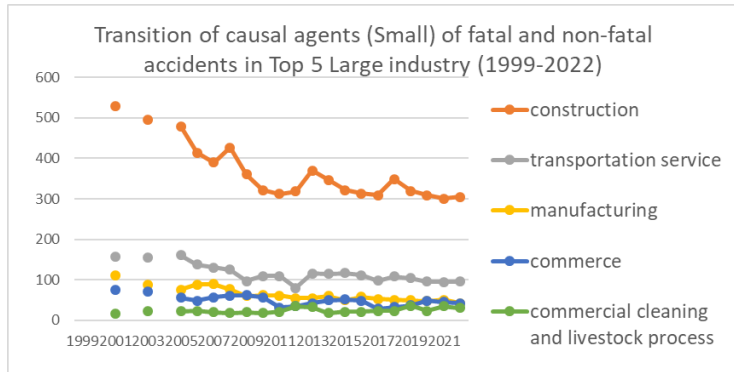
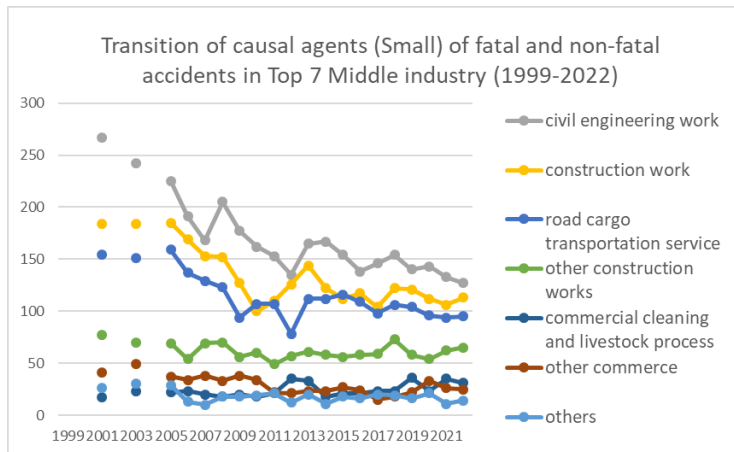


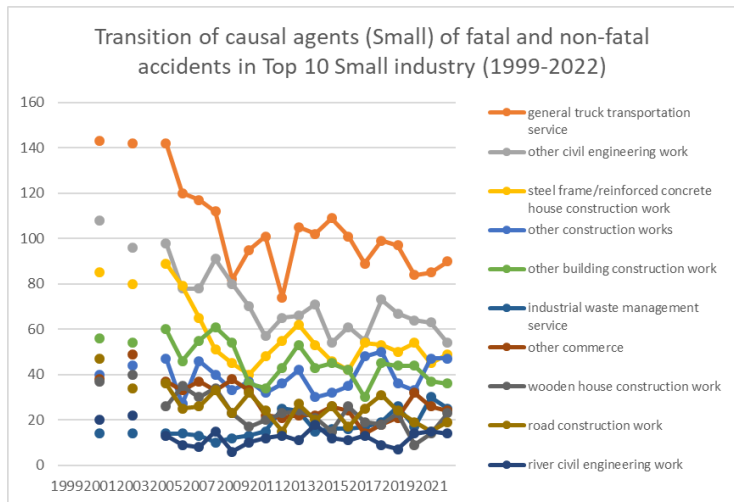
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 212 mobile crane (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 212 mobile crane in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 212 mobile crane in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 212 mobile crane in Small Industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 212 mobile crane in Large industry (1999-2022)

code	Large industry	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total	Large industry	
03	construction			528		496		479	414	390	427	360	322	312	318	370	347	322	313	309	349	319	309	301	305	7,290	construction	
04	transportation service			157		155		161	138	130	125	97	109	109	80	116	115	117	112	98	108	104	96	95	96	2,318	transportation service	
01	manufacturing			110		87		76	88	89	77	60	62	61	55	55	60	50	58	53	51	50	47	51	42	1,282	manufacturing	
08	commerce			75		71		56	49	57	61	62	57	32	35	42	50	52	48	29	33	37	48	45	42	981	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	31	481	commercial cleaning and livestock process	
17	others			27		30		30	13	10	18	18	19	21	12	20	11	18	16	20	19	16	21	11	14	364	others	
06	agriculture			16		16		21	19	14	17	9	18	9	16	15	11	10	13	13	12	10	10	10	7	266	agriculture	
05	cargo handling service			31		24		18	12	16	17	10	8	12	9	5	6	12	6	15	4	9	6	10	7	237	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	4	89	livestock/fishery	
02	mining			1				1	2	6	1	1	1	4	1		6	4	2			3	2	1	1	37	mining	
09	financial business/advertisement			2		2										1		1							1	7	financial business/advertisement	
12	education/research service											2								1					2	1	6	education/research service
14	hotel/restaurant/amusement service			1		2			2	1	2	2	1	1			2		1	1	1		2	1		20	hotel/restaurant/amusement service	
11	telecommunication service							1		1											1					3	telecommunication service	
13	health and hygiene service						1						1												1	3	health and hygiene 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	551	13,387	total	

