u>	<u> </u>	<u> </u>	2		<u> </u>	<u> </u>	<u> </u>	1		<u> </u>		<u></u>	<u></u>		3	tunnel construction work
030104 railway construction work		1	<u> </u>	<u> </u>				<u> </u>			<u> </u>			<u> </u>	<u> </u>	1	<u> </u>	<u> </u>	<u> </u>		<u> </u>	1		3	railway construction work
machinery/apparatus setting work				1									1				1							3	machinery/apparatus setting work
050101 land cargo handling service								1								1	1							3	land cargo handling service
060101 agriculture								1									1		1					3	agriculture
080204 fuel retail		1							1	1														3	fuel retail
011203 metal press products											<u> </u>				1					1				2	metal press products
011209 other metal products		1																1						2	other metal products
011502 auto mobile products											<u> </u>	1				1								2	auto mobile products
030103 subway construction work	_ _	_		<u> </u>		<u> </u>	<u> </u>			1	<u> </u>	<u> </u>	1	<u> </u>		<u> </u>	<u> </u>		2	subway construction work					
	II	II	II	II	II	II	II	II	II		II	11	11	II	П	II	II	II	II	II	II	11	II	II	П

060209 other forestry											1	1						2	other forestry
010109 other foods															1			1	other foods
010203 weaving														1				1	weaving
010409 other lumber and wood products						1												1	other lumber and wood products
010804 petroleum/coal products		1																1	petroleum/coal products
011001 steel/iron/rolling products							1											1	steel/iron/rolling products
011102 nonferrous metals casting products																	1	1	nonferrous metals casting products
011709 other manufacturing											1							1	other manufacturing
020201 quarrying			1															1	quarrying
040202 bus service		1																1	bus service
070101 livestock				1														1	livestock
080201 all kinds of retail																	1	1	all kinds of retail
080202 auto mobile retail											1							1	auto mobile retail
090209 other advertisement and mediator					1													1	other advertisement and mediator
140101 hotel			1															1	hotel
140302 park and amusement park													1					1	park and amusement park
150101 building maintenance service												1						1	building maintenance service
150103 other waste disposal service					1													1	other waste disposal service
010101 meat/dairy products																			meat/dairy products
010102 fishery products						İ					i								fishery products
010103 agricultural food products																			agricultural food products
010104 bread/cake products																			bread/cake products
010105 alcoholic drinks																			alcoholic drinks
010106 soft drinks						İ													soft drinks
010201 silk-reeling																			silk-reeling
010202 cotton-spinning										П									cotton-spinning
010204 dyeing										П									dyeing
010209 other textile products										П				П					other textile products
010301 over/under wear																			over/under wear
010309 other fiber products										П									other fiber products
010401 lumbering				i		İ			$\Box$	М				$\Box$		$\Box$			lumbering
010402 plywood				i		i		П	$\Box$	H				$\Box$		$\Box$			plywood
010501 wood furniture				i		İ		П		$\Box$				H		H			wood furniture
010502 metal furniture	$\equiv$							Т		М			=	$\Box$					metal furniture
010503 fittings	=							Т		H			=	$\Box$		$\Box$			fittings
010509 other furniture	$\equiv$							Т		$\vdash$				$\Box$		$\Box$			other furniture
010601 pulp/paper	$\equiv$							Т		М			=	$\Box$					pulp/paper
010602 paper processing products								Ш		$\vdash$				$\vdash$		$\vdash$			paper processing products
010609 other pulp/paper processing products																			other pulp/paper processing products

