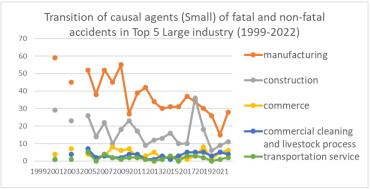
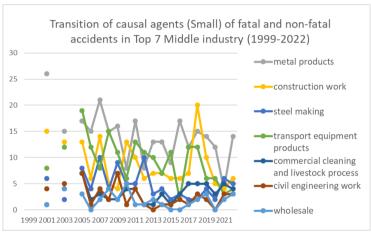
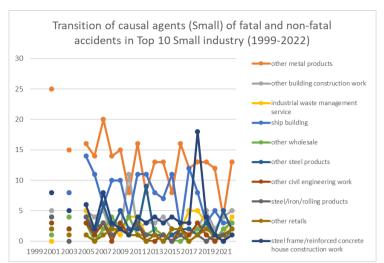
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 331 gas welding equipment (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 331 gas welding equipment in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 331 gas welding equipment in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 331 gas welding equipment in Small Industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 331 gas welding equipment in Large industry (1999-2022)

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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			59		45		52	38	52	45	55	27	39	42	34	30	31	31	37	34	30	26	15	28	750	manufacturing
03	construction			29		23		26	14	22	10	18	23	17	9	12	13	16	10	10	36	18	6	9	11	332	construction
08	commerce			4		7		4	2	3	8	6	7	2	3	5	2	2	3	1	3	8	1	5	6	82	commerce
15	commercial cleaning and livestock process			1		4		7	2	3	2	2	4	4	1	1	3	1	3	5	5	5	3	5	4	65	commercial cleaning and livestock process
04	transportation service			1		1		5		4	2	1	2	2	1		1	3		3	3	2		1	2	34	transportation service
17	others			1		1		1			2	2					2		2		1				1	13	others
02	mining					1		1				1		1		1	1						2		1	9	mining
05	cargo handling service			1		1		1			1				1							1				6	cargo handling service
09	financial business/advertisement																						2			2	financial business/advertisement
14	hotel/restaurant/amusement service								1										1							2	hotel/restaurant/amusement service
06	agriculture												1													1	agriculture
07	livestock/fishery																1									1	livestock/fishery
11	telecommunication service													1												1	telecommunication service
12	education/research service																	1								1	education/research service
13	health and hygiene service																					1				1	health and hygiene service
10	movie/play service																										movie/play service
16	public office																										public office
	total			96		83		97	57	84	70	85	64	66	57	53	53	54	50	56	82	65	40	35	53	1,300	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 331 gas welding equipment in Middle industry (1999-2022)

code	Middle industry	1999	2000 200	1 200	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	3 2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Middle industry
0112	metal products		26		15		17	15	21	15	16	8	17	8	13	13	9	11 / 1	12	15	14	12	4	14	281	metal products

0302	construction work		15	13	13	6	14	5	4	13	10	6	7	7	6	6	7	20	10	5	4	6	177	construction work
0110	steel making		6	2	8	4	10	4	9	5	5	10	3	4	2	3	2	2	4	2	6	5	96	steel making
ll .	transport equipment products		8	12	19	12	8	15	11	6	13	11	10	7	11	2	12	12	6	6	3	4	188	transport equipment products
1501	commercial cleaning and livestock process		1	4	7	2	3	2	2	4	4	1	1	3	1	3	5	5	5	3	5	4	65	commercial cleaning and livestock process
0301	civil engineering work		4	5	7	1	4	2	7	1	4	1		1	1	2	1	3	2		3	3	52	civil engineering work
0801	wholesale		1	4	3		2	4	2	5	1	1	2	1			1	2	3		2	3	37	wholesale
0802	retail		2	2	1	2	1	4	2	1	1		2	1	2	3		1	3	1	1	3	33	retail
0303	other construction works		10	5	6	7	4	3	7	9	3	2	5	5	9	2	2	13	6	1	2	2	103	other construction works
0117	other manufacturing		11	9	2	1	5	5	8	3	3	6	3	2	5	2	3	2	3	4		2	79	other manufacturing
0113	machine products		5	4	4	5	4	3	7	4		2	5	3	3	4	7	1	2	1		1	65	machine products
0403	road cargo transportation service		1	1	3		4	2	1	1	1			1	2		2	3	1		1	1	25	road cargo transportation service
0114	electrical equipment products		1	1	1		2	2				2				3	1				1	1	15	electrical equipment products
1702	others		1	1	1			2	2					2		2		1				1	13	others
0111	nonferrous metal making						1		2	1	1	3										1	9	nonferrous metal making
0202	quarrying			1	1				1		1		1	1						2		1	9	quarrying
0401	railroad/water transportation/airline service				1						1						1					1	4	railroad/water transportation/airline service
0804	other commerce		1	1			i		2	1	i	2	1						2	Ī	2		12	other commerce
0109	sand and stone products			1	1		1							1	1				1	1	1		8	sand and stone products
0402	road passenger transport service									1		1			1				1				4	road passenger transport service
0502	harbor transportation service				1			1				1							1				4	harbor transportation service
0101	food products		1	1				1															3	food products
0104	wood products								2														2	wood products
0108	chemical products		1															1					2	chemical products
0501	land cargo handling service		1	1																			2	land cargo handling service
0105	furniture					1																	1	furniture
0107	printing/bookbinding																	1					1	printing/bookbinding
0404	other transportation service				1																		1	other transportation service
	forestry									1													1	forestry
0701	livestock													1									1	livestock
0901	financial business																			1			1	financial business
0902	advertisement and mediator																			1			1	advertisement and mediator

