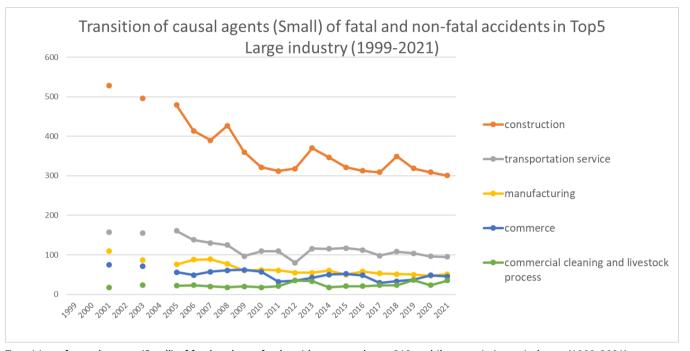
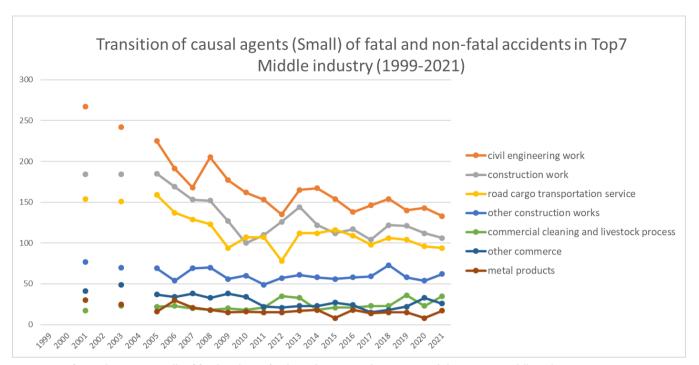
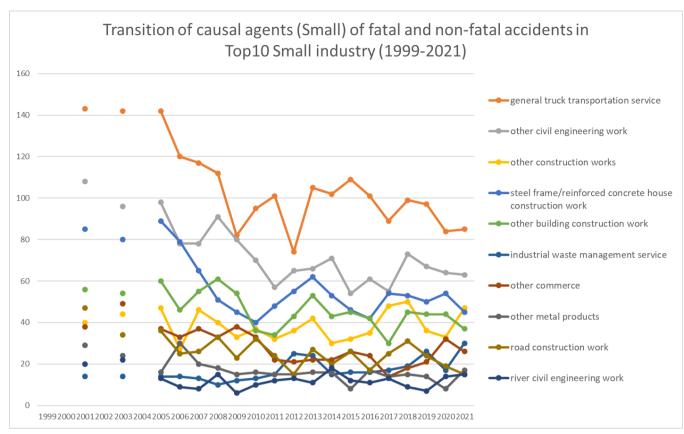
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 212 mobile crane (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 212 mobile crane in Large industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 212 mobile crane in Middle Industry (1999-2021)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 212 mobile crane in Small Industry (1999-2021)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 212 mobile crane 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			528		496		479	414	390	427	360	322	312	318	370	347	322	313	309	349	319	309	301	6,985	construction
04	transportation service			157		155		161	138	130	125	97	109	109	80	116	115	117	112	98	108	104	96	95	2,222	transportation service
01	manufacturing			110		87		76	88	89	77	60	62	61	55	55	60	50	58	53	51	50	47	51	1,240	manufacturing
08	commerce			75		71		56	49	57	61	62	57	32	35	42	50	52	48	29	33	37	48	45	939	commerce
15	commercial cleaning and livestock process			17		23		22	23	20	18	20	18	21	35	33	18	21	21	23	23	36	23	35	450	commercial cleaning and
17	others			27		30		30	13	10	18	18	19	21	12	20	11	18	16	20	19	16	21	11	350	others
06	agriculture			16		16		21	19	14	17	9	18	9	16	15	11	10	13	13	12	10	10	10	259	agriculture

