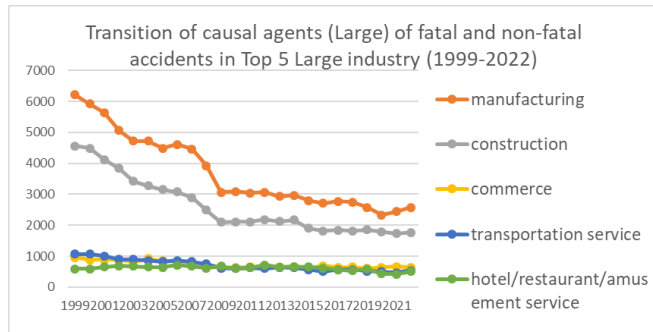
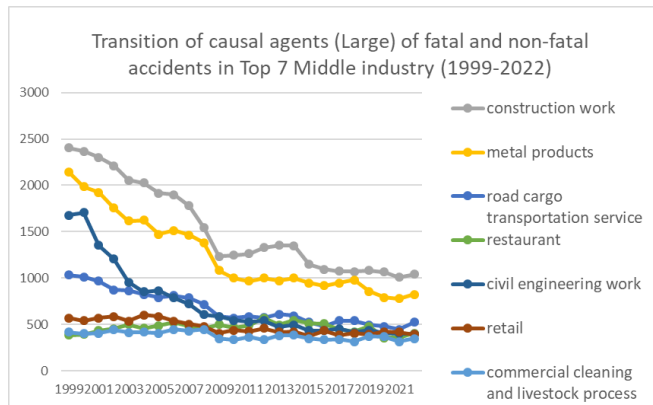


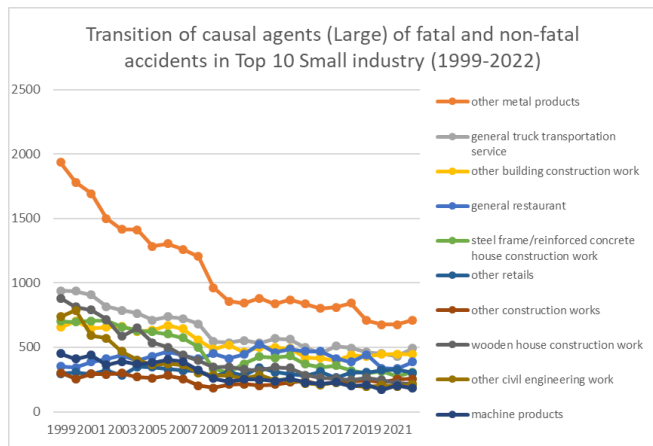
Transition of causal agents (Large) of fatal and non-fatal accidents as code no. 5 substance, material (1999-2022)



Transition of causal agents (Large) of fatal and non-fatal accidents as code no. 5 substance, material in Large industry (1999-2022)



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Transition of causal agents (Large) of fatal and non-fatal accidents as code no. 5 substance, material 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
01	manufacturing	6,211	5,920	5,642	5,063	4,721	4,720	4,490	4,613	4,456	3,923	3,065	3,089	3,044	3,066	2,930	2,971	2,797	2,707	2,773	2,742	2,574	2,335	2,441	2,572	88,865	manufacturing
03	construction	4,556	4,481	4,113	3,836	3,425	3,277	3,146	3,079	2,891	2,490	2,103	2,111	2,107	2,182	2,122	2,167	1,906	1,821	1,846	1,813	1,847	1,794	1,733	1,767	62,613	construction

030302	machinery/apparatus setting work	108	90	98	73	78	86	71	73	81	90	62	76	61	72	58	52	57	47	56	66	52	68	45	37	1,657	machinery/apparatus setting work
011701	auto mobile servicing	118	117	101	103	77	77	80	77	72	54	61	55	47	63	57	51	44	43	57	58	46	45	45	37	1,585	auto mobile servicing
030301	electricity/telecommunication work	63	60	69	55	40	42	36	39	51	45	38	34	42	39	31	44	28	34	32	33	32	29	28	34	978	electricity/telecommunication work
060209	other forestry	70	80	56	72	63	62	59	47	44	29	40	45	52	47	40	27	31	28	25	24	18	21	18	33	1,031	other forestry
010899	other chemical products	52	56	32	39	34	44	33	39	48	28	32	28	34	25	26	36	19	20	28	28	27	37	23	33	801	other chemical products
011009	other steel products	110	118	106	85	81	82	67	70	73	69	44	56	51	48	52	46	37	41	33	37	44	33	43	32	1,458	other steel products
010104	bread/cake products	41	32	41	34	51	39	42	34	44	40	48	35	36	34	34	50	41	42	40	34	37	33	34	32	928	bread/cake products
011403	electronics equipment and telecommunications apparatus	48	51	40	47	43	39	44	31	43	35	25	31	21	23	22	19	24	25	19	23	25	22	23	31	754	electronics equipment and telecommunications apparatus
030110	water supply/sewage construction work	251	229	179	148	116	108	121	88	72	72	63	64	49	62	48	51	46	43	38	37	32	38	27	28	2,010	water supply/sewage construction work
030109	land consolidation civil engineering work	115	112	103	90	67	55	62	66	53	36	38	36	36	29	43	37	27	34	31	28	31	24	24	28	1,205	land consolidation civil engineering work
070101	livestock	29	34	24	24	25	21	41	20	24	21	26	38	28	32	23	28	24	27	21	31	24	26	30	28	649	livestock
010602	paper processing products	30	42	32	37	36	37	27	34	34	18	19	22	23	23	23	15	23	22	19	25	17	14	24	28	624	paper processing products
