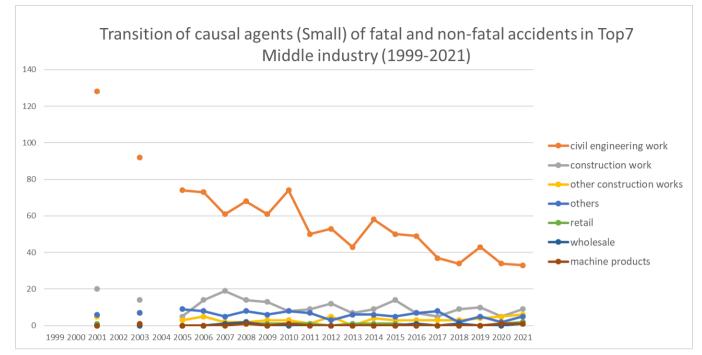
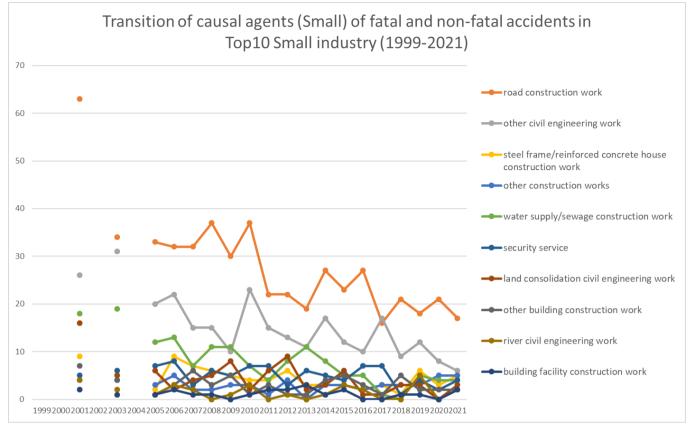


Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 144 hardening machine in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 144 hardening machine in Middle Industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 144 hardening machine in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 144 hardening machine 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
03	construction			153		113		82	92	82	84	77	85	60	70	50	71	67	59	45	46	57	44	48	1,385	construction
17	others			6		7		9	8	5	8	6	8	7	3	6	6	5	7	8	2	5	2	5	113	others
08	commerce			2		3			1	4	4	3	2	3	1	3	4	4	5	1	2	2	4	3	51	commerce
01	manufacturing			5		2		2	3	3	1	1	3	2	1	1	1	2	1	2	1	1	2	2	36	manufacturing
04	transportation service			9		8			3	4	2	1	1	2	2	2	1	2	2	1		1			41	transportation service
14	hotel/restaurant/amusement					2		2	1						1	1			2						9	hotel/restaurant/amusement
	service					2		2											2							service
	commercial cleaning and																									commercial cleaning and

15	livestock process			1		2									2	1						6	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					1																1	financial
	business/advertisement																					•	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	1,652	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 144 hardening machine 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
0301	civil engineering work			128		92		74	73	61	68	61	74	50	53	43	58	50	49	37	34	43	34	33	1,115	civil engineering work
0302	construction work			20		14		5	14	19	14	13	8	9	12	7	9	14	7	5	9	10	5	9	203	construction work
0303	other construction works			5		7		3	5	2	2	3	3	1	5		4	3	3	3	3	4	5	6	67	other construction works
1702	others			6		7		9	8	5	8	6	8	7	3	6	6	5	7	8	2	5	2	5	113	others
0802	retail			1		1				1	1	1	1	1		1	1	1					1	2	13	retail
0801	wholesale									1	2								1		1			1	6	wholesale
0113	machine products					1					1		1										1	1	5	machine products
0111	nonferrous metal making																							1	1	nonferrous metal making

0403	road cargo transportation service	8	8		3	4	2	1	1	2	2	2	1	2	2	1		1		40	road cargo
0804	other commerce	1	2		1	2	1	2	1	2	1	2	3	3	4	1	1	2	3	32	transportation service other commerce
0117	other manufacturing	1	1	1		2			1	1		1		1	1				1	11	other manufacturing
1403	other amusement service		1	2	1						1	1			2					8	other amusement service
1501	commercial cleaning and livestock process		1		2									2	1					6	commercial cleaning and livestock process
0109	sand and stone products	1		1	2						1									5	sand and stone products
0115	transport equipment products	1			1				1	1				1						5	transport equipment products
0112	metal products	1											1			1		1		4	metal products
0501	land cargo handling service					1								1	1					3	land cargo handling service
0601	agriculture					1									1		1			3	agriculture
0602	forestry											1		1						2	forestry
0101	food products																1			1	food products
0102	textile products															1				1	textile products
0104	wood products					1														1	wood products
0108	chemical products	1																		1	chemical products
0110	steel making							1												1	steel making
0202	quarrying		1																	1	quarrying
0402	road passenger transport service	1																		1	road passenger transport service
0701	livestock			1																1	livestock
																					advertisement and