05	cargo handling service		31	24	18	12	16	17	10	8	12	9	5	6	12	6	15	4	9	6	10	230	cargo handling service
07	livestock/fishery		4	5	5	5	3	4	7	4	5	4	3	3	8	7	2	2	5	6	3	85	livestock/fishery
12	education/research service								2								1				2	5	education/research service
02	mining		1		1	2	6	1	1	1	4	1		6	4	2			3	2	1	36	mining
14	hotel/restaurant/amusement		1	2		2	1	2	2	1	1			2		1	1	1		2	1	20	hotel/restaurant/amusement
	service		'				<u> </u>			<u> </u>	ľ					<u> </u>		<u> </u>			Ľ		service
13	health and hygiene service				1						1										1	3	health and hygiene service
09	financial		2	,									1		1							6	financial
09	business/advertisement		2																			6	business/advertisement
11	telecommunication service					1		1										1				3	telecommunication service
16	public office			1										1								2	public office
10	movie/play service											1										1	movie/play service
	total		969	912	870	766	736	768	648	619	588	566	660	630	615	597	564	603	589	570	566	12,836	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 212 mobile crane 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			267		242		225	191	168	205	177	162	153	135	165	167	154	138	146	154	140	143	133	3,265	civil engineering work
0302	construction work			184		184		185	169	153	152	127	100	110	126	144	122	112	117	104	122	121	112	106	2,550	construction work
0403	road cargo transportation service			154		151		159	137	129	123	94	107	107	78	112	112	116	109	98	106	104	96	94	2,186	road cargo transportation service
0303	other construction works			77		70		69	54	69	70	56	60	49	57	61	58	56	58	59	73	58	54	62	1,170	other construction works
1501	commercial cleaning and livestock process			17		23		22	23	20	18	20	18	21	35	33	18	21	21	23	23	36	23	35	450	commercial cleaning and livestock process
0804	other commerce			41		49		37	34	38	33	38	34	22	21	23	23	27	24	15	18	22	33	26	558	other commerce
0112	metal products			30		25		16	30	21	18	15	16	15	15	17	18	8	18	14	15	15	8	17	331	metal products

0801 wholesale	1	11	8	7	8	5	14	11	9	2	7	7	13	14	10	9	7	8	10	13	173	wholesale
0117 other manufacturing	2	24	24	21	21	24	22	13	14	8	15	12	14	13	13	7	8	12	10	12	287	other manufacturing
1702 others		26	30	29	13	10	18	18	19	21	12	20	11	18	16	20	19	16	21	11	348	others
0113 machine products	و	9	11	6	8	8	2	5	3	8	3	5	9	6	6	4	7	4	1	8	113	machine products
0501 land cargo handling service	1	14	7	7	6	6	8	7	4	2	6	2	3	3	2	5	1	2	1	7	93	land cargo handling service
0802 retail		23	14	12	7	14	14	13	14	8	7	12	14	11	14	5	8	7	5	6	208	retail
0109 sand and stone products	2	28	10	17	12	19	20	9	14	15	10	12	4	13	9	11	12	9	11	5	240	sand and stone products
0602 forestry	1	15	12	16	13	9	10	8	14	5	7	9	8	5	4	11	2	4	4	5	161	forestry
0601 agriculture		1	4	5	6	5	7	1	4	4	9	6	3	5	9	2	10	6	6	5	98	agriculture
0502 harbor transportation service	1	17	17	11	6	10	9	3	4	10	3	3	3	9	4	10	3	7	5	3	137	harbor transportation service
0702 fishery		4	5	5	5	3	4	7	3	4	4	3	3	8	6	2	2	4	6	3	81	fishery
0110 steel making	e	6	3	2		3	4	3	1	6	1	2	1	2	1	4	3	2	4	3	51	steel making
0115 transport equipment products	6	6	5	5	4	7	2	5	7	4	3	5	7	4	4	2	1	4	6	2	83	transport equipment products
0104 wood products		4	6	5	6	3	4	7	4	1	3	1	6	3	3	5	3	2	4	2	72	wood products
1201 education/research service								2								1				2	5	education/research service
0202 quarrying	1	1			2	5	1	1	1	4	1		6	3	2			3	2	1	33	quarrying
0108 chemical products				2	1		2	2		1			1		2					1	12	chemical products
0404 other transportation service			2	1		1		1		2	1	1					1			1	11	other transportation service
0106 pulp/paper processing products											2									1	3	pulp/paper processir products
1401 hotel							1												1	1	3	hotel