1101	telecommunication service										1												1	telecommunication service
1201	education/research service														1									education/research service
1302	social welfare facility																		1				1	social welfare facility
1402	restaurant															1							1	restaurant
1403	other amusement service					1																		other amusement service
0102	textile products																							textile products
0103	fiber products																							fiber products
0106	pulp/paper processing products																							pulp/paper processing products
0116	electric/gas/water service																							electric/gas/water service
0201	coal mining																							coal mining
0203	other mining																							other mining
	agriculture																							agriculture
	fishery																							fishery
0803	haircut/beauty salon																							haircut/beauty salon
1001	movie/play service																							movie/play service
1301	medical treatment service																							medical treatment service
1303	other health and hygiene service																							other health and hygiene service
1401	hotel																							hotel
1601	public office																							public office
1701	dispatch service																							dispatch service
	total		96	83	97	57	84	70	85	64	66	57	53	53	54	50	56	82	65	40	35	53	1,300	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 331 gas welding equipment 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
011209	other metal products			25		15		16	14	20	14	15	8	16	8	13	13	8	16	12	13	13	12	4	13	268	other metal products
030209	other building construction work			5		8		5	4	5	1	2	11	2	3	3	4	2	2	2	2	5	2	4	5	77	other building construction work
150102	industrial waste management service					4		5	2	3	2	1	4	4	1	1	1		2	5	5	3	1	1	4	49	industrial waste management service
011501	ship building			4		8		14	11	6	10	10	4	11	11	8	7	11	2	12	8	3	5	3	3	151	ship building
080109	other wholesale			1		4		3		2	4	2	4	1	1	2	1			1	2	3		2	3	36	other wholesale
011009	other steel products			2		2		4	1	6	2	5	2	2	9	1		1	2	2	1	3	1	5	2	53	other steel products
030199	other civil engineering work			3		2		3	1	3		3	1	3			1		2	1	3	1		1	2	30	other civil engineering work
011001	steel/iron/rolling products			4				4	2	3	1	2	1	3	1	1	1		1		1		1	1	2	29	steel/iron/rolling products
080209	other retails			2		1		1		1	2	2	1	1		1		2	2		1	2	1		2	22	other retails
030201	steel frame/reinforced concrete house construction			8		5		6	2	8	3	2	1	4	3	4	3	4	3	3	18	4	1		1	83	steel frame/reinforced concrete house construction

