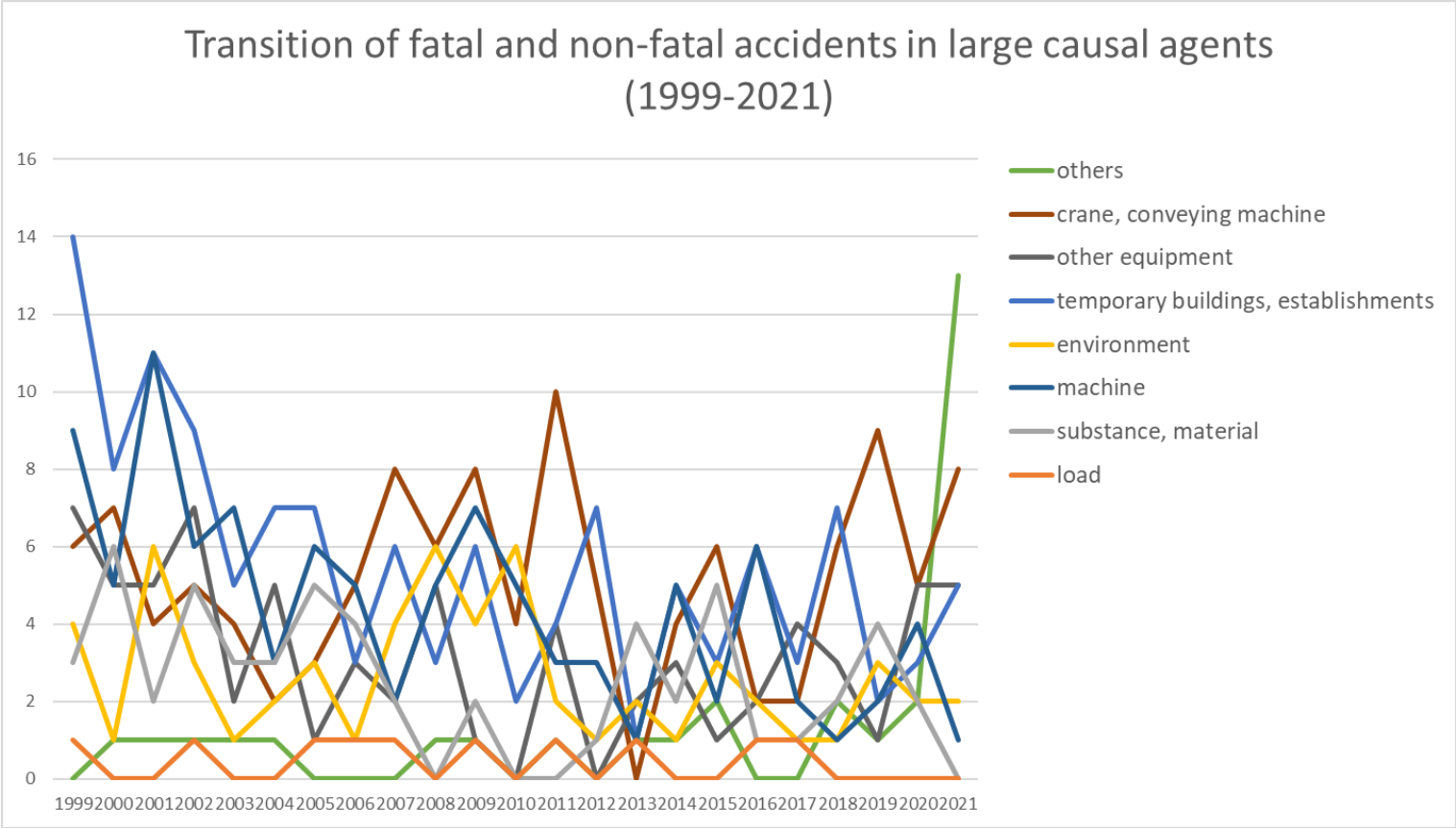
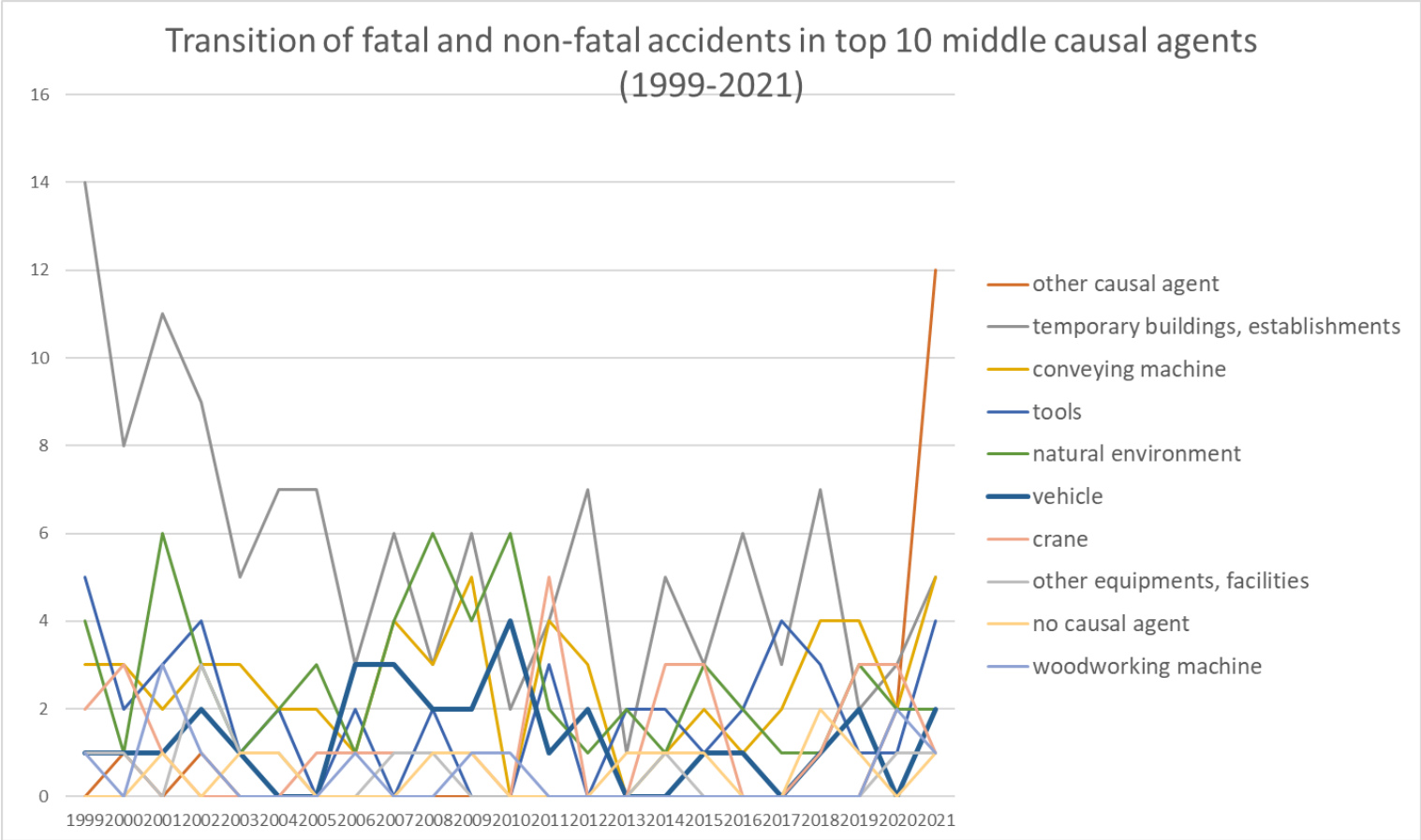
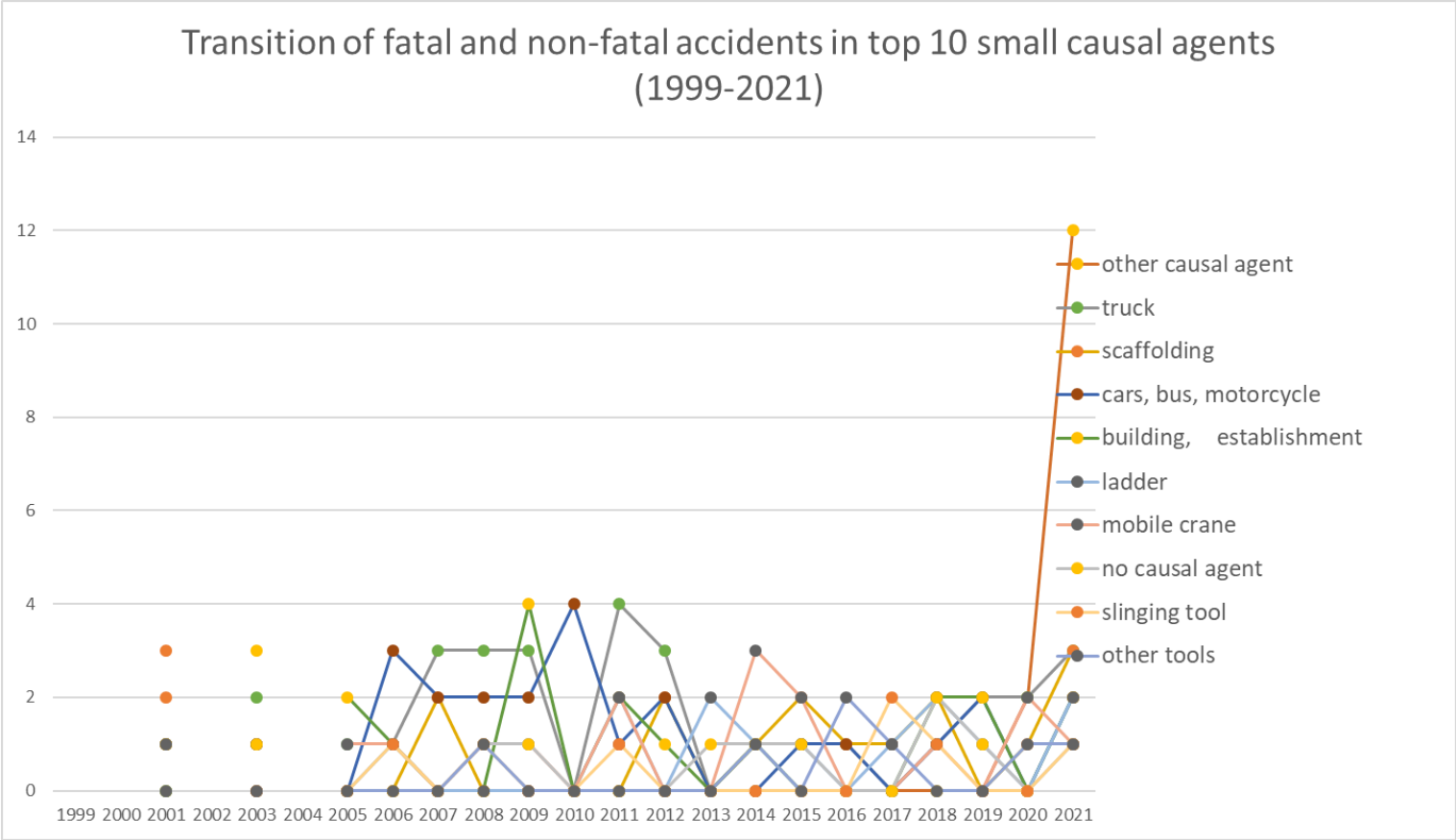
Transition of fatal and non-fatal accidents in each element like as causal agents, type of accidents, etc. in code no. 030101 hydroelectric plant construction work (1999-2021)