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 212 mobile crane 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
0301	civil engineering work			267		242		225	191	168	205	177	162	153	135	165	167	154	138	146	154	140	143	133	127	3,392	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	113	2,663	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	95	2,281	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	65	1,235	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	31	481	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	25	583	other commerce
1702	others			26		30		29	13	10	18	18	19	21	12	20	11	18	16	20	19	16	21	11	14	362	others
0117	other manufacturing			24		24		21	21	24	22	13	14	8	15	12	14	13	13	7	8	12	10	12	12	299	other manufacturing
0112	metal products			30		25		16	30	21	18	15	16	15	15	17	18	8	18	14	15	15	8	17	11	342	metal products
0801	wholesale			11		8		7	8	5	14	11	9	2	7	7	13	14	10	9	7	8	10	13	10	183	wholesale
0802	retail			23		14		12	7	14	14	13	14	8	7	12	14	11	14	5	8	7	5	6	7	215	retail
0109	sand and stone products			28		10		17	12	19	20	9	14	15	10	12	4	13	9	11	12	9	11	5	5	245	sand and stone

																									products
0502	harbor transportation service		17	17	11	6	10	9	3	4	10	3	3	3	9	4	10	3	7	5	3	5	142	harbor transportation service	
0601	agriculture		1	4	5	6	5	7	1	4	4	9	6	3	5	9	2	10	6	6	5	5	103	agriculture	
0113	machine products		9	11	6	8	8	2	5	3	8	3	5	9	6	6	4	7	4	1	8	4	117	machine products	
0115	transport equipment products		6	5	5	4	7	2	5	7	4	3	5	7	4	4	2	1	4	6	2	4	87	transport equipment products	
0702	fishery		4	5	5	5	3	4	7	3	4	4	3	3	8	6	2	2	4	6	3	4	85	fishery	
0602	forestry		15	12	16	13	9	10	8	14	5	7	9	8	5	4	11	2	4	4	5	2	163	forestry	
0501	land cargo handling service		14	7	7	6	6	8	7	4	2	6	2	3	3	2	5	1	2	1	7	2	95	land cargo handling service	
0104	wood products		4	6	5	6	3	4	7	4	1	3	1	6	3	3	5	3	2	4	2	2	74	wood products	
0110	steel making		6	3	2	3	4	3	1	6	1	2	1	2	1	4	3	2	4	3	2	53	steel making		
0114	electrical equipment products		1			1	3	1		2	1		1				2		1			2	15	electrical equipment products	
0202	quarrying		1			2	5	1	1	1	4	1		6	3	2			3	2	1	1	34	quarrying	
0404	other transportation service			2	1	1	1	1		2	1	1						1			1	1	12	other transportation service	
0902	advertisement and mediator		2	2									1	1								1	7	advertisement and mediator	
1201	education/research service								2								1				2	1	6	education/research service	
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	
0402	road passenger transport service		1	1	1				1	2		1	2	2	1	1							13	road passenger transport service	
0108	chemical products				2	1		2	2		1			1		2					1		12	chemical products	
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	
0701	livestock									1	1						1			1			4	livestock	
0102	textile products							1			1					1							3	textile products	
0106	pulp/paper processing products											2									1		3	pulp/paper processing products	
0111	nonferrous metal making				1	1						1											3	nonferrous metal making	
1101	telecommunication service					1	1											1					3	telecommunication service	
1401	hotel							1											1	1			3	hotel	
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	