193990   December construction works																							work
Service with the products of t	011301 machine products	5	4	4	4	3	3	7	3		2	4	3	3	3	7	1	2	1		1	60	machine products
work work	030309 other construction works	6	4	4	3		1	1	3	2	1	5	4	4	2	1	3	4		2	1	51	other construction works
Service servic		3		1	4	2	2	6	6	1	1		1	5		1	1	1			1	36	
Service Service	011502 auto mobile products	4	4	3	1	1	5		2	2		2					3	1	1		1	30	auto mobile products
10   10   10   10   10   10   10   10	040301 general truck transportation service	1		3		4	2	1	1	1			1	1		2	2	1		1	1	22	general truck transportation service
170200   phase	011702 machine repair	5	1	1	1		1	1		1	2	2		1		1					1	18	machine repair
101709  Onter manufacturing	011002 casting products				1	1	1	2	2			1	3	1				1			1	14	casting products
	170209 others	1	1	1			2	1					2		2		1				1	12	others
Quarying	011709 other manufacturing	1				1	1				2	1		1				2	1		1	11	other manufacturing
18   18   18   18   18   18   18   18	011203 metal press products			1	1		1	1						1	1		2	1			1	10	metal press products
01140   other electrical equipment	020201 quarrying		1	1				1		1		1	1						1		1	8	quarrying
Water supply/sewage construction work	080202 auto mobile retail		1				2			ĺ		1	1					1			1	7	auto mobile retail
Construction work	011409 other electrical equipment			1			2			i					1						1	5	other electrical equipment
	construction work	1	2																	1	1	5	
101101   auto mobile servicing	011101 nonferrous metals/rolling products								1		1										1	3	
Security	040101 railroad service			1																	1	2	railroad service
15013  work	011701 auto mobile servicing	5	8	1		4	3	7	3	2	2		2	3	2	2	2	1	3			50	auto mobile servicing
1   1   1   2   1   1   2   1   1   2   1   1		1	1	1		2											9	1	1			16	
Note	150103 other waste disposal service	1		1				1		ĺ			2	1	1			2	2	2		13	other waste disposal service
11109   other nonferrous metal products	030203 building facility construction work	1		1		1			1	2					1	1		1	2			11	
1	080409 other commerce	1	1					2	1	ĺ	2							1		2		10	other commerce
1						1		2		1	2											6	II I
1	011509 other transport equipment products			1		1		1									1	2				6	
101902   glass products		1		1			1			2						1						6	II I
other precision machine products  other precision products  other precision products  other precision products  other precision products  othe	011401 heavy electrical equipment	1				2										1				1		5	heavy electrical equipment
	010902 glass products			1									1					1		1		4	glass products
030106 road construction work         1         2         1         1         4         road construction work           030111 port/seaside construction work         2         1         1         1         4         port/seaside construction work           050202 port cargo handling service         1         1         1         1         4         port cargo handling service           080204 fuel retail         2         1         1         1         1         4         fuel retail	011305 other precision machine products				1	1			1			1										4	
030106 road construction work         1         2         1         1         4         road construction work           030111 port/seaside construction work         2         1         1         1         4         port/seaside construction work           050202 port cargo handling service         1         1         1         1         4         port cargo handling service           080204 fuel retail         2         1         1         1         1         4         fuel retail	011402 electrical appliance		1								1				2							4	electrical appliance
	030106 road construction work		M	1				2						1								4	
080204 fuel retail 2 1 1 4 fuel retail	030111 port/seaside construction work			2							1							1				4	
080204 fuel retail 2 1 1 4 fuel retail	050202 port cargo handling service	ĺ		1			1		ĺ	i	1		i					1	ĺ			4	port cargo handling service
010901 cement products 1 1 3 cement products	080204 fuel retail	ĺ			2				ĺ	i	ĺ		İ		1					1		4	
	010901 cement products		1			1													1			3	cement products

030109 land	d consolidation civil gineering work						1				1										1		land consolidation civil engineering work
011204 met	tal plating products		1				1															2	metal plating products
030104 rail	Iway construction work			1				1														2	railway construction work
030105 brid	dge construction work							1	1			$\overline{\Box}$										2	bridge construction work
040201 taxi	i service														1				1			2	taxi service
040202 bus										1		1										2	bus service
040302 spec	ecific truck transportation vice														1			1				2	specific truck transportation service
050101 land	d cargo handling service		1	1																		2	land cargo handling service
080401 war	rehousing												1						1			2	warehousing
150109 other	er cleaning and livestock ocess service				1																1	2	other cleaning and livesto process service
010104 brea	ad/cake products			1																		1	bread/cake products
010106 soft	t drinks							1														1	soft drinks
010109 othe	er foods		1																			1	other foods
010401 lum	nbering								1													1	lumbering
010402 plyv	wood								1													1	plywood
010502 met	tal furniture					1																1	metal furniture
010701 prin	nting service																	1				1	printing service
010805 plas	stics products		1																			1	plastics products
010899 othe	er chemical products																	1				1	other chemical products
010909 othe	ner sand and stone oducts														1							1	other sand and stone products
011202 scre	ew products										1											1	screw products
011302 mea	asuring instruments											$\overline{\Box}$				1						1	measuring instruments
011403 tele	ctronics equipment and ecommunications paratus											1										1	electronics equipment and telecommunications apparatus
011503 rail	lway vehicle products				1																	1	railway vehicle products
020202 grav	vel digging																			1		1	gravel digging
030101 hyd	droelectric plant astruction work								1													1	hydroelectric plant construction work
030107 rive	er civil engineering work				1																	1	river civil engineering wo
	ter transportation service																1					1	water transportation servi
040103 airli	line service										1											1	airline service
040309 other	ner land cargo nsportation service			1																		1	other land cargo transportation service
040409 othe	er transportation service				1																	1	other transportation servi
060209 othe	er forestry									1												1	other forestry
070101 live	estock													1								1	livestock
080101 all l	kinds of wholesale									1												1	all kinds of wholesale
090103 inst	urance business																			1		1	insurance business
othe	er advertisement and	Ī										一			$\overline{\Box}$			$\overline{}$				1	other advertisement and

