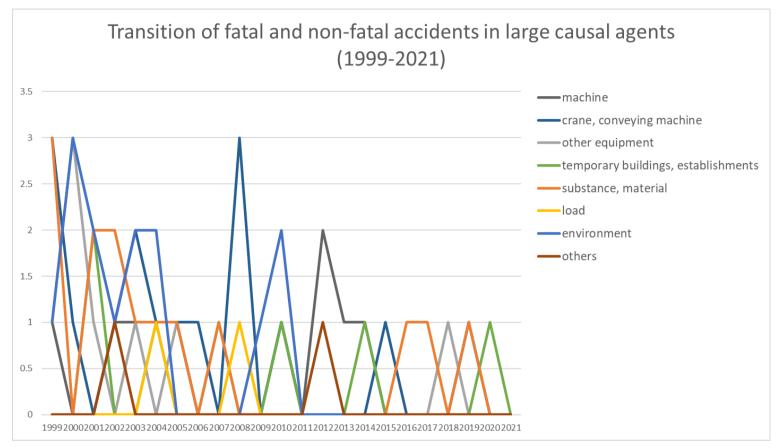
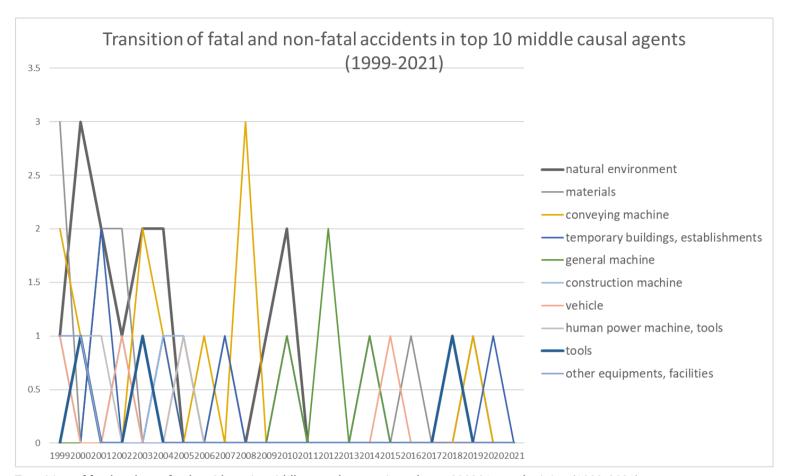
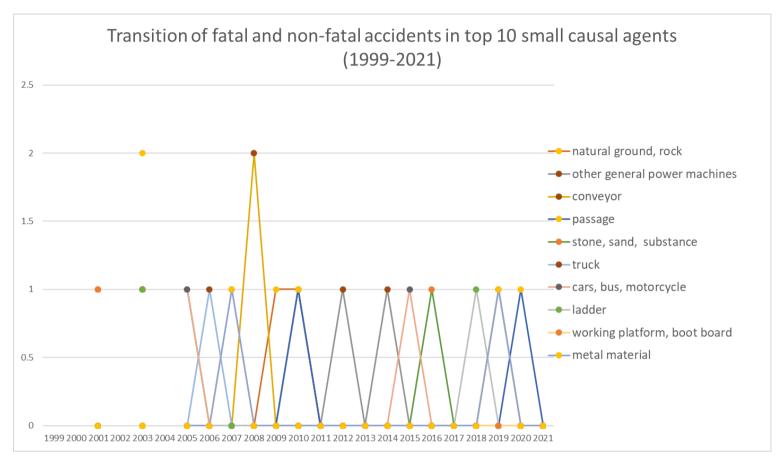
Transition of fatal and non-fatal accidents in each element like as causal agents, type of accidents, etc. in code no. 020301 metal mining (1999-2021)