030109	land consolidation civil engineering work			13		19		14	13	14	16	11	5	9	7	14	10	6	12	16	10	9	11	10	5	224	land consolidation civil engineering work
030302	machinery/apparatus setting work			22		13		12	13	9	11	7	10	3	10	3	16	9	9	6	7	13	5	5	5	188	machinery/apparatus setting work
030203	building facility construction work			6		10		10	9	3	6	5	7	8	5	5	5	6	7	1	6	4	5	10	5	123	building facility construction work
050202	port cargo handling service			12		12		10	4	8	8	3	3	8	2	2	2	8	4	6	2	5	4	2	5	110	port cargo handling service
011702	machine repair			9		11		9	9	6	6	3	2	3	5	3	5	4	3	2	3	5	4	6	5	103	machine repair
060101	agriculture			1		4		5	6	5	7	1	4	4	9	6	3	5	9	2	10	6	6	5	5	103	agriculture
011301	machine products			8		11		6	8	7	2	5	3	8	2	4	8	6	6	4	6	3	1	8	4	110	machine products
150103	other waste disposal service					5		4	3	2	4	5	4	3	6	8	3	2	4	3	1	2	2	3	4	68	other waste disposal service
030105	bridge construction work			13		8		11	16	12	10	14	12	14	7	10	10	7	7	7	9	7	8	4	3	189	bridge construction work
011501	ship building			4		4		1	2	6	1	3	5	4	2	2	3	1	3	1	1	3	4		3	53	ship building
010909	other sand and stone products			16		6		11	5	7	10	6	9	11	6	9	3	7	4	6	5	4	4	3	2	134	other sand and stone products
010901	cement products			12		4		6	6	12	10	3	4	4	4	2	1	6	5	5	7	5	7	2	2	107	cement 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	2	95	land cargo handling service
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	2	90	other land cargo transportation service
040302	specific truck transportation service			5		2		7	5	5	5	6	5	3	2	2	5	2	4	6	3	4	7	3	2	83	specific truck transportation service
070201	fishery			3		3		5	4	3	4	7	2	3	4	2	3	5	5	2	2	3	4	2	2	68	fishery
170201	security service			3		4		6	4	3	5	3	2	2	1	7	2	5	3	3	4	2	5	1	2	67	security service
030104	railway construction work			3		3		5	2	1	6	2	3	3	2	6	6	2	2	2	1	3	4	4	2	62	railway construction work
150109	other cleaning and livestock process service			3		2		3	6	5	4	2	1	1	3			2	1	3	2	5	3	2	2	50	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	2	49	tunnel construction work
010409	other lumber and wood products			2		2		1		1	3	4			2	1	4	2	1		2	2	2		2	31	other lumber and wood products
030101	hydroelectric plant construction work			1				1	1		1	1		2			3	2			1		2	1	2	18	hydroelectric plant construction work
070209	other fishery			1		2			1				1	1		1		3	1			1	2	1	2	17	other fishery
011409	other electrical equipment			1						2							1								2	6	other electrical equipment
060201	lumbering			11		7		7	10	8	7	3	9	4	5	7	3	3	2	8	2	3	2	3	1	105	lumbering
011709	other manufacturing			4		6		3	5	7	8	4	2	1	3	1	3	3	3	2	2	2	1		1	61	other manufacturing
060209	other forestry			4		5		9	3	1	3	5	5	1	2	2	5	2	2	3		1	2	2	1	58	other forestry
040303	cargo/ light automobile transportation service					1		2	3	1	1		2	1	1	1		1		1	1		1	1	1	19	cargo/ light automobile transportation service
011001	steel/iron/rolling products			2		1		1		1	1	2	1	1		1				1	1			2	1	16	steel/iron/rolling products
020202	gravel digging							2	3			1		3			1	1				1	2		1	15	gravel digging
011502	auto mobile products							1		1	1	1				1	3	1	1				1	1	1	13	auto mobile products
080401	warehousing			3					1	1					1		1	1			1		1	1		13	warehousing
040409	other transportation service					2		1		1		1		2	1	1					1			1	1	12	other transportation service
030103	subway construction work			2				2		1	1										1	1	1		1	10	subway construction work
080101	all kinds of wholesale			1		1						1						2		1					1	7	all kinds of wholesale

090209	other advertisement and mediator			2		2								1		1					1	7	other advertisement and mediator					
120101	auto mobile practical training									2							1				1	1	5	auto mobile practical training				
010902	glass products																					1	3	glass products				
011002	casting products																				1		2	casting products				
010401	lumbering			2		4		4	6	2		3	4	1	1		2	1	2	4	1		2	2	41	lumbering		
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	
080202	auto mobile retail			1				1		4	1	1	1	2	1	1	1		1	1				1		17	auto mobile retail	
020201	quarrying			1						1	1		1	1	1		4	2	2			2				16	quarrying	
150101	building maintenance service					2		1				1		2	1			1			1	3	1			13	building maintenance service	
080204	fuel retail			1				1		1				1	2						1	2		1		10	fuel retail	
140301	golf course					2				1	1	1	1	1			2		1							10	golf course	
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	
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 chemical products	
011204	metal plating products			1											1	2										4	metal plating products	
070101	livestock												1	1									1			4	livestock	
010103	agricultural food products			1		1						1														3	agricultural food products	
010209	other textile products										1			1												3	other textile products	
010805	plastics products											1		1										1		3	plastics 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	
020209	other quarrying										1						1							1		3	other quarrying	
080203	furniture/fittings retail								1																2		3	furniture/fittings retail
110101	telecommunication service								1		1														1		3	telecommunication service

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	551	13,387	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