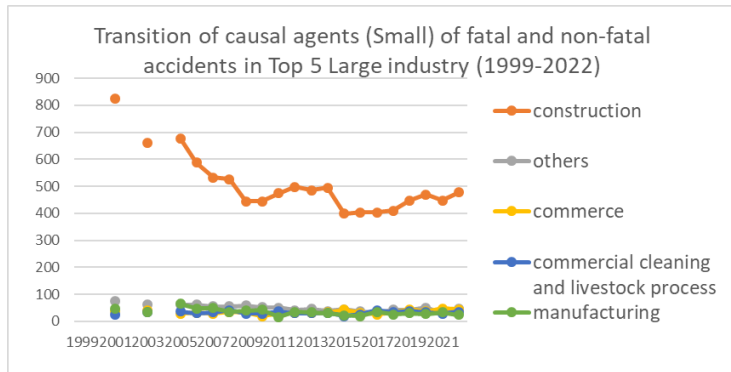
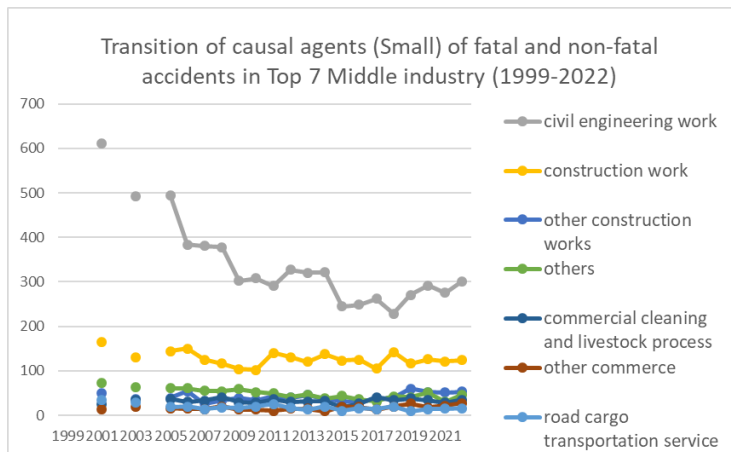


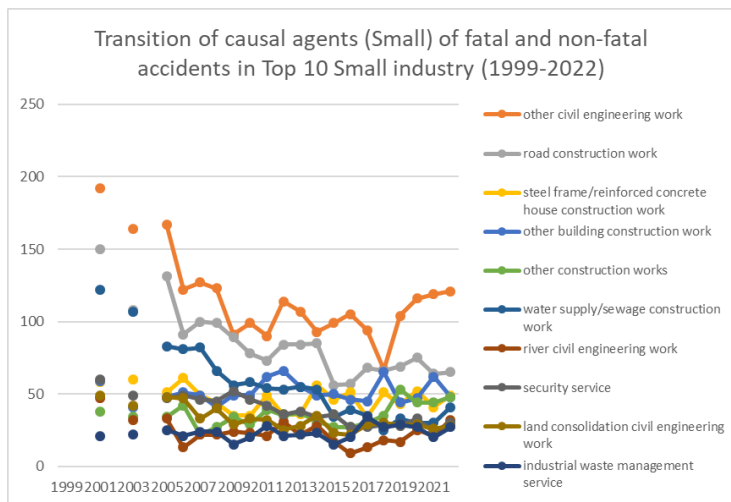
Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 142 excavating machine (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 142 excavating machine in Large industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 142 excavating machine in Middle Industry (1999-2022)



Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 142 excavating machine in Small Industry (1999-2022)