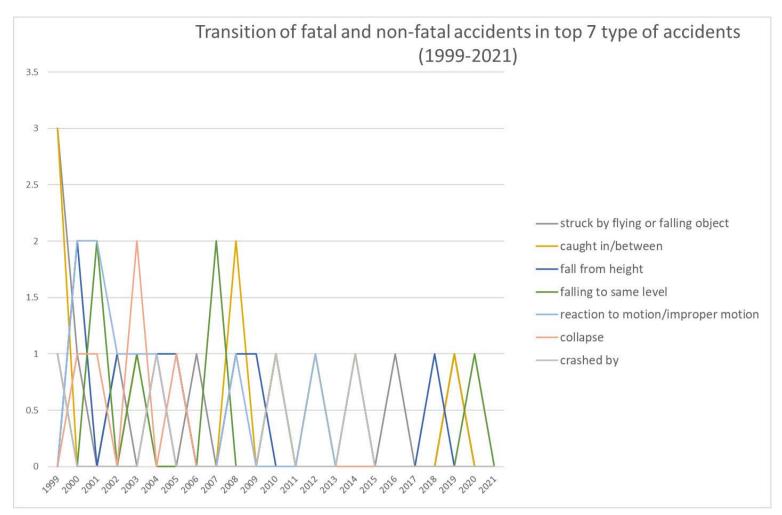
Transition of fatal and non-fatal accidents in large causal agents in code no. 020301 metal mining (1999-2021)



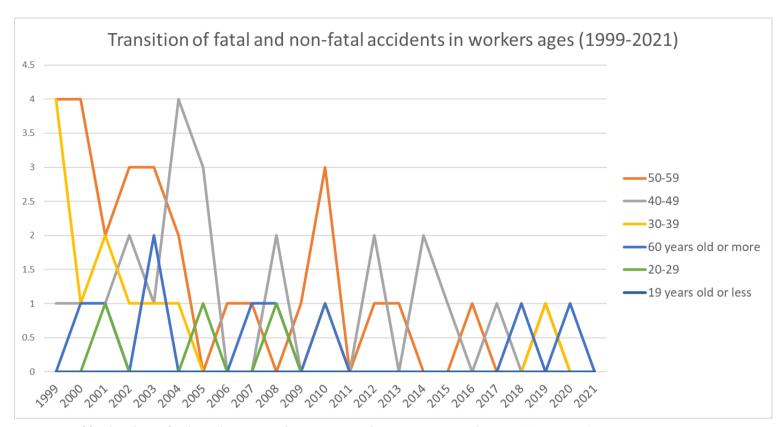
Transition of fatal and non-fatal accidents in middle causal agents in code no. 020301 metal mining (1999-2021)



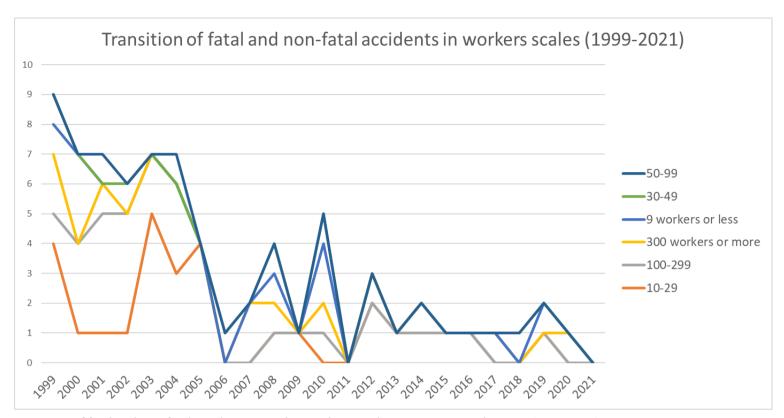
Transition of fatal and non-fatal accidents in small causal agents in code no. 020301 metal mining (1999-2021)