010801	non organic or organic chemical products	54	56	61	50	35	60	49	44	57	29	25	32	35	27	30	18	38	40	32	29	31	25	36	27	920	non organic or organic chemical products
011509	other transport equipment products	57	50	44	46	55	40	51	50	49	41	27	23	38	22	21	29	18	29	32	29	35	22	20	27	855	other transport equipment products
011305	other precision machine products	46	48	54	38	48	35	43	43	29	43	16	19	26	27	18	22	18	26	14	19	16	15	22	27	712	other precision machine products
130101	hospital	35	41	36	37	44	51	28	48	34	30	27	24	32	21	28	20	26	19	25	25	25	34	21	26	737	hospital
011101	nonferrous metals/rolling products	47	48	29	39	28	20	29	36	34	21	23	32	25	21	16	14	21	20	13	27	17	13	23	26	622	nonferrous metals/rolling products
030107	river civil engineering work	82	84	80	49	43	40	43	32	31	29	29	16	19	21	14	30	25	14	17	18	16	17	22	25	796	river civil engineering work
010909	other sand and stone products	216	213	183	151	133	106	103	107	110	72	69	81	67	69	54	64	58	38	36	36	41	41	38	23	2,109	other sand and stone products
010103	agricultural food products	30	16	24	24	18	15	16	20	19	12	22	14	16	14	13	19	14	14	16	13	16	19	10	23	417	agricultural food products
140301	golf course	59	68	55	60	46	59	45	61	69	34	43	31	35	24	18	28	28	25	31	24	18	13	15	22	911	golf course
050202	port cargo handling service	61	52	41	55	47	35	55	40	49	42	22	28	26	14	26	35	21	21	19	18	29	20	20	22	798	port cargo handling service
011109	other nonferrous metal products	35	40	36	29	31	33	36	38	28	33	23	22	24	24	25	19	16	20	12	14	8	15	15	22	598	other nonferrous metal products
080401	warehousing	27	19	25	20	21	13	23	19	30	19	14	15	14	20	18	23	29	11	22	23	16	15	22	22	480	warehousing
040309	other land cargo transportation service	43	32	29	22	33	19	43	43	32	18	17	11	17	24	23	15	14	12	13	20	16	6	6	21	529	other land cargo transportation service
010806	rubber products	23	25	35	27	29	12	20	23	34	19	15	26	17	22	17	19	18	10	17	16	17	12	14	21	488	rubber products
140209	other restaurants	30	49	44	44	61	57	57	55	47	44	48	51	45	44	34	57	41	39	32	33	34	21	20	20	1,007	other restaurants
010902	glass products	43	33	44	35	41	40	37	37	30	33	19	21	32	25	18	18	17	13	16	17	17	16	23	20	645	glass products
080202	auto mobile retail	19	21	13	22	22	19	18	18	19	25	15	16	13	13	22	17	11	20	15	13	13	12	16	20	412	auto mobile retail
140309	other amusement service	35	29	37	48	40	39	36	40	36	50	46	29	32	47	37	28	35	27	36	33	31	23	14	19	827	other amusement service
120109	other education/research service	40	37	30	32	35	26	30	39	31	40	19	24	31	24	24	26	29	22	28	26	23	21	18	19	674	other education/research service
011102	nonferrous metals casting products	38	26	38	28	23	32	32	34	35	26	11	23	29	15	21	21	21	25	21	25	15	11	17	19	586	nonferrous metals casting products