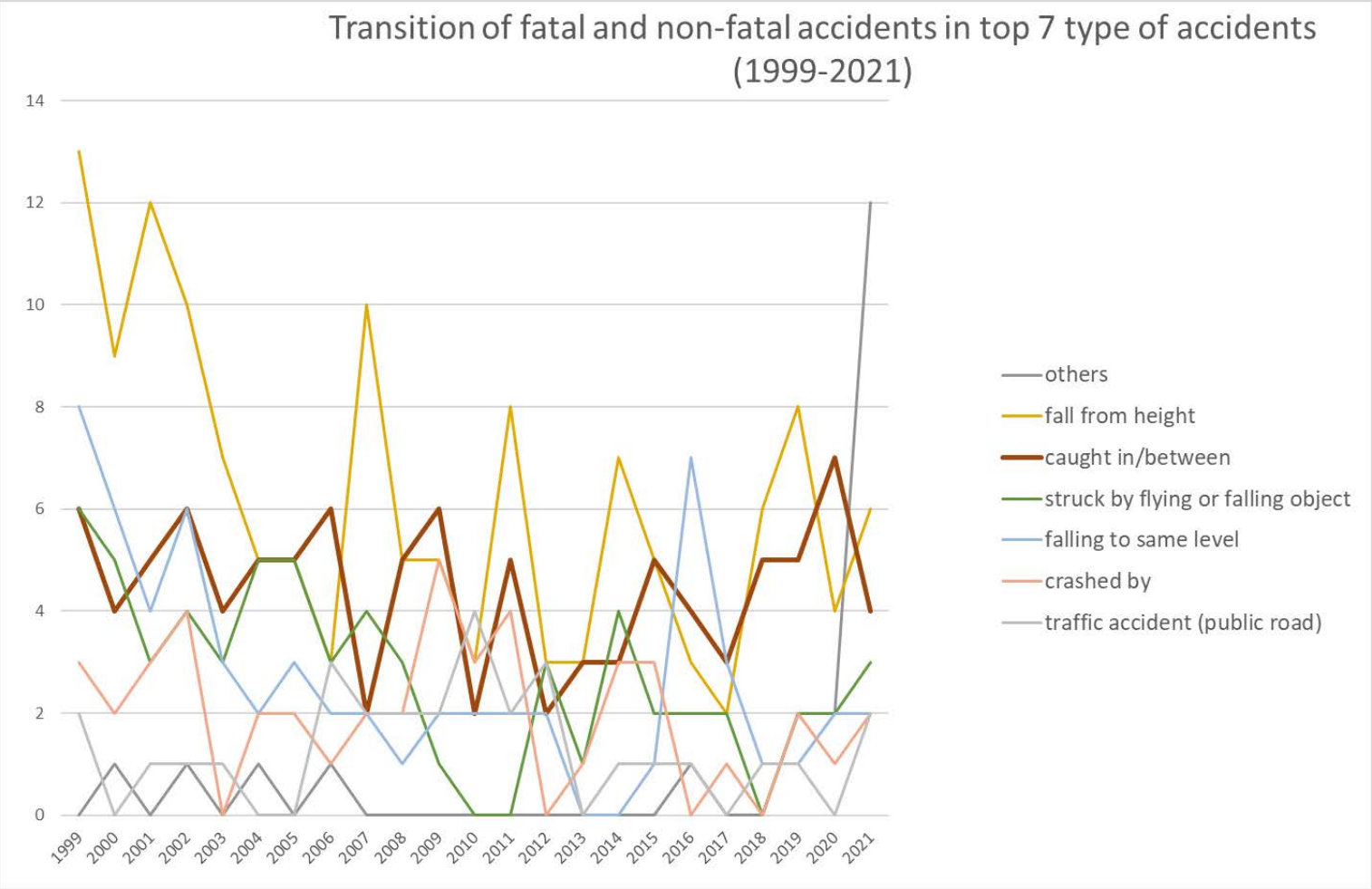
Transition of fatal and non-fatal accidents in large causal agents in code no. 030101 hydroelectric plant construction work (1999-2021)