0902	advertisement and mediator					1								1	mediator
1401	hotel			1										1	hotel
0103	fiber products														fiber products
0105	furniture														furniture
0106	pulp/paper processing products														pulp/paper processing products
0107	printing/bookbinding														printing/bookbinding
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
															education/research

1201	education/research service																						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
1601	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	1,652	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 144 hardening machine 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
030106	road construction work			63		34		33	32	32	37	30	37	22	22	19	27	23	27	16	21	18	21	17	531	road construction work
030199	other civil engineering work			26		31		20	22	15	15	10	23	15	13	11	17	12	10	17	9	12	8	6	292	other civil engineering work
030201	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	86	steel frame/reinforced concrete house construction work
030309	other construction works			4		4		3	5	2	2	3	3	1	4		3	3	2	3	3	3	5	5	58	other construction works
030110	water supply/sewage construction work			18		19		12	13	7	11	11	7	4	8	11	8	5	5	1		5	4	4	153	water supply/sewage construction work
170201	security service			5		6		7	8	3	6	5	7	7	3	6	5	4	7	7	1	4	2	4	97	security service
030109	land consolidation civil engineering work			16		5		6	2	4	5	8	2	6	9	2	3	6	1	1	3	3		3	85	land consolidation civil engineering 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	59	other building construction work

030107	river civil engineering work		4	2	1	3	2		1	3		1		1	3	2			5		2	30	river civil engineering work
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
170209	others		1	1	2		2	2	1	1				1	1		1	1	1		1	16	others
080209	other retails			1			1			1	1			1	1					1	1	8	other retails
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
030104	railway construction work		1												1						1	3	railway construction work
011102	nonferrous metals casting products																				1	1	nonferrous metals casting products
080201	all kinds of retail																				1	1	all kinds of retail
030202	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
040301	general truck transportation service		7	5		3	2	2	1		2	1	2	1	2	2	1					31	general truck transportation service
011701	auto mobile servicing		1		1		2			1	1				1							7	auto mobile servicing
030105	bridge construction work			1	2	1										1	1	1				7	bridge construction work
140301	golf course			1	2	1						1	1			1						7	golf course
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
010909	other sand and stone products				1	1						1									3	other sand and stone products
011509	other transport equipment products		1			1				1											3	other transport equipment products
011702	machine repair			1												1				1	3	machine repair
030102	tunnel construction work										2					1					3	tunnel construction work
030302	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
010901	cement products		1			1															2	cement products
011203	metal press products													1					1		2	metal press products
011209	other metal products		1														1				2	other metal products
011502	auto mobile products										1				1						2	auto mobile products
030103	subway construction work													1			1				2	subway construction work
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

011709	other manufacturing									1					1	other manufacturing
020201	quarrying			1											1	quarrying
040202	bus service		1												1	bus service
070101	livestock				1										1	livestock
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															fishery products
010103	agricultural food products															agricultural food products
010104	bread/cake products															bread/cake products
010105	alcoholic drinks															alcoholic drinks
010106	soft drinks															soft drinks
010201	silk-reeling															silk-reeling
010202	cotton-spinning															cotton-spinning
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
010501	wood furniture															wood furniture

010502 metal furniture										metal furniture
010503 fittings										fittings
010509 other furniture										other furniture
010601 pulp/paper										pulp/paper
010602 paper processing proc	lucts									paper processing products
010609 other pulp/paper proc	essing									other pulp/paper processing products
010701 printing service										printing service
010702 bookbinding										bookbinding
010709 other printing and bookbinding										other printing and bookbinding
010801 non organic or organi chemical products	c 🛛									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 pro	ducts									chemical fertilizer products
010899 other chemical produ	:ts									other chemical products
010902 glass products										glass products
010903 pottery products										pottery products
010904 fire resisting products										fire resisting products
010905 other ceramic produc	.s									other ceramic products
011002 casting products										casting products
011009 other steel products										other steel products