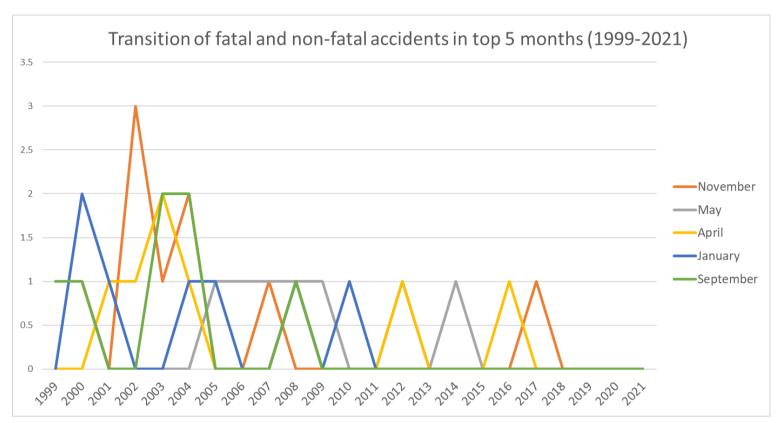
Transition of fatal and non-fatal accidents in type of accidents in code no. 020301 metal mining (1999-2021)



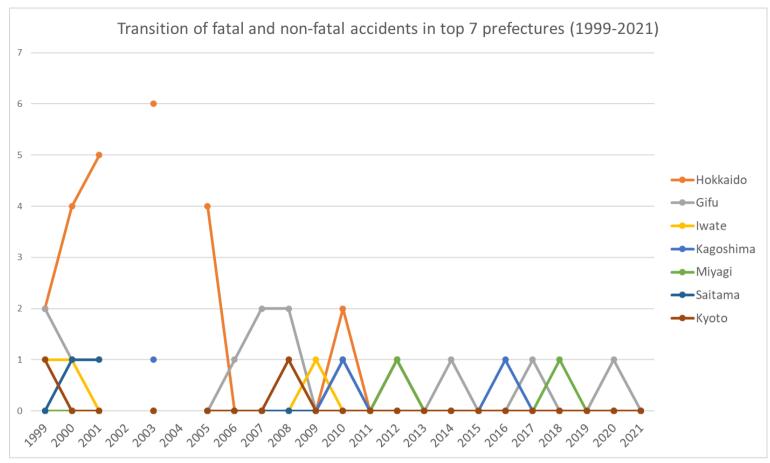
Transition of fatal and non-fatal accidents in workers ages in code no. 020301 metal mining (1999-2021)



Transition of fatal and non-fatal accidents in workers scales in code no. 020301 metal mining (1999-2021)



Transition of fatal and non-fatal accidents in months in code no. 020301 metal mining (1999-2021)



Transition of fatal and non-fatal accidents in prefectures in code no. 020301 metal mining (1999-2021)

Transition of fatal and non-fatal accidents in large causal agents in code no. 020301 metal mining (1999-2021)

code	Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (L) agents
1	machine	1			1	1	1	1					1		2	1	1								10	machine
2	crane, conveying machine	3	1		1	2	1	1	1		3		1					1				1			16	crane, conveying machine
																										other

3	other equipment	1	3	1		1		1												1			8	equipment
4	temporary buildings, establishments			2			1			1			1			1						1	7	temporary buildings, establishments
5	substance, material	3		2	2	1	1	1		1								1	1		1		14	substance, material
6	load						1				1												2	load
7	environment	1	3	2	1	2	2					1	2										14	environment
9	others				1									1									2	others
	total	9	7	7	6	7	7	4	1	2	4	1	5	3	1	2	1	1	1	1	2	1	73	total

Transition of fatal and non-fatal accidents in middle causal agents in code no. 020301 metal mining (1999-2021)

code	Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021		Causal (M) agents
71	natural environment	1	3	2	1	2	2					1	2												14	natural environment
52	materials	3		2	2		1	1		1									1			1			12	materials
22	conveying machine	2	1			2	1		1		3											1			11	conveying machine
41	temporary buildings, establishments			2			1			1			1				1						1		7	temporary buildings, establishments
16	general machine					1							1		2		1								5	general machine

