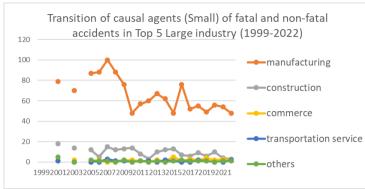
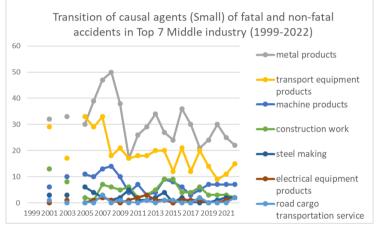
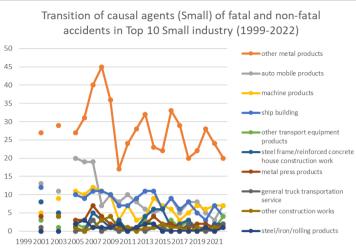
## Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 332 arc welding equipment (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 332 arc welding equipment in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 332 arc welding equipment in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 332 arc welding equipment in Small Industry (1999-2022)

Transition of causal agents (Small) of fa	atal and	non-	fatal a	accide	nts as	code	no. 33	32 arc	weldii	ng equ	ipmer	nt in L	arge i	ndust	ry (19	99-20	(22)				
code Large industry	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	20

	Large industry							<u> </u>	<u> </u>							2016	2017	7 2018	2019	2020	0 2021	2022	total	Large industry
01	manufacturing		79	70	87	88	100	88	76	48	57	60	67	62	48	76	52	55	49	56	54	48	1,320	manufacturing
03	construction		18	14	12	5	15	12	13	14	8	3	10	12	13	7	6	9	6	10	4	3	194	construction
08	commerce		1	2		2		1	2	2	1		2	1	5	1	3	2	4	2	3	2	36	commerce
04	transportation service		1				3	1	1		1	1		2	1			2	1			2	16	transportation service
17	others		5		2	1	1		2		1		1		1	2	1	1	1		1	1	21	others
07	livestock/fishery			1					1	1	1		2					1			1	1	9	livestock/fishery
02	mining		1			1															1	1	4	mining
15	commercial cleaning and livestock process						1		1				2	1	1		1	2	1	1	2		13	commercial cleaning and livestock process
05	cargo handling service													1					2				3	cargo handling service
14	hotel/restaurant/amusement service		2		1																		3	hotel/restaurant/amusement service
06	agriculture																	1					1	agriculture
13	health and hygiene service															1							1	health and hygiene service
09	financial business/advertisement																							financial business/advertisement
10	movie/play service																							movie/play service
11	telecommunication service																							telecommunication service
12	education/research service																							education/research service
16	public office																							public office
	total		107	87	102	97	120	102	96	65	69	64	84	79	69	87	63	73	64	69	66	58	1,621	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 332 arc welding equipment 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
0112 metal products			32		33		30	39	47	50	38	17	26	29	34	27	24	36	30	21	24	30	25	22	614	metal products

0115	transport equipment products	29	17	33	29	33	18	21	17	18	18	20	20	12	21	12	20	14	9	11	15	387	transport equipment products
0113	machine products	6	10	11	10	13	14	10	4	7	3	4	9	8	6	3	5	7	7	7	7	151	machine products
0302	construction work	13	8	2	1	7	6	5	6	2	3	5	9	9	4	4	6	3	3	3	2	101	construction work
0110	steel making	3	3	6	4	2	1	2	5	1	1	2	4		2				1	2	2	41	steel making
0114	electrical equipment products		1		1	2	1		1	2	3	1	1		1	1	1			1	2	19	electrical equipment products
0403	road cargo transportation service	1				3		1			1		1	1			2				2	12	road cargo transportation service
0303	other construction works	4	4	7	2	3	5	8	6	6		5	2	2	3	1	1	2	2	1	1	65	other construction works
0802	retail	1	1		1		1	2		1		2		3	1		1	2	2	3	1	22	retail
1702	others	4		2	1	1		1		1				1	2		1			1	1	16	others
0804	other commerce		1											2		1	1	1			1	7	other commerce
0202	quarrying	1			1															1	1	4	quarrying
0702	fishery									1											1	2	fishery
0117	other manufacturing	7	2	3	3	2	3	3	1	1	2	6		2	3	4	3	2	7	8		62	other manufacturing
0301	civil engineering work	1	2	3	2	5	1		2				1	2		1	2	1	5			28	civil engineering work
0109	sand and stone products	1	1	2	1		1	1	1	1	1		1	1	1		2	1	1			17	sand and stone products
1501	commercial cleaning and livestock process					1		1				2	1	1		1	2	1	1	2		13	commercial cleaning and livestock process
0108	chemical products			1					1						2		3					7	chemical products
0701	livestock		1					1	1			2					1			1		7	livestock
0801	wholesale				1				2				1			2		1				7	wholesale
0101	food products	1	1			1		1		1	1											6	food products
0111	nonferrous metal making		1								1				4							6	nonferrous metal making
1701	dispatch service	1						1				1				1		1				5	dispatch service
0102	textile products		1															1	1			3	textile products
0104	wood products										1					2						3	wood products
0105	furniture				1				1					1								3	furniture
0402	road passenger transport service						1			1								1				3	road passenger transport service
0501	land cargo handling service												1					2				3	land cargo handling service
1403	other amusement service	2		1																		3	other amusement service
0107	printing/bookbinding			1																		1	printing/bookbinding
	railroad/water transportation/airline service												1									1	railroad/water transportation/airline service
0601	agriculture																1					1	agriculture
1301	medical treatment service														1							1	medical treatment