011101 products p		n						 			
other nonferous metal products other nonferous metal products other nonferous metal products 011100 vestem tableware/cutting tool products other nonferous metal products other nonferous metal products 011201 vestem tableware/cutting tool products other nonferous metal products other nonferous metal products other nonferous metal products 011202 serve products other nonferous metal products other nonferous metal products other nonferous metal products 011202 serve products other nonferous metal products other nonferous metal products other nonferous metal products 011204 metal plating products other nonferous metal products other nonferous metal products other nonferous metal products 011204 metal plating products other nonferous metal plating products other nonferous metal plating products other nonferous metal plating products 011204 metal plating products other nonferous metal plating products other nonferous metal plating products other nonferous metal plating products 011303 optical instruments optical instruments optical instruments other nonferous metal plating products 011402 hear optical instruments optical instruments optical instruments	011101	-									nonferrous metals/rolling products
01120 tool products 0	011109	other nonferrous metal									other nonferrous metal products
11204 metal plating products Image: Ima	011201	-									western tableware/cutting tool products
11302 measuring instruments Image: Imag	011202	screw products									screw products
011303 optical instruments I <td< td=""><td>011204</td><td>metal plating products</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>metal plating products</td></td<>	011204	metal plating products									metal plating products
011304 watch products 0	011302	measuring instruments									measuring instruments
other precision machine 011305 other precision machine products 011401 heavy electrical equipment 011402 electronics equipment and 011403 telecommunications apparatus 011403 other electrical equipment 011403 telecommunications apparatus 011404 telecommunications apparatus 011405 telecommunications apparatus 011404 telecommunications apparatus 011405 telecommunications apparatus 011404 telecommunications apparatus 011405 telecommunications apparatus 011405 telecommunications apparatus 011404 telecommunications apparatus 011405 telecommunications apparatus 011406 telecommunications apparatus 011405 telecommunications apparatus 011601 electricuti	011303	optical instruments									optical instruments
11305 products products products products products products products 01140 heavy electrical equipment I	011304	watch products									watch products
011402 electrical appliance I <t< td=""><td>011305</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>other precision machine products</td></t<>	011305	-									other precision machine products
electronics equipment and 011403 belectronics equipment and 011403 belectronics equipment and 011403 belectronics equipment 011403 belectrical equipment 011603 city gas service 011603 city water service 011603 belectric/gas/water	011401	heavy electrical equipment									heavy electrical equipment
011403 telecommunications apparatus 011409 other electrical equipment al aparatus aparatus aparatus aparatus aparatus aparatus aparatus aparatus aparatus aparatus	011402	electrical appliance									electrical appliance
011501 ship building I <td>011403</td> <td>telecommunications</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	011403	telecommunications									
011503 railway vehicle products 011601 electric utility service 011602 city gas service 011603 city water service 011603 city water service 011609 other electric/gas/water	011409	other electrical equipment									other electrical equipment
011601 electric utility service 011602 city gas service 011603 city water service 011609 other electric/gas/water	011501	ship building									ship building
011602 city gas service Image: Constraint of the service	011503	railway vehicle products									railway vehicle products
011603 city water service city water service <td>011601</td> <td>electric utility service</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>electric utility service</td>	011601	electric utility service									electric utility service
011609 011609 <t< td=""><td>011602</td><td>city gas service</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>city gas service</td></t<>	011602	city gas service									city gas service
	011603	city water service									city water service
service service service	011609	other electric/gas/water service									other electric/gas/water service
011703 cleaning Cleaning Cleaning Cleaning Cleaning Cleaning	011703	cleaning									cleaning

011704	tobacco products										tobacco products
020101	general coal mining										 general coal mining
020109	other coal mining										 other coal mining
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
	railroad service										 railroad service
	water transportation service										 water transportation service
	airline service										 airline 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
040409	other transportation service										 other transportation service
050201	general harbor transportation service										general harbor transportation service
050202	port cargo handling service										 port cargo handling service
050209	other harbor transportation service										other harbor transportation service
060201	lumbering										 lumbering
070201	fishery										 fishery
070209	other fishery										other fishery

<u> </u>	i	i —	;;	ii	 	 	—i	 		 	—i-	 	 	 -i	i	 iiii
080101	all kinds of wholesale															all kinds of wholesale
080102	furniture/fittings wholesale															furniture/fittings wholesale
080203	furniture/fittings retail															furniture/fittings retail
080205	newspaper retail															newspaper retail
080301	haircut															haircut
080302	beauty salon															beauty salon
080401	warehousing															warehousing
090101	banking/trust business															banking/trust business
090102	stock/commodity trade															stock/commodity trade
	business															business
090103	insurance business															insurance business
090109	other financial business															other financial business
090201	traveling service															traveling service
100101	movie production and															movie production and
	delivery service															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
120102	software service															software service
120109	other education/research															 other education/research
	service															service
130101	hospital															hospital
130102	general clinic															general clinic
130109	other medical treatment															other medical treatment
150109	service															service

130201	social welfare facility																						social welfare facility
130301	bathhouse																						bathhouse
130309	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
150109	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																						information processing
	service																						service
	total		175	137	96	111	100	99	88	99	74	78	64	83	84	79	57	52	66	52	58	1,652	total

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

https://www.jisha.or.jp/english/statistics/202212_03.html