110101	telecommunication service	4	6		4	2	5	23	16	16	11	7	13	21	9	13	11	7	14	10	3	10	9	12	17	243	telecommunication service
010402	plywood	49	46	41	35	27	34	34	34	31	29	17	23	20	25	26	16	15	19	20	16	17	21	19	16	630	plywood
011703	cleaning	23	17	16	16	13	14	15	20	20	19	14	8	17	12	25	10	19	15	17	17	12	10	5	16	370	cleaning
010501	wood furniture	65	53	67	40	52	39	31	32	30	23	22	20	16	20	29	22	21	20	18	19	21	19	14	15	708	wood furniture

011401	heavy electrical equipment	9	15	16	14	14	10	17	15	17	12	11	9	6	13	10	11	11	13	10	15	11	13	6	15	293	heavy electrical equipment
080204	fuel retail	31	29	41	28	32	31	31	23	19	17	9	17	17	15	8	15	7	11	13	14	6	16	16	13	459	fuel retail
010701	printing service	28	42	34	24	23	31	23	29	22	20	20	25	23	18	21	17	18	16	15	11	16	19	17	12	524	printing service
040302	specific truck transportation service	48	42	26	27	43	30	34	25	25	13	21	15	14	14	17	17	9	11	15	21	14	20	8	11	520	specific truck transportation service
020201	quarrying	40	27	23	34	24	22	23	22	24	13	7	13	14	9	10	12	6	13	8	8	4	5	7	11	379	quarrying
030104	railway construction work	26	21	23	18	20	12	18	14	14	16	15	19	15	10	10	12	13	12	19	14	14	9	16	11	371	railway construction work
011402	electrical appliance	19	19	23	21	19	18	16	18	22	20	15	14	12	10	10	12	9	15	10	9	7	7	9	11	345	electrical appliance
140302	park and amusement park	6	14	6	11	7	7	4	4	9	2	6	3	1	7	4	3	6	3	4	7	8	4	4	11	141	park and amusement park
030105	bridge construction work	29	43	31	43	25	31	33	21	32	19	20	15	19	17	7	14	10	16	26	14	26	24	12	10	537	bridge construction work
030108	sand collapse prevention civil engineering work	41	53	32	27	19	20	18	14	12	16	9	15	13	15	8	6	3	3	6	7	6	5	9	10	367	sand collapse prevention civil engineering work
010609	other pulp/paper processing products	8	11	9	11	10	8	14	14	10	14	4	14	6	4	6	3	7	4	8	6	10	2	8	10	201	other pulp/paper processing products
040201	taxi service	3	16	12	5	7	5	5	16	5	8	7	7	13	11	2	4	7	4	2	6	6	5	6	10	172	taxi service
010803	pharmaceuticals	6	18	14	12	16	11	14	15	8	12	8	15	17	8	8	14	10	11	8	13	11	8	7	9	273	pharmaceuticals
010209	other textile products	16	16	10	13	25	10	13	15	11	7	4	5	11	19	14	10	13	6	9	9	9	7	7	9	268	other textile products
080203	furniture/fittings retail	14	16	23	11	13	8	12	11	8	14	8	7	12	10	11	8	11	11	11	6	9	10	9	9	262	furniture/fittings retail
011702	machine repair	35	39	60	42	41	40	48	35	34	45	32	27	27	34	26	23	20	16	15	20	13	25	14	8	719	machine repair
080101	all kinds of wholesale	37	36	34	20	20	17	12	21	17	9	6	5	4	6	4	4	5	13	13	5	3	1	5	8	305	all kinds of wholesale
030102	tunnel construction work	16	14	17	15	12	15	20	11	9	15	7	7	7	10	5	7	7	4	6	8	17	8	7	8	252	tunnel construction work