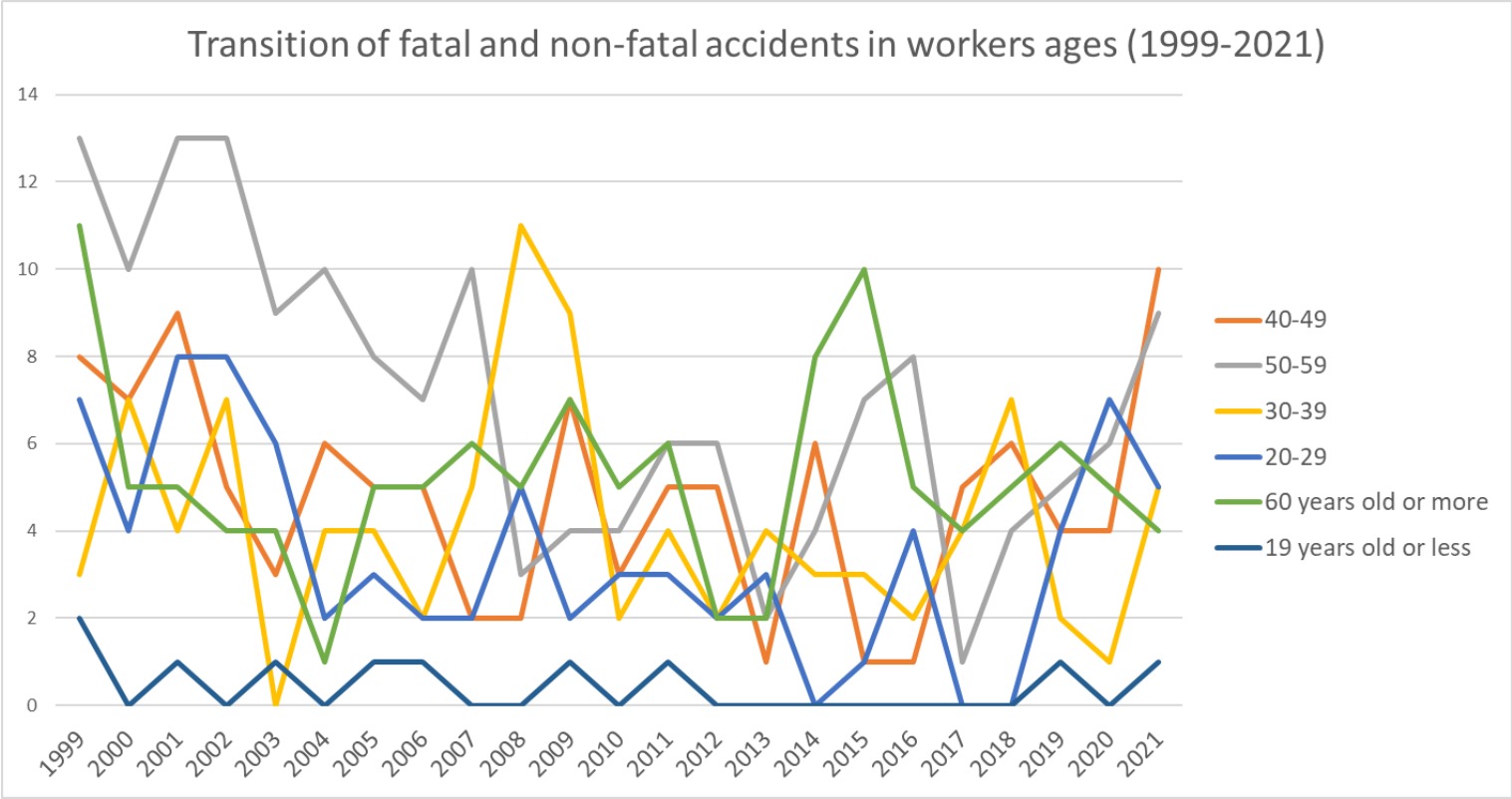
Transition of fatal and non-fatal accidents in middle causal agents in code no. 030101 hydroelectric plant construction work (1999-2021)