010701  printing service																	printing service
010702 bookbinding			İ														bookbinding
010709 other printing and bookbinding																	other printing and bookbinding
010801 non organic or organic chemical products																	non organic or organic chemical products
010802 chemical fiber																	chemical fiber
010803 pharmaceuticals																	pharmaceuticals
010805 plastics products																	plastics products
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
011002 casting products																	casting products
011009 other steel products																	other steel products
011101 nonferrous metals/rolling products																	nonferrous metals/rolling 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
011204 metal plating products																	metal plating products
011302 measuring instruments																	measuring instruments
011303 optical instruments																	optical instruments
011304 watch products																	watch products
other precision machine products																	other precision machine products
011401 heavy electrical equipment																	heavy electrical equipment
011402 electrical appliance				$\Box$						$\Box$	Ti						electrical appliance
electronics equipment and telecommunications apparatus																	electronics equipment and telecommunications apparatus
011409 other electrical equipment																	other electrical equipment
011501 ship building																	ship building
011503 railway vehicle products														$\equiv$	$\overline{}$		railway vehicle products
011601 electric utility service			ĺ	一			$\overline{\Box}$			一					$\overline{}$	$\Box$	electric utility service
011602 city gas service			i	H		$\Box$	$\Box$		$\Box$	$\Box$					$\equiv$	$\sqcap$	city gas service
011603 city water service			i	H	$\Box$	$\Box$	一			一					$\equiv$	$\sqcap$	city water service
		i	i	=	<del></del>	=			$\equiv$	=					=	=	i i

011609 other electric/gas/water service									othe	er electric/gas/water ice
011703 cleaning									clear	ning
011704 tobacco products									toba	cco products
020101 general coal mining								i	gene	eral coal mining
020109 other coal mining									othe	r coal mining
020202 gravel digging									grav	el digging
020209 other quarrying									othe	r quarrying
020301 metal mining									meta	al mining
020302 petroleum mining									petro	oleum mining
020309 other mining									othe	r mining
030101 hydroelectric plant construction work										roelectric plant struction work
040101 railroad service									railr	oad service
040102 water transportation service									wate	er transportation service
040103 airline service									airli	ne service
040201 taxi service									taxi	service
040209 other passenger transport service									othe	er passenger transport ice
040303 cargo/ light automobile transportation service										co/ light automobile sportation service
040409 other transportation service									othe	r transportation service
050201 general harbor transportation service									gene	eral harbor transportation ice
050202 port cargo handling service									port	cargo handling service
050209 other harbor transportation service									othe	r harbor transportation ice
060201 lumbering									luml	bering
070201 fishery									fishe	ery
070209 other fishery									othe	r fishery
080101 all kinds of wholesale									all k	inds of wholesale
080102 furniture/fittings wholesale									furn	iture/fittings wholesale
080203 furniture/fittings retail									furn	iture/fittings retail
080205 newspaper retail									new	spaper retail
080301 haircut									haire	cut
080302 beauty salon									beau	ıty salon
080401 warehousing									ware	ehousing
090101 banking/trust business									bank	king/trust business
090102 stock/commodity trade business									busi	
090103 insurance business									insu	rance business
090109 other financial business										r financial business
090201 traveling service										eling service
movie production and									mov	rie production and

100101 delivery service																							delivery service
100102 movie theatre								<del> </del>															movie theatre
100109 other movie/play service																							other movie/play service
110101 telecommunication service																							telecommunication service
[120101] auto mobile practical training	g																						auto mobile practical training
120102 software service																							software service
other education/research service																							other education/research service
130101 hospital																							hospital
130102 general clinic																							general clinic
other medical treatment service																							other medical treatment service
130201 social welfare facility																							social welfare facility
130301 bathhouse																							bathhouse
other health and hygiene service																							other health and hygiene service
140201 general restaurant																							general restaurant
140209 other restaurants																							other restaurants
140309 other amusement service																							other amusement service
150104 cremation service																							cremation service
150105 livestock process service																							livestock process service
other cleaning and livestock process service																							other cleaning and livestock process service
160101 public office																							public office
170101 dispatch service																							dispatch service
170202 information processing service																							information processing service
total		175	137	96	111	100	99	88	99	74	78	64	83	84	79	57	52	66	52	58	49	1,701	total

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

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