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 142 excavating machine 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			825		661		678	588	532	527	445	444	475	498	485	495	399	403	404	410	447	470	447	478	10,111	construction
17	others			75		64		61	61	55	55	59	52	50	42	46	38	44	37	32	43	42	51	30	46	983	others
08	commerce			36		39		28	32	28	35	34	20	29	30	31	33	43	32	26	32	44	36	48	44	680	commerce
15	commercial cleaning and livestock process			25		34		37	30	33	41	29	28	36	30	31	32	19	26	41	34	38	34	28	35	641	commercial cleaning and livestock process
01	manufacturing			48		34		65	48	49	35	39	43	16	35	34	31	22	20	35	25	31	27	33	24	694	manufacturing
04	transportation service			34		29		20	21	14	18	17	20	25	18	14	23	10	17	15	20	9	14	15	16	369	transportation service
06	agriculture			19		21		20	17	13	14	17	11	18	18	18	12	17	14	10	10	18	15	26	14	322	agriculture
02	mining			36		20		20	15	18	13	15	17	9	15	15	15	14	9	9	11	12	10	12	14	299	mining
07	livestock/fishery			1				4	4	1		1	1	3	2		2	2	1	8	2	4	4	2	6	48	livestock/fishery
14	hotel/restaurant/amusement service			4		5		6	3	5	7	6	6	3	4	3	2	3	5	4	2	2	6	4	5	85	hotel/restaurant/amusement service
05	cargo handling service			5		3		1	4	2	4	1	3	6	4	2	4		2	2	3	4	3	5	2	60	cargo handling service
13	health and hygiene service							1		1				1		1	1				1	1				7	health and hygiene service
09	financial business/advertisement					1											1					1	1			4	financial business/advertisement
11	telecommunication service					1		1			1						1									4	telecommunication service
12	education/research service					1					1					1										3	education/research service
16	public office										1							1					1			3	public office
10	movie/play service									1																1	movie/play service
	total			1,108		913		942	823	752	752	663	645	671	696	681	690	573	567	586	593	653	672	650	684	14,314	total

Transition of causal agents (Small) of fatal and non-fatal accidents as code no. 142 excavating machine 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			611		493		495	384	381	378	302	308	291	327	320	321	245	249	262	228	271	292	275	301	6,734	civil engineering work
0302	construction work			164		131		144	150	125	116	104	102	140	131	120	137	123	125	105	142	116	126	121	124	2,546	construction work
0303	other construction works			50		37		39	54	26	33	39	34	44	40	45	37	31	29	37	40	60	52	51	53	831	other construction works
1702	others			73		64		61	61	55	54	59	52	49	41	46	38	44	36	31	43	41	51	30	46	975	others
1501	commercial cleaning and livestock process			25		34		37	30	33	41	29	28	36	30	31	32	19	26	41	34	38	34	28	35	641	commercial cleaning and livestock process
0804	other commerce			14		19		16	15	14	20	13	13	10	15	15	9	20	19	13	20	26	18	22	27	338	other commerce
0403	road cargo transportation service			34		28		19	20	14	18	17	20	25	17	13	20	10	16	14	20	9	14	15	16	359	road cargo transportation service
0202	quarrying			34		18		20	15	16	13	15	17	9	15	15	15	14	8	8	11	12	10	11	13	289	quarrying
0109	sand and stone products			16		12		16	15	15	6	8	10	3	11	8	5	5	2	9	10	10	6	8	12	187	sand and stone products
0802	retail			17		14		10	12	12	9	17	6	12	11	11	17	16	10	8	7	10	13	19	11	242	retail
0602	forestry			15		19		11	13	10	11	10	9	14	9	13	7	8	12	5	7	10	9	14	8	214	forestry
0601	agriculture			4		2		9	4	3	3	7	2	4	9	5	5	9	2	5	3	8	6	12	6	108	agriculture

0801	wholesale			5		6		2	5	2	6	4	1	7	4	5	7	7	3	5	5	8	5	7	6	100	wholesale
0701	livestock			1				3	4	1		1	1	3	2		2	2	1	7	2	4	4	2	6	46	livestock
0117	other manufacturing			16		6		27	15	13	15	16	10	5	12	10	14	11	10	14	5	7	8	10	5	229	other manufacturing
1403	other amusement service			4		3		5	2	5	6	4	5	2	3	2	1	2	4	4	1	2	4	3	4	66	other amusement service
0112	metal products			6		4		7	4	6	5	2	4		2	6	2	2	3	4	3	3	2	4	3	72	metal products
0502	harbor transportation service			3		2			2	1	3	1	2	4	2	1	4		2	2	2	3	2	4	2	42	harbor transportation service
0113	machine products			4		2		4	6	5	2	3	6	3	4	4	3	2	3	4	3	2	2	1	1	64	machine products
0110	steel making			1		2		4	2	2	3	4	5	1			1	1	1		1		2	1	1	32	steel making
0104	wood products			1		1		1		3			2	1	2	2	1			1	3	3	1	2	1	25	wood products
0115	transport equipment products					1		1	1	2	1	2	1	1	1	1			1			3	2	2	1	21	transport equipment products
1401	hotel					2		1	1		1	1		1	1	1	1	1	1		1		2	1	1	17	hotel
0203	other mining			2		2				1									1	1				1	1	9	other mining
0108	chemical products			1		5			2	1	2		1	1		2	5					1	3	1		25	chemical products
0501	land cargo handling service			2		1		1	2	1	1		1	2	2	1					1	1	1	1		18	land cargo handling service
0111	nonferrous metal making							1		1		2	2	1	2	1		1		1		1				13	nonferrous metal making
0116	electric/gas/water service			2		1		1		1	1	1	1											3		11	electric/gas/water service
1701	dispatch service			2							1			1	1				1	1		1				8	dispatch service
0101	food products			1				1	1											2		1		1		7	food products
0402	road passenger transport service					1		1						1		1			1	1						6	road passenger transport service
0114	electrical equipment products							1	1			1											1			4	electrical equipment products
1101	telecommunication service					1		1			1					1										4	telecommunication service
0106	pulp/paper processing products							1	1				1													3	pulp/paper processing products
0902	advertisement and mediator					1										1							1			3	advertisement and mediator
1201	education/research service					1					1					1										3	education/research service
1302	social welfare facility													1		1	1									3	social welfare facility
1303	other health and hygiene service							1		1												1				3	other health and hygiene service
1601	public office										1								1				1			3	public office
0401	railroad/water transportation/airline service								1								1									2	railroad/water transportation/airline service
0404	other transportation service															1	1									2	other transportation service
0702	fishery							1												1						2	fishery