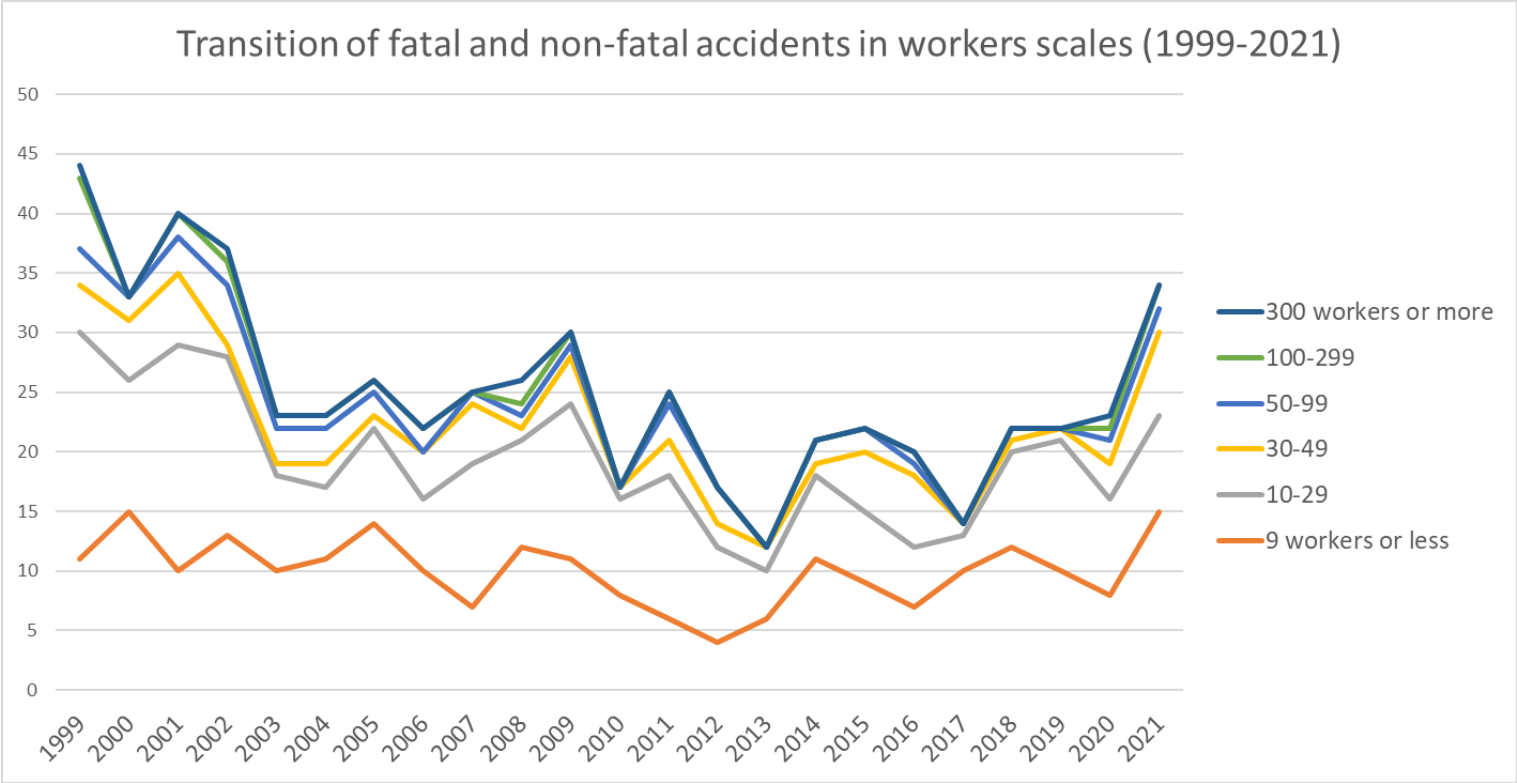
Transition of fatal and non-fatal accidents in small causal agents in code no. 030101 hydroelectric plant construction work (1999-2021)