																								service
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
0404	other transportation service																							other transportation service
0502	harbor transportation service																							harbor transportation service
0602	forestry																							forestry
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
1201	education/research service																							education/research service
1302	social welfare facility																							social welfare facility
1303	other health and hygiene service																							other health and hygiene service
1401	hotel																							hotel
1402	restaurant																							restaurant
1601	public office																							public office
	total		107	87	102	97	120	102	96	65	69	64	84	79	69	87	63	73	64	69	66	58	1,621	total

## Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 332 arc 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			27		29		27	31	40	45	36	17	24	28	32	23	22	33	29	20	22	28	24	20	557	other metal products
011502	auto mobile products			13		11		20	19	19	7	10	8	10	8	6	5	6	9	5	8	8	5	3	7	187	auto mobile products
011301	machine products			5		9		11	10	12	11	10	3	7	3	4	9	7	6	3	5	7	6	7	7	142	machine products
	ship building			12		5		10	9	11	11	10	7	7	9	11	11	6	9	6	8	5	3	7	4	161	ship building
011509	other transport equipment products			3		1		2	1	3		1	2	1	1	3	2		3	1	3	1	1	1	4	34	other transport equipment products
	steel frame/reinforced concrete house construction work			8		5		1		5	3	1	3		1	4	6	6	1	2	3			2	2	53	steel frame/reinforced concrete house construction work
	metal press products			4		4		3	3	7	4	2		1	1	2	4	2	2	1	1	2	2	1	2	48	metal press products
040301	general truck transportation service			1						3		1			1		1	1			2				2	12	general truck transportation service
030309	other construction works					4		1		1	3	4	1	1		1	1	2	1	1		1	1	1	1	25	other construction works

011001	steel/iron/rolling products				2	3	1	1	1	2		1	2	2						1		1	17	steel/iron/rolling products
	other steel products		2	2	3	1				3				2		1					1	1	16	other steel products
170209	-		4		2	1	1		1		1				1	2		1			1	1	16	others
080209	other retails		1												3	1		1	1	2	2	1	12	other retails
080409	other commerce			1	i —	i —									2	i	1	1	1			1	7	other commerce
011401	heavy electrical equipment						1	1		1	1			1		i						1	6	heavy electrical equipment
	electrical appliance			1	i –								1			i	1					1	4	electrical appliance
	quarrying		1			1					1										1	1	4	quarrying
-	fishery				i —	i –										i						1	1	fishery
	auto mobile servicing		2	2	2	3	2	1	2	1		1	3			1	3	1	2	5	7		38	auto mobile servicing
	machinery/apparatus setting work		2		4	1	1	1	3	5	4		3			2			1	1			28	machinery/apparatus setting work
030209	other building construction work		2	1		1	1	2	1	2	1	2		2	3	1	1	1	1	2	1		25	other building construction work
030203	building facility construction work		2	2	1		1	1	3	1	1			1		1	1	2	1	1			19	building facility construction work
011702	machine repair		4		1			1	1				2		1	2				1	1		14	machine repair
030199	other civil engineering work		1		2		4	1		1					2		1			2			14	other civil engineering work
010901	cement products				2	1		1	1	1		1		1		1		2	1				12	cement products
030301	electricity/telecommunication work		2		2	1	1	1	1		1		1	1				1					12	electricity/telecommunication work
011709	other manufacturing		1					1			1		1		1		1	2		1			9	other manufacturing
080202	auto mobile retail			1		1		1	2		1		1						1		1		9	auto mobile retail
011002	casting products		1	1	1		1		1		1					1					1		8	casting products
011409	other electrical equipment					1	1				1	3				1		1					8	other electrical equipment
	industrial waste management service						1						2		1		1	1			2		8	industrial waste management service
011305	other precision machine products		1	1			1	2							1					1			7	other precision machine products
070101	livestock			1					1	1			2					1			1		7	livestock
080109	other wholesale					1				2				1			2		1				7	other wholesale
011204	metal plating products		1			4																	5	metal plating products
011503	railway vehicle products		1		1									2				1					5	railway vehicle products
170101	dispatch service		1						1				1				1		1				5	dispatch service
010805	plastics products				1											1		2					4	plastics products
	products											1				3							4	other nonferrous metal products
011202	screw products					1		1			1					1							4	screw products
030202	wooden house construction work		1										1			1			1				4	wooden house construction work
010109	other foods						1		1		1												3	other foods
010909	other sand and stone products			1							1				1								3	other sand and stone products
030109	land consolidation civil						1			1								1					3	land consolidation civil