030108	civil engineering work			22		14		15	15	6	8	3	5	10	6	10	12	5	2	3	7	8	8	4	5	168	civil engineering work
080204	fuel retail			8		3		6	3	6	4	4	3	5	4	5	6	4	4	3	5	6	7	7	5	98	fuel retail
080109	other wholesale			3		6		2	5	2	6	4	1	6	3	5	6	7	3	5	5	8	5	6	5	93	other wholesale
060209	other forestry			3		9		5	4	3	3	1	3	6	5	5	3	4	6	2	3	2	2	4	5	78	other forestry
030301	electricity/telecommunication work			6		3		2	8	1	2	3	3	4	4	4	3	2		3	4	4	7	5	5	73	electricity/telecommunication work
020202	gravel digging			7		8		5	2	4	2	2	2	7	3	3	4	2	2	2	2	4	1	2	4	68	gravel digging
150109	other cleaning and livestock process service					3		3	4	1	9	5		1	3	5	5	2	3	5	2	3	4	2	4	64	other cleaning and livestock process service
060201	lumbering			12		10		6	9	7	8	9	6	8	4	8	4	4	6	3	4	8	7	10	3	136	lumbering
011702	machine repair			12		4		12	7	7	6	10	5	2	6	7	8	7	7	9	2	6	6	5	3	131	machine repair
150103	other waste disposal service			3		9		6	5	7	7	8	8	6	5	4	4	1	3	1	4	6	1	5	3	96	other waste disposal service
010909	other sand and stone products			6		8		4	6	4	3	5	4	2	6	2	2	1		5	5	2	2	3	3	73	other sand and stone products
011209	other metal products			6		4		7	4	6	5	2	4		2	6	2	2	3	4	3	3	2	4	3	72	other metal products
040302	specific truck transportation service			4				3	2	1	1		2	3		2	1			2			3	2	3	29	specific truck transportation service
030105	bridge construction work			6		11		4	5	3	7	3	4	4	7	1	4	2	6	7	5	4	3	4	2	92	bridge construction work
140301	golf course			2		3		5	2	4	4	4	5	2	3	2	1	2	3	1		2	2	2	2	51	golf course
030104	railway construction work			2		2		1	4	1	1		2	1	1	1	3	2	2	4	2	2	3	2	2	38	railway construction work
011709	other manufacturing			1		1		4		2	7	1	1	2	4	2	3	1	1	2		1		2	2	37	other manufacturing
020209	other quarrying			3		1		2	3	3	2	1	2	1		2	1	2	2		1		1	3	2	32	other quarrying
030101	hydroelectric plant construction work			2		2		1			1	3	2	1			2		2	1					2	19	hydroelectric plant construction work
030102	tunnel construction work			12		4		6	5	1	6	2		3	3	5	4	6		2	5	3	1	2	1	71	tunnel construction work
030111	port/seaside construction work			6		6		6	1	5	5	2	2	2	3	7	2	1	4	6	3	2		3	1	67	port/seaside construction work
011301	machine products			4		2		4	6	4	2	3	5	3	3	4	3	2	3	4	3	2	2	1	1	61	machine products
050202	port cargo handling service			3		1			2	1	1		2	1		1	4		2		2	1	1	4	1	27	port cargo handling service
011009	other steel products					1		2	2	1	1	3	3				1	1			1		1	1	1	19	other steel products
140101	hotel					2		1	1		1	1		1	1	1	1	1		1			2	1	1	17	hotel
150101	building maintenance service			1				3		1	1	1		1	1			1		1	1		2	1	1	16	building maintenance service
050201	general harbor transportation service					1					2	1		3	1					2		1	1		1	13	general harbor transportation service
010409	other lumber and wood products			1				1		1			1				1			1	2	2			1	11	other lumber and wood products
020309	other mining			2		2			1										1	1				1	1	9	other mining
030103	subway construction work			1		1				1			2						1				2		1	9	subway construction work
140309	other amusement service			2					1	1											1		2	1	1	9	other amusement service
011501	ship building							1				1		1								1		1	1	6	ship building
140302	park and amusement park								1									1	3					1		6	park and amusement park
080101	all kinds of wholesale			1										1	1		1								1	5	all kinds of wholesale
011701	auto mobile servicing			3		1		11	8	4	2	5	4	1	2	1	3	3	2	3	3		2	3		61	auto mobile servicing
030302	machinery/apparatus setting			6				3	4	3	4	2	2	1	1	4	3	2	2	4	1	3	1	2		48	machinery/apparatus setting