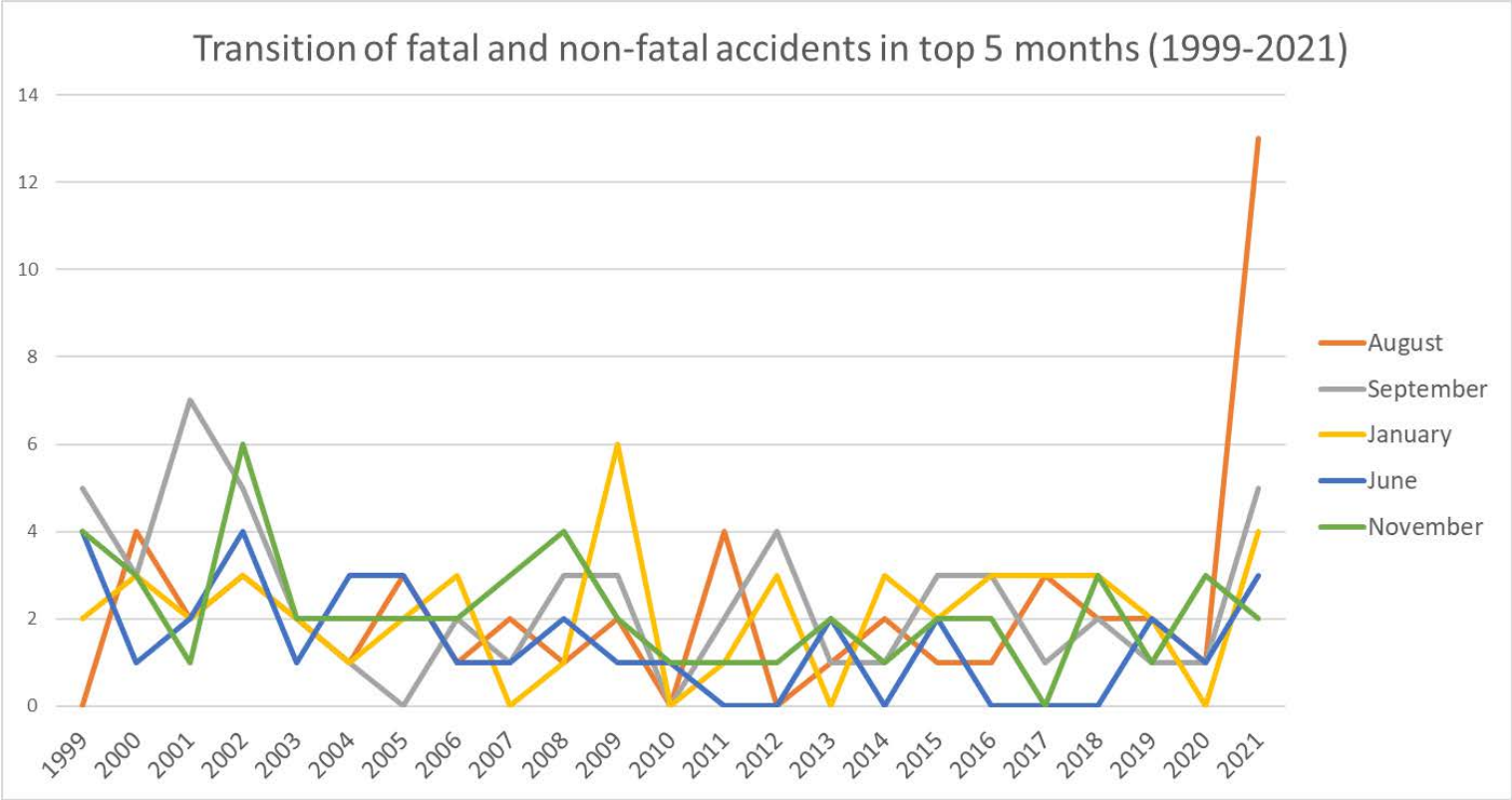
Transition of fatal and non-fatal accidents in type of accidents in code no. 030101 hydroelectric plant construction work (1999-2021)



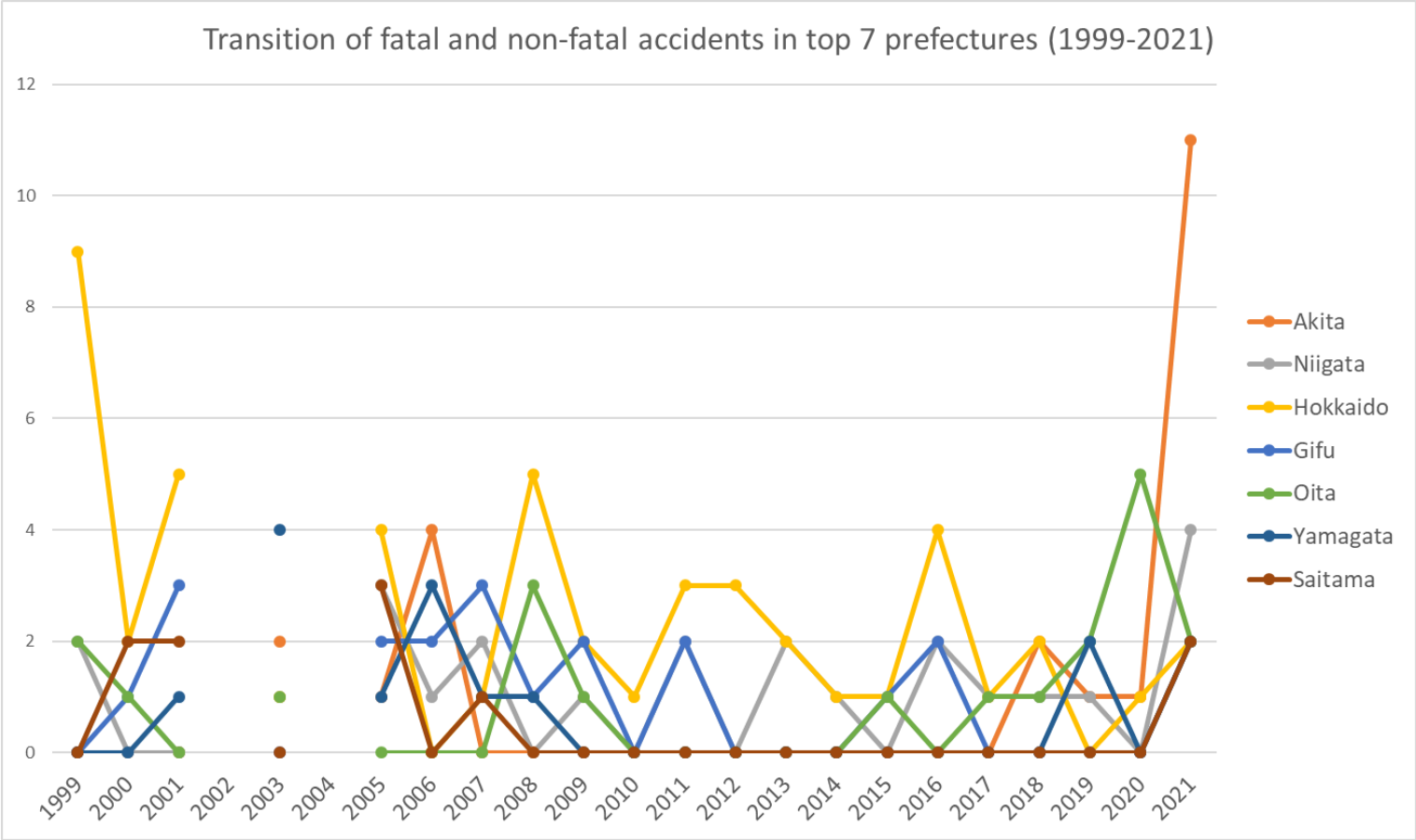
Transition of fatal and non-fatal accidents in workers ages in code no. 030101 hydroelectric plant construction work (1999-2021)