040202	bus service	12	15	18	5	12	13	6	14	15	12	10	12	11	9	10	12	7	3	7	5	5	6	10	8	237	bus service
100109	other movie/play service	2	3	5	1	2	5	4	1	1	3	5	4	3	5	5	3	4		2	5	3	1	3	8	78	other movie/play service
010309	other fiber products	15	17	18	14	7	7	8	18	8	10	4	13	6	11	7	11	4	6	6	6	9	6	5	7	223	other fiber products
011201	western tableware/cutting tool products	21	17	19	7	12	17	12	8	10	14	10	6	4	5	4	9	5	3	6	1	7	5	3	7	212	western tableware/cutting tool products
011202	screw products	5	14	17	11	15	9	10	16	11	15	5	8	7	9	6	2	7	5	9	6	8	3	6	7	211	screw products
010106	soft drinks	10	14	12	9	6	7	6	5	9	6	6	3	9	7	4	4	4	10	7	7		8	6	7	166	soft drinks
010503	fittings	34	31	29	27	27	23	25	15	17	14	8	17	12	8	6	11	7	8	8	4	5	8	3	6	353	fittings
070201	fishery	23	17	14	23	17	20	11	8	14	16	14	17	16	10	5	4	7	7	12	5	11	7	8	6	292	fishery
010204	dyeing	19	18	15	13	6	19	9	10	5	8	11	6	6	4	6	6	5	8	5	4	5	6	3	6	203	dyeing
070209	other fishery	14	7	7	12	10	8	12	12	6	10	2	3	6	2	7	11	1	7	8	7	6	9	4	6	177	other fishery
080302	beauty salon	7	7	5	7	4	6	5	5	5	5	2	2	5	3	2	1	4	8	8	4	7	5	5	6	118	beauty salon
130109	other medical treatment service	2	6	8	5	1	6	4	4	8	3	3	5	7	6	6	7	3	8	6	4	4	1	3	6	116	other medical treatment service
010804	petroleum/coal products	9	15	8	7	6	9	4	7	7	2	12	10	5	8	5	13	3	4	6	4	6	3	5	5	163	petroleum/coal products
010903	pottery products	9	11	14	9	12	13	8	8	2	5	3	6		3	6	7	8	7	5	2	2	8	4	5	157	pottery products
090209	other advertisement and mediator	7	9	6	4	7	5	7	8	6	7	3	5	2	5	1	6	4	2	4	4	5	1	3	5	116	other advertisement and mediator
010809	chemical fertilizer products	8	4	6	6	2	10	7	6	6	3		7	5	2	4	6	4	5	3	3	2	4	4	5	112	chemical fertilizer products
130102	general clinic	1	2	6	4	3	5	5	6	5	6	4	5	2	5	5	3	4	5	3	3	3	2	6	5	98	general clinic
010601	pulp/paper	18	21	13	17	17	17	16	19	13	12	11	14	7	9	8	5	10	5	11	7	6	7	15	4	282	pulp/paper
080205	newspaper retail	10	16	14	20	9	19	13	7	8	9	3	7	7	8	9	10	7	10	14	7	11	11	8	4	241	newspaper retail
170101	dispatch service	1	9	11	13	16	26	5	9	14	13	10	5	9	9	7	11	8	11	15	11	9	11	3	4	240	dispatch service
050201	general harbor transportation service	19	13	12	10	15	11	16	4	13	9	7	4	9	6	6	7	4	9	8	6	15	1	2	4	210	general harbor transportation service
010905	other ceramic products	11	12	8	7	15	5	12	3	10	7	6	3	2	4	3	5	7	2	4	1	2	4	4	4	141	other ceramic products
011503	railway vehicle products	11	9	5	7	10	11	7	6	6	8	6	2	4	3	4	2	4	4	3		6	6	7	4	135	railway vehicle products
011303	optical instruments	2	8	7	6	6	7	9	9	12	3	2	5	12	6	3	2	8	4	6	3	5	1	3	4	133	optical instruments

010502	metal furniture	16	4	9	8	7	7	4	6	8	3		2	3	5	3	6	5	2	2	4	5	8	1	4	122	metal furniture	
090103	insurance business	2	2	4	2	2	2	3	7	2		1	2	4	4	2	4	1	1	3	3	2	1	3	4	61	insurance business	