000000     balactory     0		engineering work																				engineering work
01040         9yood         0        0        0         0 </td <td>050101</td> <td>land cargo handling service</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td> 3</td> <td>land cargo handling service</td>	050101	land cargo handling service											1					2			 3	land cargo handling service
01090       under andore       under																i		1	1		2	
101999       blar: b	010402	plywood														2					2	plywood
1110       moderous metals assing <td< td=""><td>010502</td><td>metal furniture</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td>1</td><td></td><td>i</td><td></td><td></td><td></td><td></td><td> 2</td><td>metal furniture</td></td<>	010502	metal furniture								1				1		i					 2	metal furniture
11100       implaces       im	010899	other chemical products				i —				1						i	1		i		2	other chemical products
00010     operature from work     0     <	011102				1										1						2	
000000000000000000000000000000000000	030101	hydroelectric plant construction work																	2		2	
00000     wak     0 <t< td=""><td>030110</td><td>water supply/sewage construction work</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>2</td><td></td></t<>	030110	water supply/sewage construction work						1											1		2	
44301       polf course       1	030111	port/seaside construction work					1	1													2	
15013       oher waste disposal service       0      <	040202	bus service									1							1			2	bus service
15009       gocess service	140301	golf course		1			1														2	golf course
process or vice         i	150103	other waste disposal service															1	1			2	other waste disposal service
010103 agricultural food products I </td <td>150109</td> <td>other cleaning and livestock process service</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td>2</td> <td></td>	150109	other cleaning and livestock process service											1						1		2	
01010     akohoki drinks     1<	010102	fishery products										1									1	fishery products
010204 dyeing 0	010103	agricultural food products		1																	1	agricultural food products
010401 Imbering 0 <td< td=""><td>010105</td><td>alcoholic drinks</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>alcoholic drinks</td></td<>	010105	alcoholic drinks			1																1	alcoholic drinks
010500       014er furniture       I	010204	dyeing			1																1	dyeing
01070 printing service 0 </td <td>010401</td> <td>lumbering</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>lumbering</td>	010401	lumbering										1									1	lumbering
01080 chemical fertilizer products I<	010509	other furniture						1													1	other furniture
01000       glas products       I	010701	printing service					1														1	printing service
01003 pottery products I </td <td>010809</td> <td>chemical fertilizer products</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>chemical fertilizer products</td>	010809	chemical fertilizer products													1						1	chemical fertilizer products
011302       measuring instruments       I	010902	glass products																	1		1	glass products
011303       optical instruments       I </td <td>010903</td> <td>pottery products</td> <td></td> <td>1</td> <td></td> <td>1</td> <td>pottery products</td>	010903	pottery products		1																	1	pottery products
electronics equipment and ol 1403 al	011302	measuring instruments								1											1	measuring instruments
011403 telecommunications apparatus I I I I telecommunications apparatus   011703 cleaning I I I I I telecommunications apparatus   03102 tunnel construction work I I I I I I telecommunications apparatus   03104 tailway construction work I I I I I I I telecommunications apparatus   03104 tailway construction work I I I I I I I telecommunications apparatus   03105 bidge construction work I I I I I I I telecommunications apparatus   03106 rade construction work I I I I I I I telecommunications apparatus   03106 rade construction work I I I I I I I I telecommunications apparatus   03106 rade construction work I	011303	optical instruments							1												1	optical instruments
030102tunnel construction workIIIIIIIIIIIIIInnel construction work030104railway construction workIIIIIIIInnel construction work030105bridge construction workIIIIIInnel construction workInnel construction work030106road construction workIIIIInnel construction workInnel construction work030107river civil engineering workIIInnel construction workInnel construction workInnel construction work040102water transportation serviceIIInnel construction workInnel construction workInnel construction work040101water transportation serviceInnel constructionInnel construction workInnel construction workInnel construction work040102water transportation serviceInnel constructionInnel construction workInnel construction workInnel construction work040102water transportation serviceInnel constructionInnel construction workInnel construction workInnel construction work040102water transportation serviceInnel constructionInnel construction workInnel construction work040102water transportation serviceInnel constructionInnel constructionInnel construction040103water transportation serviceInnel constructionInnel constructionInnel construct	011403	telecommunications																		1	1	telecommunications
030104       railway construction work       Image: Construction work	011703	cleaning										1									1	cleaning
030105bridge construction workIII<	030102	tunnel construction work			1																1	tunnel construction work
030106       road construction work       I	030104	railway construction work																1			1	railway construction work
030107       river civil engineering work       Image: Civil engineering work       Image: Civil engineering work         040102       water transportation service       Image: Civil engineering work       Image: Civil engineering work         040102       water transportation service       Image: Civil engineering work       Image: Civil engineering work         040102       water transportation service       Image: Civil engineering work       Image: Civil engineering work         040102       water transportation service       Image: Civil engineering work       Image: Civil engineering work         040201       taxi service       Image: Civil engineering work       Image: Civil engineering work         060101       agriculture       Image: Civil engineering work       Image: Civil engineering work	030105	bridge construction work															1				1	bridge construction work
040102       water transportation service       Image: Constraint of the service       Image: Constraint of the service       Image: Constraint of the service         040201       taxi service       Image: Constraint of the service       Image: Constraint of the service       Image: Constraint of the service         060101       agriculture       Image: Constraint of the service       Image: Constraint of the service       Image: Constraint of the service         060101       agriculture       Image: Constraint of the service       Image: Constraint of the service       Image: Constraint of the service	030106	road construction work			1																1	road construction work
040201 taxi service         Image: Constraint of the	030107	river civil engineering work											1								1	river civil engineering work
060101 agriculture	040102	water transportation service											1								1	water transportation service
	040201	taxi service							1												1	taxi service
070209 other fishery	060101	agriculture															1				1	agriculture
	070209	other fishery									1										1	other fishery