Transition of fatal and non-fatal accidents in workers scales in code no. 030101 hydroelectric plant construction work (1999-2021)



Transition of fatal and non-fatal accidents in months in code no. 030101 hydroelectric plant construction work (1999-2021)



Transition of fatal and non-fatal accidents in prefectures in code no. 030101 hydroelectric plant construction work (1999-2021)

Transition of fatal and non-fatal accidents in large causal agents in code no. 030101 hydroelectric plant construction work (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
9	others		1	1	1	1	1				1	1		1		1	1	2			2	1	2	13	30	others
2	crane, conveying machine	6	7	4	5	4	2	3	5	8	6	8	4	10	5		4	6	2	2	6	9	5	8	119	crane, conveying machine
																										other

3	other equipment	7	5	5	7	2	5	1	3	2	5	1		4		2	3	1	2	4	3	1	5	5	73	equipment
4	temporary buildings, establishments	14	8	11	9	5	7	7	3	6	3	6	2	4	7	1	5	3	6	3	7	2	3	5	127	temporary buildings, establishments
7	environment	4	1	6	3	1	2	3	1	4	6	4	6	2	1	2	1	3	2	1	1	3	2	2	61	environment
1	machine	9	5	11	6	7	3	6	5	2	5	7	5	3	3	1	5	2	6	2	1	2	4	1	101	machine
5	substance, material	3	6	2	5	3	3	5	4	2		2			1	4	2	5	1	1	2	4	2		57	substance, material
6	load	1			1			1	1	1		1		1		1			1	1					10	load
	total	44	33	40	37	23	23	26	22	25	26	30	17	25	17	12	21	22	20	14	22	22	23	34	578	total

Transition of fatal and non-fatal accidents in middle causal agents in code no. 030101 hydroelectric plant construction work (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	total	Causal (M) agents
91	other causal agent		1		1																		2	12	16	other causal agent
41	temporary buildings, establishments	14	8	11	9	5	7	7	3	6	3	6	2	4	7	1	5	3	6	3	7	2	3	5	127	temporary buildings, establishments
22	conveying machine	3	3	2	3	3	2	2	1	4	3	5		4	3		1	2	1	2	4	4	2	5	59	conveying machine
37	tools	5	2	3	4	1	2		2		2			3		2	2	1	2	4	3	1	1	4	44	tools
71	natural environment	4	1	6	3	1	2	3	1	4	6	4	6	2	1	2	1	3	2	1	1	3	2	2	61	natural environment

23	vehicle	1	1	1	2	1			3	3	2	2	4	1	2			1	1		1	2		2	30	vehicle
21	crane	2	3	1				1	1	1	1	1		5			3	3			1	3	3	1	30	crane
39	other equipments, facilities	1	1		3	1	1			1	1						1						1	1	12	other equipments, facilities
92	no causal agent			1		1	1				1	1				1	1	1			2	1		1	12	no causal agent
13	woodworking machine	1		3	1				1			1	1										2	1	11	woodworking machine
14	construction machine	8	5	6	3	6	3	4	2		3	4	4	2	2	1	5	1	4	2	1	2	1		69	construction machine
52	materials	3	5	2	5	2	3	5	2	2		2			1	4	2	4	1	1	2	4	1		51	materials
16	general machine			1	1			1	2		1	1		1	1			1	1				1		12	general machine
36	human power machine, tools	1	1	1			2	1	1	1	1			1									1		11	human power machine, tools
61	load	1			1			1	1	1		1		1		1			1	1					10	load
15	metal manufacturing machine				1	1		1		2		1							1						7	metal manufacturing machine
51	hazards, harmful substances		1			1			2									1					1		6	hazards, harmful substances
33	welding equipment											1											2		3	welding equipment

35	electric equipment		1	1							1														3	electric equipment
12	power transmission mechanism			1							1														2	power transmission mechanism
99	unclassifiable													1				1							2	unclassifiable
11	engine																									engine
17	mobile silviculture machine																									mobile silviculture machine
31	pressure vessel																									pressure vessel
32	chemical facilities																									chemical facilities
34	kiln, caldron																									kiln, caldron
	total	44	33	40	37	23	23	26	22	25	26	30	17	25	17	12	21	22	20	14	22	22	23	34	578	total

Transition of fatal and non-fatal accidents in small causal agents in code no. 030101 hydroelectric plant construction work (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
911	other causal agent																						2	12	14	other causal agent
221	truck					2		1	1	3	3	3		4	3		1	1	1		1	2	2	3	31	truck
411	scaffolding			3		1				2					2		1	2	1	1	2		1	3	19	scaffolding
231	cars, bus, motorcycle			1		1			3	2	2	2	4	1	2			1	1		1	2		2	25	cars, bus, motorcycle
418	building, establishment			1		3		2	1			4		2	1		1				2	2		2	21	building, establishment