1302	social welfare facility																				1	1	social welfare facility
0101	food products		2	2	1	3			1			1			1	1	3	2				17	food products
1403	other amusement service		1	2		1	1	1	2	1	1			2		1	1	1		1		16	other amusement service
0114	electrical equipment products		1			1	3	1		2	1		1				2		1			13	electrical equipment products
0402	road passenger transport service		1	1	1				1	2		1	2	2	1	1						13	road passenger transport service
0401	railroad/water transportation/airline service		2	1		1		2	1				1	1		2		1				12	railroad/water transportation/airline service
0116	electric/gas/water service						1			1	1	1							1	3		8	electric/gas/water service
0902	advertisement and mediator		2	2									1		1							6	advertisement and mediator
0701	livestock									1	1					1			1			4	livestock
0102	textile products							1			1					1						3	textile products
0111	nonferrous metal making				1	1						1										3	nonferrous metal making
1101	telecommunication service					1		1										1				3	telecommunication service
0103	fiber products			1		1																2	fiber products
0203	other mining						1								1							2	other mining
1601	public office			1										1								2	public office
1701	dispatch service		1		1																	2	dispatch service
0105	furniture							1														1	furniture
0107	printing/bookbinding																1					1	printing/bookbinding
0201	coal mining				1																	1	coal mining

1001	movie/play service											1										1	movie/play service
1301	medical treatment service										1											1	medical treatment service
1303	other health and hygiene service				1																	1	other health and hygiene service
1402	restaurant					1																1	restaurant
0803	haircut/beauty salon																						haircut/beauty salon
0901	financial business																						financial business
	total	96	9	912	870	766	736	768	648	619	588	566	660	630	615	597	564	603	589	570	566	12,836	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 212 mobile crane 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
040301	general truck transportation service			143		142		142	120	117	112	82	95	101	74	105	102	109	101	89	99	97	84	85	1,999	general truck transportation service
030199	other civil engineering work			108		96		98	78	78	91	80	70	57	65	66	71	54	61	55	73	67	64	63	1,395	other civil engineering work
030309	other construction works			40		44		47	27	46	40	33	37	32	36	42	30	32	35	48	50	36	33	47	735	other construction works
030201	steel frame/reinforced concrete house construction work			85		80		89	79	65	51	45	40	48	55	62	53	46	42	54	53	50	54	45		steel frame/reinforced concrete house construction work
030209	other building construction work			56		54		60	46	55	61	54	36	34	43	53	43	45	42	30	45	44	44	37	882	other building construction
150102	industrial waste management service			14		14		14	14	13	10	12	13	15	25	24	15	16	16	17	19	26	17	30	324	industrial waste management service
080409	other commerce			38		49		37	33	37	33	38	33	22	21	22	22	26	24	14	18	21	32	26	546	other commerce
011209	other metal products			29		24		16	30	20	18	15	16	15	15	16	16	8	17	14	15	14	8	17	323	other metal products
030106	road construction work			47		34		36	25	26	33	23	32	24	15	27	20	26	17	25	31	24	19	15	499	road construction work