14	construction machine	1			1		1	1										4	construction machine
23	vehicle	1			1			1						1				4	vehicle
36	human power machine,		1	1				1										3	human power
37	tools		1			1										1		3	tools
39	other equipments,	1	1															2	other equipments, facilities
51	hazards, harmful substances					1									1			2	hazards, harmful substances
61	load						1			1								2	load
12	power transmission mechanism												1					1	power transmission mechanism
21	crane										1							1	crane
91	other causal agent				1													1	other causal
92	no causal agent											1						1	no causal agent
11	engine																		engine
13	woodworking machine																		woodworking machine
	metal manufacturing																		metal

15	machine																							manufacturing
	machine																							machine
																								mobile
17	mobile silviculture																							silviculture
	machine																							machine
31	pressure vessel																							pressure vessel
22	1 . 16 . 19.																							chemical
32	chemical facilities																							facilities
22																								welding
33	welding equipment																							equipment
34	kiln, caldron																							kiln, caldron
																								electric
35	electric equipment																							equipment
99	unclassifiable																							unclassifiable
	total	9	7	7	6	7	7	4	1	2	4	1	5	3	1	2	1	1	1	1	2	1	73	total

Transition of fatal and non-fatal accidents in small causal agents in code no. 020301 metal mining (1999-2021)

code	Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (S) agents
711	natural ground,			1		2						1	1												5	natural ground,
169	other general power machines					1							1		1		1								4	other general power machines
224	conveyor					1					2											1			4	conveyor
417	passage			1									1										1		3	passage
	stone, sand,																									stone, sand,

523	substance		1		1									1					3	substance
221	truck			1		1													2	truck
231	cars, bus, motorcycle				1								1						2	cars, bus, motorcycle
371	ladder			1												1			2	ladder
416	working platform, boot board		1				1												∥2	working platform,
521	metal material						1										1		2	metal material
121	power transmission mechanism										1								1	power transmission mechanism
141	leveling, transporting or loading machine				1														1	leveling, transporting or loading machine
162	mixer, grinder									1									1	mixer, grinder
211	crane								1										1	crane
222	forklift							1											1	forklift
362	human power hauling equipment				1														1	human power
364	hand tool		1																1	hand tool
413	stairs, landing stage											1							1	stairs, landing stage
512	inflammable substance			1															1	inflammable substance
514	harmful substance														1				1	harmful substance
529	other materials		1																1	other materials

611	load						1							1	load
712	standing tree							1						1	standing tree
715	high/cold temperature environment		1											1	high/cold temperature environment
921	no causal agent								1					1	no causal agent
111	engine														engine
131	circular sawing machine														circular sawing machine
132	band sawing machine														band sawing machine
133	wood planer machine														wood planer machine
134	hollow chisel mortiser, wood borer														hollow chisel mortiser, wood borer
135	chamfering machine, router, woodworking milling machine														chamfering machine, router, woodworking milling machine
136	chain saw														chain saw
139	other woodworking machines														other woodworking machines
142	excavating machine														excavating machine
143	foundation work														foundation work

	machine													machine
144	hardening machine													hardening machine
145	demolition machine													demolition machine
146	vehicle for high lift work													vehicle for high lift work
149	other construction machines													other construction machines
151	lathe													lathe
152	drill press, milling machine													drill press, milling machine
153	grinding machine, buffing machine													grinding machine, buffing machine
154	power press													power press
155	forging pressure hammer													forging pressure
156	shearing machine													shearing machine
159	other metal manufacturing machines													other metal manufacturing machines
161	centrifugal machine													centrifugal machine
	roll machine (except printingroll machine)													roll machine (except printingroll machine)
164	injection molding machine													injection molding machine

165	food manufacturing												food manufacturing
	machine												machine
166	printing machine												printing machine
167	industrial robot												industrial robot
171	felling machine												felling machine
172	mobile logging												mobile logging
172	machine												machine
173	skyline yarding												skyline yarding
	machine												machine
179	other mobile												other mobile
179	silviculture machine												silviculture machine
212	mobile crane												mobile crane
213	derrick crane												derrick crane
214	elevator, lift												elevator, lift
215	cargo lifting												cargo lifting
213	appliance												appliance
216	gondola												gondola
	lumberyard												lumberyard
217	equipment, logging												equipment, logging
	cableway												cableway
210	simple skyline												simple skyline
218	yarding equipment												yarding equipment
219	other powered												other powered
213	crane												crane
223	railway equipment												railway equipment