371	ladder					1			1					2		2	1	1		1	2	1		2	14	ladder
212	mobile crane			1				1	1		1	1		2			3	2			1		2	1	16	mobile crane
921	no causal agent			1		1					1	1				1	1	1			2	1		1	11	no causal agent
372	slinging tool			2					1		1			1						2	1			1	9	slinging tool
379	other tools			1							1						1		2	1			1	1	8	other tools
391	other equipment, facilities					1				1	1						1						1	1	6	other equipment, facilities
712	standing tree							1				1	2							1				1	6	standing tree
229	other powered conveying machines			1		1						1								1				1	5	other powered conveying machines
223	railway equipment									1												1		1	3	railway equipment
715	high/cold temperature environment			1										1										1	3	high/cold temperature environment
136	chain saw																							1	1	chain saw
711	natural ground, rock			5		1		1		3	6	1	2		1	2	1	3	1			1	1		29	natural ground, rock
521	metal material			1		1		4	1	2		1				2	1	3	1	1	1	2	1		22	metal material
149	other construction machines			3		3		2			2	1	1	1	2	1		1	1				1		19	other construction machines
142	excavating machine			2		2		1			1	3	2	1			2		2	1					17	excavating machine
417	passage			3				2	1	2	2				1				2	1	1		1		16	passage
419	other temporary buildings,			1				1	1		1	2		1	1				2		1		1		12	other temporary buildings,

	establishments																										establishments
169	other general power machines			1				1	2		1	1		1	1			1	1				1		11	other general power machines
413	stairs, landing stage			2									1	1	1		1		1	1	1				9	stairs, landing stage
719	other environments							1	1	1		2	1						1			1	1		9	other environments
131	circular sawing machine			3								1	1										2		7	circular sawing machine
141	leveling, transporting or loading machine			1		1			2				1							1		1			7	leveling, transporting or loading machine
611	load								1	1		1		1		1			1	1					7	load
227	rough terrain hauler			1								1									2	1			5	rough terrain hauler
522	lumber, bamboo							1				1									1	2			5	lumber, bamboo
523	stone, sand, substance			1		1			1						1			1							5	stone, sand, substance
153	grinding machine, buffing machine					1		1		1									1						4	grinding machine, buffing machine
211	crane									1				1				1					1		4	crane
219	other powered crane													1								3			4	other powered crane
364	hand tool							1			1			1									1		4	hand tool
414	opening							1							1	1	1								4	opening
416	working platform, boot board			1		1							1				1								4	working platform, boot board
	foundation work																									foundation work

143	machine																2				1				3	machine
145	demolition machine							1									1		1						3	demolition machine
224	conveyor							1												1	1				3	conveyor
362	human power hauling equipment			1					1	1															3	human power hauling equipment
412	timbering							1		2															3	timbering
514	harmful substance								2									1							3	harmful substance
529	other materials															2	1								3	other materials
713	water													1							1	1			3	water
121	power transmission mechanism			1							1														2	power transmission mechanism
332	arc welding equipment																						2		2	arc welding equipment
519	other hazards, harmful substances					1																	1		2	other hazards, harmful substances
999	unclassifiable													1				1							2	unclassifiable
133	wood planer machine								1																1	wood planer machine
146	vehicle for high lift work																					1			1	vehicle for high lift work
152	drill press, milling machine											1													1	drill press, milling machine
155	forging pressure hammer									1															1	forging pressure hammer

214	elevator, lift													1											1	elevator, lift
222	forklift																	1							1	forklift
239	other vehicles									1															1	other vehicles
331	gas welding equipment											1													1	gas welding equipment
351	transmission										1														1	transmission
359	other electrical equipment			1																					1	other electrical equipment
415	roof, beam, haze, crossbeam, principal rafter																	1							1	roof, beam, haze, crossbeam, principal rafter
612	machine/equipment as load							1																	1	machine/equipment as load
714	abnormal environment												1												1	abnormal environment
111	engine																									engine
132	band sawing machine																									band sawing 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

139	other woodworking machines																									other woodworking machines
144	hardening machine																									hardening machine
151	lathe																									lathe
154	power press																									power press
156	shearing machine																									shearing machine
159	other metal manufacturing machines																									other metal manufacturing machines
161	centrifugal machine																									centrifugal machine
162	mixer, grinder																									mixer, grinder
163	roll machine (except printingroll machine)																									roll machine (except printingroll machine)
164	injection molding machine																									injection molding machine
165	food manufacturing machine																									food manufacturing machine
166	printing machine																									printing machine
167	industrial robot																									industrial robot
171	felling machine																									felling machine
172	mobile logging machine																									mobile logging machine
173	skyline yarding machine																									skyline yarding machine

179	other mobile silviculture machine																									other mobile silviculture machine
213	derrick crane																									derrick crane
215	cargo lifting appliance																									cargo lifting appliance
216	gondola																									gondola
217	lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway
218	simple skyline yarding equipment																									simple skyline yarding equipment
225	loader																									loader
226	straddle carrier																									straddle carrier
232	railway vehicle																									railway vehicle
311	boiler																									boiler
312	pressure vessel																									pressure vessel
319	other pressure vessels																									other pressure vessels
321	chemical facilities																									chemical facilities
339	other welding equipment																									other welding equipment
341	kiln, caldron																									kiln, caldron
342	industrial dryer																									industrial dryer
349	other kiln, caldron																									other kiln, caldron

352	electric power facilities																										electric power facilities
361	human power cranes																										human power cranes
363	human power machine																										human power machine
511	explosive substance																										explosive substance
512	inflammable substance																										inflammable substance
513	inflammable gas																										inflammable gas
515	radiation																										radiation
	total			40		23		26	22	25	26	30	17	25	17	12	21	22	20	14	22	22	23	34	441		total