030107	river civil engineering work	20	2.	2	13	9	8	15	6	10	12	13	11	18	12	11	13	9	7	14	15	238	river civil engineering work
030202	wooden house construction work	37	4	0	26	35	30	34	23	17	20	23	24	21	15	26	19	18	23	9	14	454	wooden house construction work
080109	other wholesale	10	7		7	8	5	14	9	9	2	6	7	13	12	10	8	7	8	10	13	165	other wholesale
030110	water supply/sewage construction work	28	2	8	26	22	15	15	22	19	19	12	9	13	22	9	16	12	12	10	11	320	water supply/sewage construction work
170209	others	23	2	б	23	9	7	13	15	17	19	11	13	9	13	13	17	15	14	16	10	283	others
030301	electricity/telecommunication work	15	1	3	10	14	14	19	16	13	14	11	16	12	15	14	5	16	9	16	10	252	electricity/telecommunication work
030109	land consolidation civil engineering work	13	11	9	14	13	14	16	11	5	9	7	14	10	6	12	16	10	9	11	10	219	land consolidation civil engineering work
030203	building facility construction work	6	1	0	10	9	3	6	5	7	8	5	5	5	6	7	1	6	4	5	10	118	building facility construction work
011301	machine products	8	1	1	6	8	7	2	5	3	8	2	4	8	6	6	4	6	3	1	8	106	machine products
050101	land cargo handling service	14	7		7	6	6	8	7	4	2	6	2	3	3	2	5	1	2	1	7	93	land cargo handling service
011701	auto mobile servicing	11	7		9	7	11	8	6	10	4	5	8	6	6	7	3	3	5	5	6	127	auto mobile servicing
011702	machine repair	9	1	1	9	9	6	6	3	2	3	5	3	5	4	3	2	3	5	4	6	98	machine repair
030111	port/seaside construction work	23	2	0	11	13	11	7	8	8	7	10	16	13	16	10	9	3	4	7	5	201	port/seaside construction work
030302	machinery/apparatus setting work	22	1:	3	12	13	9	11	7	10	3	10	3	16	9	9	6	7	13	5	5	183	machinery/apparatus setting work
060101	agriculture	1	4		5	6	5	7	1	4	4	9	6	3	5	9	2	10	6	6	5	98	agriculture
040309	other land cargo transportation service	6	6		8	9	6	5	6	5	2	1	4	5	4	4	2	3	3	4	5	88	other land cargo transportation service
030105	bridge construction work	13	8		11	16	12	10	14	12	14	7	10	10	7	7	7	9	7	8	4	186	bridge construction work
080209	other retails	20	1.	3	9	6	7	13	11	13	5	4	11	13	11	13	4	5	5	5	4	172	other retails
030104	railway construction work	3	3		5	2	1	6	2	3	3	2	6	6	2	2	2	1	3	4	4	60	railway construction work
	other sand and stone																						other sand and stone

010909	products		16	6	11	5	7	10	6	9	11	6	9	3	7	4	6	5	4	4	3	132	products
060201	lumbering		11	7	7	10	8	7	3	9	4	5	7	3	3	2	8	2	3	2	3	104	lumbering
040302	specific truck transportation service		5	2	7	5	5	5	6	5	3	2	2	5	2	4	6	3	4	7	3	81	specific truck transportation service
030108	sand collapse prevention civil engineering work		2	10	6	6		6	10	2	4	2	3	2	2	8	2	2	4	1	3	75	sand collapse prevention civil engineering work
150103	other waste disposal service			5	4	3	2	4	5	4	3	6	8	3	2	4	3	1	2	2	3	64	other waste disposal service
010901	cement products		12	4	6	6	12	10	3	4	4	4	2	1	6	5	5	7	5	7	2	105	cement products
050202	port cargo handling service		12	12	10	4	8	8	3	3	8	2	2	2	8	4	6	2	5	4	2	105	port cargo handling service
070201	fishery		3	3	5	4	3	4	7	2	3	4	2	3	5	5	2	2	3	4	2	66	fishery
060209	other forestry		4	5	9	3	1	3	5	5	1	2	2	5	2	2	3		1	2	2	57	other forestry
150109	other cleaning and livestock process service		3	2	3	6	5	4	2	1	1	3			2	1	3	2	5	3	2	48	other cleaning and livestock process service
030102	tunnel construction work		7	2	2	6	2	4		1	2	2	3	1	5	1	1	2	2	2	2	47	tunnel construction work
010401	lumbering		2	4	4	6	2		3	4	1	1		2	1	2	4	1		2	2	41	lumbering
011001	steel/iron/rolling products		2	1	1		1	1	2	1	1		1				1	1			2	15	steel/iron/rolling products
170201	security service		3	4	6	4	3	5	3	2	2	1	7	2	5	3	3	4	2	5	1	65	security service
011009	other steel products		4	2	1		2	3	1		5	1	1	1	2	1	3	2	1	4	1	35	other steel products
050201	general harbor transportation service		5	5	1	2	2	1		1	1	1	1	1	1		4	1	2	1	1	31	general harbor transportation service
011509	other transport equipment products		2	1	3	2			1	2		1	2	1	2		1		1	1	1	21	other transport equipment products
040303	cargo/ light automobile transportation service			1	2	3	1	1		2	1	1	1		1		1	1		1	1	18	cargo/ light automobile transportation service
080202	auto mobile retail		1		1		4	1	1	1	2	1	1	1		1	1				1	17	auto mobile retail
030101	hydroelectric plant construction work		1		1	1		1	1		2			3	2			1		2	1	16	hydroelectric plant construction work