mediator																	mediator
110101 telecommunication service							1									1	telecommunication service
other education/research service									1	1						1	other education/research service
130201 social welfare facility													1			1	social welfare facility
140201 general restaurant											1					1	general restaurant
140302 park and amusement park				1												1	park and amusement park
150101 building maintenance service															1	1	building maintenance service
170201 security service						1										1	security service
010101 meat/dairy products																	meat/dairy products
010102 fishery products																	fishery products
010103 agricultural food products																	agricultural food products
010105 alcoholic drinks																	alcoholic drinks
010201 silk-reeling																	silk-reeling
010202 cotton-spinning																	cotton-spinning
010203 weaving																	weaving
010204 dyeing																	dyeing
010209 other textile products																	other textile products
010301 over/under wear																	over/under wear
010309 other fiber products													Ti				other fiber products
010409 other lumber and wood products																	other lumber and wood products
010501 wood furniture																	wood furniture
010503 fittings																	fittings
010509 other furniture																	other furniture
010601 pulp/paper																	pulp/paper
010602 paper processing products																	paper processing products
010609 other pulp/paper processing products																	other pulp/paper processing products
010702 bookbinding																	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
010804 petroleum/coal products																	petroleum/coal products
010806 rubber products																	rubber products
010807 leather products																	leather products
010808 painting products																	painting products
010809 chemical fertilizer products																	chemical fertilizer products
010903 pottery products											Ti	T				ĺ	pottery products
010904 fire resisting products											Ti		<u> </u>			ĺ	fire resisting products
											i		Ti				1

010905 other ceramic products															other ceramic products
011102 nonferrous metals casting products															nonferrous metals casting products
011201 western tableware/cutting tool products															western tableware/cutting tool products
011303 optical instruments															optical instruments
011304 watch products															watch products
011601 electric utility service															electric utility service
011602 city gas service															city gas service
011603 city water service															city water service
011609 other electric/gas/water service															other electric/gas/water service
011703 cleaning															cleaning
011704 tobacco products															tobacco products
020101 general coal mining															general coal mining
020109 other coal mining															other coal mining
020209 other quarrying															other quarrying
020301 metal mining															metal mining
020302 petroleum mining															petroleum mining
020309 other mining															other mining
030102 tunnel construction work															tunnel construction work
030103 subway construction work				i					İ						subway construction work
030108 sand collapse prevention civil engineering work															sand collapse prevention civil engineering work
040209 other passenger transport service															other passenger transport
040303 cargo/ light automobile transportation service															cargo/ light automobile transportation service
050201 general harbor transportation service															general harbor transportation service
050209 other harbor transportation service															other harbor transportation service
060101 agriculture					i										agriculture
060201 lumbering		_			i		$\dashv \vdash$	╗	i				1		lumbering
070201 fishery									i					i	fishery
070209 other fishery										$\exists \vdash$				i	other fishery
080102 furniture/fittings wholesale									i					i	furniture/fittings wholesale
080201 all kinds of retail					i				i		i			itti	all kinds of retail
080203 furniture/fittings retail														i	furniture/fittings retail
080205 newspaper retail										$\exists \vdash$				i	newspaper retail
080301 haircut									i					i	haircut
080302 beauty salon	$\dashv \vdash$	_	i		╁		$\dashv \vdash$	_	i	$\dashv \vdash$			╁	╬	beauty salon
090101 banking/trust business	$\dashv \vdash$	_			╁		$\dashv \vdash$	_	i				╁	╁═┼	banking/trust business
090102 stock/commodity trade								_	i						stock/commodity trade
090102															

	business																							business
090109	other financial business																							other financial business
090201	traveling service																							traveling service
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
120101	auto mobile practical training																							auto mobile practical training
120102	software service																							software service
130101	hospital																							hospital
130102	general clinic																							general clinic
130109	other medical treatment service																							other medical treatment service
130301	bathhouse																							bathhouse
130309	other health and hygiene service																							other health and hygiene service
140101	hotel																							hotel
140209	other restaurants																							other restaurants
140301	golf course																							golf course
140309	other amusement service																							other amusement service
150104	cremation service																							cremation service
150105	livestock process service																							livestock process service
	public office																							public office
170101	dispatch service																							dispatch service
170202	information processing service																							information processing service
	total		96	83	97	57	84	70	85	64	66	57	53	53	54	50	56	82	65	40	35	53	1,300	total

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

https://www.jisha.or.jp/english/statistics/202311 12.html