020209	other quarrying	2	3	3	1	2	4	2	4	4	5	3	3	2	2		1			1	1		1	2	4	50	other quarrying	
040101	railroad service	5	12	5	8	8	9	9	10	8	6	10	11	12	8	4	6	15	4	6	7	10	10	7	3	193	railroad service	
010105	alcoholic drinks	13	8	11	12	5	13	11	10	11	8	6	7	3	4	9	8	3	5	7	8	6	6	5	3	182	alcoholic drinks	
020202	gravel digging	13	16	17	12	10	7	13	6	6	10	3	5	2	8	3	4	3	4	3	7	5	3	2	3	165	gravel digging	
011302	measuring instruments	7	11	8	14	4	6	10	5	7	8	8	6	8	2	3	4	5	2	6	2	2	3	4	3	138	measuring instruments	
130301	bathhouse	7	6	3	4	4	3	7	4	15	6	2	2	2	5	7	5	1	5	8	6	4	5	2	3	116	bathhouse	
010709	other printing and bookbinding	9	5	6	3	4	6	6	3	2	5	4	5	6	3	1	1	4		3	3	3	2	3	3	90	other printing and bookbinding	
010203	weaving	13	5	8	10	2	11	4	7	4	2	4	3	6	6	3	1	5	2	3	1	4	4	5	2	115	weaving	
080102	furniture/fitings wholesale	10	9	9	8	3	6	3	9	1	3	3	4	6	6	6	6	2	2	5	2	1	2	2	2	110	furniture/fitings wholesale	
010904	fire resisting products	11	8	9	3		5	2	8	6	5	5	1	5	1	1	2	1	3	2	2	1	3	1	2	87	fire resisting products	
010802	chemical fiber	4	3		6	2	3	4	4	1	2	2	3	1	3		3	4	3	1	1	3	1	1	2	57	chemical fiber	
011304	watch products	2	1	3			2	1		1	1		1	3		1	4						1		2	23	watch products	
080301	haircut	1	1		1	1			4	2	1		1	1			1	2	2				3		2	23	haircut	
170202	information processing service	2	1		1	1		2							1	1	2	1	1	1		2		2	2	20	information processing service	
090201	traveling service			2				1				1		1	1	1	1	1	1			1			2	13	traveling service	
030111	port/seaside construction work	33	31	25	18	19	10	22	19	14	10	10	8	8	6	9	11	4	9	4	7	8	11	6	1	303	port/seaside construction work	
010509	other furniture	29	26	25	23	17	15	23	16	21	8	9	9	7	8	7	7	6	5		10	5	9	9	1	295	other furniture	
040303	cargo/ light automobile transportation service	4	1	5	6	3	11	3	4	8	3	1	7	2	1	1	2	2	4	4	3	3	1	1	1	81	cargo/ light automobile transportation service	
010807	leather products	9	4	4	5	7	3		6	3	3	6	2	1	2	3	1	2	1	6	1	3			1	73	leather products	
130309	other health and hygiene service	2	1	8	3	3	2	9	5	3	3	5	3	2	5	2	2	2	2	1	4	2	1	1	1	72	other health and hygiene service	
011602	city gas service	8	6	8	11	1	3	4	3	4		1	1	2	1	2	1	1	1	2		2	2	3	1	68	city gas service	
011603	city water service	2	3	3		3	2	5	8	5	4	2	4	2	2	2	2	4	2		1	2	1	2	1	62	city water service	
050209	other harbor transportation service		3	5	3	2	4	1		2	1	3	4	4	2	2	3	2	2	1	1	1	4	2	1	53	other harbor transportation service	
010702	bookbinding	2	4	4	3	2	9	1	2	4	2	3	1	2	2		1	2		1	2	1		2	1	51	bookbinding	
150105	livestock process service		3	3		2		5	2	2	1	3	2	1	2		1	2	3	2	5	3	1	1	1	45	livestock process service	
040103	airline service	3	1	2	3	1	1	1	3	5	3			2	5		2	1	2	3	2	1	1	1	1	44	airline service	