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225	loader													loader
226	straddle carrier													straddle carrier
227	rough terrain hauler													rough terrain hauler
229	other powered													other powered
	conveying machines													conveying machines
232	railway vehicle													railway vehicle
239	other vehicles													other vehicles
311	boiler													boiler
312	pressure vessel													pressure vessel
319	other pressure													other pressure
	vessels													vessels
321	chemical facilities													chemical facilities
331	gas welding													gas welding
	equipment													equipment
332	arc welding													arc welding
	equipment													equipment
339	other welding													other welding
	equipment													equipment
341	kiln, caldron													kiln, caldron
342	industrial dryer													industrial dryer
349	other kiln, caldron													other kiln, caldron
351	transmission													transmission
352	electric power													electric power
	facilities													facilities

359	other electrical equipment	other electrical equipment
361	human power cranes	human power cranes
363	63 human power machine	human power machine
372	72 slinging tool	slinging tool
379	79 other tools	other tools
391	other equipment, 91 facilities	other equipment, facilities
411	11 scaffolding	scaffolding
412	12 timbering	timbering
414	14 opening	opening
415	roof, beam, haze, 15 crossbeam, principal rafter	roof, beam, haze, crossbeam, principal rafter
418	building, establishment	building, establishment
419	other temporary  19 buildings, establishments	other temporary buildings, establishments
511	11 explosive substance	explosive substan
513	13 inflammable gas	inflammable gas
515	15 radiation	radiation

519	other hazards,																				other hazards,
519	harmful substances																				harmful substances
522	lumber, bamboo																				lumber, bamboo
612	machine/equipment																				machine/equipment
012	as load																				as load
713	water																				water
714	abnormal																				abnormal
/ 14	environment																				environment
719	other environments																				other environments
911	other causal agent																				other causal agent
999	unclassifiable																				unclassifiable
	total		7	7	4	1	2	4	1	5	3	1	2	1	1	1	1	2	1	44	total

Transition of fatal and non-fatal accidents in type of accidents in code no. 020301 metal mining (1999-2021)

code	Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Type of accidents
04	struck by flying or falling object	3	1		1		1		1				1						1			1			10	struck by flying or falling object
07	caught in/between	3				1	1	1			2				1							1			10	caught in/between
01	fall from height		2		1	1	1	1			1	1									1				9	fall from height
02	falling to same level	1		2		1				2			1				1						1		9	falling to same
19	reaction to motion/improper motion		2	2	1	1	1				1				1										9	reaction to motion/improper motion

05	collapse		1	1		2		1					1										6	collapse
06	crashed by	1					1						1			1							4	crashed by
11	contact to high/low- temperature		1	1	1	1																	4	contact to high/low- temperature
17	traffic accident (public road)				1			1							1		1						4	traffic accident (public road)
03	crash	1		1			1																3	crash
08	cut													1									1	cut
10	drown						1																1	drown
12	contact to harmful substance																		1				1	contact to harmful substance
14	explosion												1										1	explosion
90	others				1																		1	others
09	injury to the sole of the foot																							injury to the sole of the foot
13	electric shock																							electric shock
15	burst																							burst
16	fire																							fire
18	traffic accident (others)																							traffic accident (others)
99	unclassifiable																							unclassifiable
	total	9	7	7	6	7	7	4	1	2	4	1	5	3	1	2	1	1	1	1	2	1	73	total

## Transition of fatal and non-fatal accidents in workers ages in code no. 020301 metal mining (1999-2021)

code	Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
5	50-59	4	4	2	3	3	2		1	1		1	3		1	1			1			1			28	50-59
4	40-49	1	1	1	2	1	4	3			2				2		2	1		1					21	40-49
3	30-39	4	1	2	1	1	1						1									1			12	30-39
6	60 years old or		1	1		2				1	1		1								1		1		9	60 years old or
	more																									more
2	20-29			1				1			1														3	20-29
1	19 years old or less																									19 years old or less
	total	9	7	7	6	7	7	4	1	2	4	1	5		3	1	2	1	1	1	1	2	1		73	total