070209	other fishery		1	2		1				1	1		1		3	1			1	2	1	15	other fishery
011502	auto mobile products				1		1	1	1				1	3	1	1				1	1	12	auto mobile products
040409	other transportation service			2	1		1		1		2	1	1					1			1	11	other transportation service
080204	fuel retail		1		1		1				1	2						1	2		1	10	fuel retail
120101	auto mobile practical training								2								1				1	4	auto mobile practical training
010805	plastics products								1		1										1	3	plastics products
020209	other quarrying						1							1							1	3	other quarrying
140101	hotel							1												1	1	3	hotel
010609												1									1	2	other pulp/paper processing
	products																						products
120109	other education/research service																				1	1	other education/research service
130201	social welfare facility																				1	1	social welfare facility
011709	other manufacturing		4	6	3	5	7	8	4	2	1	3	1	3	3	3	2	2	2	1		60	other manufacturing
011501	ship building		4	4	1	2	6	1	3	5	4	2	2	3	1	3	1	1	3	4		50	ship building
010409	other lumber and wood		2	2	1		1	3	4			2	1	4	2	1		2	2	2		29	other lumber and wood
020201	quarrying		1				1	1		1	1	1		4	2	2			2			16	quarrying
020202	gravel digging					2	3		1		3			1	1				1	2		14	gravel digging
150101	building maintenance service			2	1				1		2	1			1			1	3	1		13	building maintenance service
080401	warehousing		3			1	1			1			1	1	1		1		1	1		12	warehousing
140301	golf course			2			1	1	1	1	1			2		1						10	golf course
030103	subway construction work		2		2		1	1										1	1	1		9	subway construction work
010109	other foods		1			1						1				1	2	1				7	other foods
040102	water transportation service		2			1		2					1			1						7	water transportation service
040202	bus service		1	1	1					2				1								6	bus service
080101	all kinds of wholesale		1	1					1						2		1					6	all kinds of wholesale

090209	other advertisement and mediator		2	2									1		1						6	other advertisement and mediator
140309	other amusement service		1			1			1								1	1		1	6	other amusement service
011305	other precision machine products		1				1					1	1	1							5	other precision machine products
011403	electronics equipment and telecommunications apparatus						1			2							2				5	electronics equipment and telecommunications apparatus
011601	electric utility service						1				1	1								2	5	electric utility service
040101	railroad service			1					1					1		1		1			5	railroad service
040201	taxi service								1			1	1		1	1					5	taxi service
080201	all kinds of retail			1	1		2		1												5	all kinds of retail
010101	meat/dairy products			1	1	2															4	meat/dairy products
010801	non organic or organic chemical products							2								2					4	non organic or organic
011204	metal plating products		1										1	2							4	metal plating products
011409	other electrical equipment		1				2						1								4	other electrical equipment
070101	livestock									1	1					1			1		4	livestock
010103	agricultural food products		1	1					1												3	agricultural food products
010209	other textile products							1			1					1					3	other textile products
011109	other nonferrous metal products				1	1						1									3	other nonferrous metal products
011401	heavy electrical equipment					1					1								1		3	heavy electrical equipment
011603	city water service									1									1	1	3	city water service
080203	furniture/fittings retail					1												2			3	furniture/fittings retail
110101	telecommunication service					1		1										1			3	telecommunication service
010103	fishery products																				2	fishery products