080204	fuel retail								1						1	fuel retail
130101	hospital										1	1			1	hospital
140309	other amusement service		1												1	other amusement service
150101	building maintenance service						1								1	building maintenance service
010101	meat/dairy products											ĺ				meat/dairy products
010104	bread/cake products															bread/cake products
010106	soft drinks															soft drinks
010201	silk-reeling															silk-reeling
010202	cotton-spinning															cotton-spinning
010203	weaving															weaving
010301	over/under wear															over/under wear
010309	other fiber products															other fiber products
010409	other lumber and wood products															other lumber and wood products
010501	wood furniture															wood furniture
010503	fittings															fittings
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
L	painting products															painting products
010904	fire resisting products															fire resisting products
010905	other ceramic products															other ceramic products
011101	nonferrous metals/rolling products															nonferrous metals/rolling products
011201	western tableware/cutting tool products															western tableware/cutting tool products
011304	watch products															watch products
011601	electric utility service															electric utility service
011602	city gas service															city gas service
	city water service															city water service
011609	other electric/gas/water service															other electric/gas/water service
	tobacco products							 	 					 		tobacco products

020101	general coal mining															general coal mining
020109	other coal mining															other coal mining
020202	gravel digging															gravel digging
	other quarrying															other quarrying
	metal mining		i –											_		metal mining
	petroleum mining		 i –													petroleum mining
020309	other mining															other mining
030103	subway construction work													_		subway construction work
030108	sand collapse prevention civil engineering work															sand collapse prevention civil engineering work
040101	railroad service															railroad service
	airline service															airline service
	other passenger transport service															other passenger transport service
	specific truck transportation service															specific truck transportation service
040303	cargo/ light automobile transportation service															cargo/ light automobile transportation service
040309	other land cargo transportation service															other land cargo 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
060209	other forestry															other forestry
080101	all kinds of wholesale															all kinds of wholesale
080102	furniture/fittings wholesale															furniture/fittings wholesale
080201	all kinds of retail															all kinds of retail
080203	furniture/fittings retail															furniture/fittings retail
080205	newspaper retail															newspaper retail
080301	haircut															haircut
	beauty salon															beauty salon
080401	warehousing															warehousing
	banking/trust business															banking/trust business
	stock/commodity trade business															stock/commodity trade business
090103	insurance business															insurance business
	other financial business															other financial business
	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
120102	software service																							software service
120109	other education/research service																							other education/research service
130102	general clinic																							general clinic
130109	other medical treatment service																							other medical treatment service
130201	social welfare facility																							social welfare facility
130301	bathhouse																							bathhouse
130309	other health and hygiene service																							other health and hygiene service
140101	hotel																							hotel
140201	general restaurant																							general restaurant
140209	other restaurants																							other restaurants
140302	park and amusement park																							park and amusement park
150104	cremation service																							cremation service
150105	livestock process service																							livestock process service
160101	public office																							public office
170201	security service																							security service
170202	information processing service																							information processing service
	total		107	87	102	97	120	102	96	65	69	64	84	79	69	87	63	73	64	69	66	58	1,621	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