011601	electric utility service		1	2	3		3	3		4	2		2	4	1	1		1	1		1		3	2	1	35	electric utility service	
010202	cotton-spinning	4	2		3	4	3	1		1	1	2				2		1			3			2	1	30	cotton-spinning	
020309	other mining	3	5	1		1			3	1	2	2								2	1	2	3	1	1	1	29	other mining
090109	other financial business	3	2	9	2			2	1	1		1	3	2									1	1	1	29	other financial business	
010201	silk-reeling	4	1	1		1		2			1		1						1					2	1	15	silk-reeling	
100102	movie theatre										1		2		1										1	5	movie theatre	
090102	stock/commodity trade business	2							1															1	4	stock/commodity trade business		
160101	public office	10	8	10	11	8	6	9	6	4	5	1	7	2	2	2	1	3	3	5	3	4	3	6		119	public office	
010808	painting products	3	9	5	10	2	3	5	9	5	3	5	4	2	3	1	6	4	4	1	2	5	2	8		101	painting products	
100101	movie production and delivery service	2		4	2	2	2	2	2	1		4		1	1		1	3	1	1	2	52		1		84	movie production and delivery service	
040409	other transportation service	4	6	4	2	7	4	4	2	6	6	3	4	2		5	7	4	3	2	1	3	1	1		81	other transportation service	
010301	over/under wear	8	11	6	4	6	2	4	4	1			3	4	6	3			4		2	1	2	3		74	over/under wear	
030101	hydroelectric plant construction work	3	6	2	5	3	3	5	4	2		2			1	4	2	5	1	1	2	4	2			57	hydroelectric plant construction work	

020101	general coal mining	18	10	16	1						1									1	1								48	general coal mining	
030103	subway construction work	12	6	3		1	3	1	1	1	2	4	2	1		1					1	1								39	subway construction work
040102	water transportation service	2			2		2	4	3	1	2		3	2	1	3	2	2	2	2	1	1	1	2					38	water transportation service	
090101	banking/trust business	2	2	3	2		2		1	1	1	2	1	1	1	5		2	1	2	1	2	2						34	banking/trust business	
040209	other passenger transport service	3	2	1		1	2				1					4	1		1										16	other passenger transport service	
011704	tobacco products		2	3	1	2	1	1					3								1						1		15	tobacco products	
020301	metal mining	3		2	2	1	1	1		1										1	1		1						14	metal mining	
120101	auto mobile practical training	1		1	1	1		2		1					1			1	1	1	1	1	1	1					14	auto mobile practical training	
011609	other electric/gas/water service	1					1	2		1		2	1			2				1	1		1						13	other electric/gas/water service	
120102	software service	2	1								1							1	2	1	1	1							10	software service	
020302	petroleum mining									1	1					1														3	petroleum mining
150104	cremation service			1												1			1										3	cremation service	
020109	other coal mining			1	1																								2	other coal mining	
	total	14,831	14,351	13,664	12,769	11,840	11,771	11,263	11,414	10,945	9,687	8,076	8,080	8,155	8,316	8,044	8,141	7,473	7,319	7,390	7,260	7,204	6,647	6,665	7,065	228,370	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