	work																								work			
040309	other land cargo transportation service			3		6		2		1	3	1			1	1	1		1	2	5	1		2		30	other land cargo transportation service	
050101	land cargo handling service			2		1		1	2	1	1		1	2	2	1				1	1	1	1			18	land cargo handling service	
010401	lumbering					1				2			1		2	2					1	1	1	1			12	lumbering
010804	petroleum/coal products					2			1				1				4						3	1			12	petroleum/coal products
011001	steel/iron/rolling products					1		2		1	2	1	2	1					1				1				12	steel/iron/rolling products
010905	other ceramic products			2		1		1	1	1	1										1				3		11	other ceramic products
011101	nonferrous metals/rolling products							1		1		2	2	1	1	1					1						10	nonferrous metals/rolling products
011509	other transport equipment products									1		1		1					1				1	2	1		9	other transport equipment products
080201	all kinds of retail			1		1			1			2		1		1								1			8	all kinds of retail
170101	dispatch service			2							1			1	1					1	1		1				8	dispatch service
010899	other chemical products			1		1			1	1	1			1													6	other chemical products
011502	auto mobile products					1		1	1		1	1											1				6	auto mobile products
011602	city gas service			1		1						1	1												2		6	city gas service
010109	other foods								1												2		1		1		5	other foods
080202	auto mobile retail										1	1					2	1									5	auto mobile retail
011603	city water service			1						1	1													1			4	city water service
110101	telecommunication service					1		1			1						1										4	telecommunication service
010806	rubber products										1					2											3	rubber products
011305	other precision machine products									1			1		1												3	other precision machine products
040201	taxi service					1													1	1							3	taxi service
080203	furniture/fittings retail			1				1															1				3	furniture/fittings retail
090209	other advertisement and mediator					1										1								1			3	other advertisement and mediator
120109	other education/research service					1					1					1											3	other education/research service
130201	social welfare facility												1		1	1											3	social welfare facility
130309	other health and hygiene service							1		1													1				3	other health and hygiene service
160101	public office										1								1				1				3	public office
010402	plywood												1											1			2	plywood
010609	other pulp/paper processing products							1	1																		2	other pulp/paper processing products
010801	non organic or organic chemical products					1																	1				2	non organic or organic chemical products
011109	other nonferrous metal products														1			1									2	other nonferrous metal products
011409	other electrical equipment								1			1															2	other electrical equipment
040202	bus service														1		1										2	bus service
040303	cargo/ light automobile transportation service					1																		1			2	cargo/ light automobile transportation service

130101	hospital																									hospital	
130102	general clinic																									general clinic	
130301	bathhouse																									bathhouse	
140209	other restaurants																									other restaurants	
150104	cremation service																									cremation service	
150105	livestock process service																									livestock process service	
170202	information processing service																									information processing service	
	total			1,108		913		942	823	752	752	663	645	671	696	681	690	573	567	586	593	653	672	650	684	14,314	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