## Transition of fatal and non-fatal accidents in workers scales in code no. 020301 metal mining (1999-2021)

code	Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Workers scale
2	10-29	4	1	1	1	5	3	4			1	1			2	1	1	1	1			1			28	10-29
5	100-299	1	3	4	4	2	3						1												18	100-299
6	300 workers or	2		1						2	1		1		1		1			1			1		11	300 workers or
	9 workers or less	1	3		1						1		2									1			9	9 workers or less
3	30-49	1							1		1		1								1				5	30-49
4	50-99			1			1																		2	50-99
	total	9	7	7	6	7	7	4	1	2	4	1	5		3	1	2	1	1	1	1	2	1		73	total

Transition of fatal and non-fatal accidents in months in code no. 020301 metal mining (1999-2021)

code	Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
11	November	1	1		3	1	2			1										1					10	November
5	May	1	1					1	1	1	1	1			1		1								9	May
4	April			1	1	2	1				1				1				1						8	April
1	January		2	1			1	1			1		1												7	January
9	September	1	1			2	2				1														7	September
12	December	2		1				1					1				1					1			7	December
3	March			1	1			1					2									1			6	March
8	August	3											1								1		1		6	August
10	October		1	1	1		1								1										5	October
6	June		1	1														1							3	June
7	July	1				2																			3	July
2	February			1												1									2	February
	total	9	7	7	6	7	7	4	1	2	4	1	5		3	1	2	1	1	1	1	2	1		73	total

## Transition of fatal and non-fatal accidents in prefectures in code no. 020301 metal mining (1999-2021)

code	Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
1	Hokkaido	2	4	5		6		4					2		1										24	Hokkaido
21	Gifu	2	1	1					1	2	2		1		1		1			1			1		14	Gifu
3	lwate	1	1									1													3	lwate
46	Kagoshima					1							1						1						3	Kagoshima
4	Miyagi														1						1				2	Miyagi
11	Saitama		1	1																					2	Saitama
26	Kyoto	1									1														2	Kyoto

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7	Fukushima	1																		1	Fukushima
8	Ibaraki									1										1	Ibaraki
9	Tochigi																	1		1	Tochigi
12	Chiba														1					1	Chiba
20	Nagano													1						1	Nagano
22	Shizuoka			ĺ					1											1	Shizuoka
25	Shiga	1																		1	Shiga
28	Hyogo			ĺ									1							1	Hyogo
39	Kochi	1																		1	Kochi
43	Kumamoto																	1		1	Kumamoto
2	Aomori																				Aomori
5	Akita																				Akita
6	Yamagata																				Yamagata
10	Gunma			ĺ																	Gunma
13	Tokyo																				Tokyo
14	Kanagawa																				Kanagawa
15	Niigata																				Niigata
16	Toyama																				Toyama
17	Ishikawa																				Ishikawa
18	Fukui																				Fukui
19	Yamanashi																				Yamanashi
23	Aichi																				Aichi
24	Mie																				Mie

27	Osaka																					Osaka
29	Nara																					Nara
30	Wakayama																					Wakayama
31	Tottori																					Tottori
32	Shimane																					Shimane
33	Okayama																					Okayama
34	Hiroshima																					Hiroshima
35	Yamaguchi																					Yamaguchi
36	Tokushima																					Tokushima
37	Kagawa																					Kagawa
38	Ehime																					Ehime
40	Fukuoka																					Fukuoka
41	Saga																					Saga
42	Nagasaki																					Nagasaki
44	Oita																					Oita
45	Miyazaki																					Miyazaki
47	Okinawa																					Okinawa
	total	9	7	7	7	4	1	2	4	1	5	3	1	2	1	1	1	1	2	1	60	total

Data source: https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm

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