010309	other fiber products			1		1														2	other fiber products
010402	plywood							1								1				2	plywood
010899	other chemical products				1				1											2	other chemical products
010902	glass products					1				1										2	glass products
011201	western tableware/cutting tool products			1														1		2	western tableware/cutting tool products
011203	metal press products						1								1					2	metal press products
011302	measuring instruments																1	1		2	measuring instruments
011703	cleaning										2									2	cleaning
020309	other mining						1							1						2	other mining
040209	other passenger transport service											1	1							2	other passenger transport
080102	furniture/fittings wholesale								1		1									2	furniture/fittings wholesale
160101	public office			1									1							2	public office
170101	dispatch service		1		1															2	dispatch service
010105	alcoholic drinks													1						1	alcoholic drinks
010501	wood furniture							1												1	wood furniture
010601	pulp/paper										1									1	pulp/paper
010701	printing service															1				1	printing service
010804	petroleum/coal products				1															1	petroleum/coal products
010806	rubber products					1														1	rubber products
010809	chemical fertilizer products												1							1	chemical fertilizer products
010905	other ceramic products											1								1	other ceramic products
011002	casting products																	1		1	casting products
011402	electrical appliance							1												1	electrical appliance
020101	general coal mining				1															1	general coal mining
	other harbor transportation																				other harbor transportation

050209	service								1							1	service
080205	newspaper retail		1													1	newspaper retail
100109	other movie/play service									1						1	other movie/play service
130101	hospital								1							1	hospital
130301	bathhouse				1											1	bathhouse
140201	general restaurant					1										1	general restaurant
150105	livestock process service										1					1	livestock process service
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
010204	dyeing																dyeing
010301	over/under wear																over/under wear
010502	metal furniture																metal furniture
010503	fittings																fittings
010509	other furniture																other furniture
010602	paper processing products																paper processing products
010702	bookbinding																bookbinding
010709	other printing and																other printing and
	bookbinding																bookbinding
010802	chemical fiber																chemical fiber
010803	pharmaceuticals																pharmaceuticals
010807	leather products																leather products
010808	painting products																painting products
010903	pottery products																pottery products

010904	fire resisting products										fire resisting products
011101	nonferrous metals/rolling products										nonferrous metals/rolling products
011102	nonferrous metals casting products										nonferrous metals casting products
011202	screw products										screw products
011303	optical instruments										optical instruments
011304	watch products										watch products
011503	railway vehicle products										railway vehicle products
011602	city gas service										city gas service
011609	other electric/gas/water service										other electric/gas/water service
011704	tobacco products										tobacco products
020109	other coal mining										other coal mining
020301	metal mining										metal mining
020302	petroleum mining										petroleum mining
040103	airline service										airline service
080301	haircut										haircut
080302	beauty salon										beauty salon
090101	banking/trust business										banking/trust business
090102	stock/commodity trade business										stock/commodity trade business
090103	insurance business										insurance business
090109	other financial business										other financial business
090201	traveling service										traveling service
100101	movie production and delivery service										movie production and delivery service

100102	movie theatre																						movie theatre
120102	software service																						software service
130102	general clinic																						general clinic
130109	other medical treatment service																						other medical treatment service
130309	other health and hygiene service																						other health and hygiene service
140209	other restaurants																						other restaurants
140302	park and amusement park																						park and amusement park
150104	cremation service																						cremation service
170202	information processing service																						information processing service
	total		969	912	870	766	736	768	648	619	588	566	660	630	615	597	564	603	589	570	566	12,836	total

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

https://www.jisha.or.jp/english/statistics/202212 03.html