Transition of fatal and non-fatal accidents in type of accidents in code no. 030101 hydroelectric plant construction work (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
90	others		1		1		1		1										1			2	2	12	21	others
01	fall from height	13	9	12	10	7	5	5	3	10	5	5	3	8	3	3	7	5	3	2	6	8	4	6	142	fall from height
07	caught in/between	6	4	5	6	4	5	5	6	2	5	6	2	5	2	3	3	5	4	3	5	5	7	4	102	caught in/between
04	struck by flying or falling object	6	5	3	4	3	5	5	3	4	3	1			3	1	4	2	2	2		2	2	3	63	struck by flying or falling object
02	falling to same level	8	6	4	6	3	2	3	2	2	1	2	2	2	2			1	7	3	1	1	2	2	62	falling to same level
06	crashed by	3	2	3	4		2	2	1	2	2	5	3	4		1	3	3		1		2	1	2	46	crashed by
	traffic accident (public																									traffic accident

17	road)	2		1	1	1			3	2	2	2	4	2	3		1	1	1		1	1		2	30	(public road)
08	cut	1		4	3			2	1	1	2	1	1				1	1	1				2	1	22	cut
19	reaction to motion/improper motion			1		1	2	1		1	2	1				1	1	2			3		1	1	18	reaction to motion/improper motion
11	contact to high/low-temperature			1							1	1		1	1						1		1	1	8	contact to high/low-temperature
05	collapse	2	2	4	1	2		2			2	2	1		1	3		1	1	1	1	1			27	collapse
03	crash	3	2		1	1		1		1	1	3		1	2					2	3				21	crash
12	contact to harmful substance		1			1			2				1					1					1		7	contact to harmful substance
10	drown						1					1		1			1				1				5	drown
09	injury to the sole of the foot		1	1																					2	injury to the sole of the foot
13	electric shock			1																					1	electric shock
18	traffic accident (others)													1											1	traffic accident (others)
14	explosion																									explosion
15	burst																									burst
16	fire																									fire
99	unclassifiable																									unclassifiable
	total	44	33	40	37	23	23	26	22	25	26	30	17	25	17	12	21	22	20	14	22	22	23	34	578	total

Transition of fatal and non-fatal accidents in workers ages in code no. 030101 hydroelectric plant construction work (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
4	40-49	8	7	9	5	3	6	5	5	2	2	7	3	5	5	1	6	1	1	5	6	4	4	10	110	40-49
5	50-59	13	10	13	13	9	10	8	7	10	3	4	4	6	6	2	4	7	8	1	4	5	6	9	162	50-59
3	30-39	3	7	4	7		4	4	2	5	11	9	2	4	2	4	3	3	2	4	7	2	1	5	95	30-39
2	20-29	7	4	8	8	6	2	3	2	2	5	2	3	3	2	3		1	4			4	7	5	81	20-29
6	60 years old or more	11	5	5	4	4	1	5	5	6	5	7	5	6	2	2	8	10	5	4	5	6	5	4	120	60 years old or more
1	19 years old or less	2		1		1		1	1			1		1								1		1	10	19 years old or less
	total	44	33	40	37	23	23	26	22	25	26	30	17	25	17	12	21	22	20	14	22	22	23	34	578	total

Transition of fatal and non-fatal accidents in workers scales in code no. 030101 hydroelectric plant construction work (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
1	9 workers or less	11	15	10	13	10	11	14	10	7	12	11	8	6	4	6	11	9	7	10	12	10	8	15	230	9 workers or less
2	10-29	19	11	19	15	8	6	8	6	12	9	13	8	12	8	4	7	6	5	3	8	11	8	8	214	10-29
3	30-49	4	5	6	1	1	2	1	4	5	1	4	1	3	2	2	1	5	6	1	1	1	3	7	67	30-49
4	50-99	3	2	3	5	3	3	2		1	1	1		3	3		2	2	1		1		2	2	40	50-99
5	100-299	6		2	2	1	1	1	2		1	1		1					1				1	2	22	100-299
6	300 workers or more	1			1						2												1		5	300 workers or more
	total	44	33	40	37	23	23	26	22	25	26	30	17	25	17	12	21	22	20	14	22	22	23	34	578	total

Transition of fatal and non-fatal accidents in months in code no. 030101 hydroelectric plant construction work (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
8	August		4	2	3	2	1	3	1	2	1	2		4		1	2	1	1	3	2	2	1	13	51	August
9	September	5	3	7	5	2	1		2	1	3	3		2	4	1	1	3	3	1	2	1	1	5	56	September
1	January	2	3	2	3	2	1	2	3		1	6		1	3		3	2	3	3	3	2		4	49	January
6	June	4	1	2	4	1	3	3	1	1	2	1	1			2		2				2	1	3	34	June
11	November	4	3	1	6	2	2	2	2	3	4	2	1	1	1	2	1	2	2		3	1	3	2	50	November
2	February		4	3	6	1	2	2		2	2	5			3	1	1	1	2	1	1	2	3	2	44	February
10	October	4	2	6		4	4	5	3	4	5	1	2	3	2		5	1	2	3	2	1	4	1	64	October
3	March	12	3	1	3	1	1	4		3	3	1	1	4	1	2	2	3	1		2	3	2	1	54	March
12	December	2	3	4	1	2	1	2	3	5		4	3	4				2		2	4		2	1	45	December
4	April	4		3	2	5		2	1	2	1	3	5					1	4	1	2	4	1	1	42	April
7	July	3	3	4	1		4	1	1		2	1	2	3	3		1	3	1		1	3	4	1	42	July
5	May	4	4	5	3	1	3		5	2	2	1	2	3		3	5	1	1			1	1		47	May
	total	44	33	40	37	23	23	26	22	25	26	30	17	25	17	12	21	22	20	14	22	22	23	34	578	total

Transition of fatal and non-fatal accidents in prefectures in code no. 030101 hydroelectric plant construction work (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
5	Akita					2		1	4												2	1	1	11	22	Akita
15	Niigata	2				1		3	1	2		1		2		2	1		2	1	1	1		4	24	Niigata
1	Hokkaido	9	2	5		1		4		1	5	2	1	3	3	2	1	1	4	1	2		1	2	50	Hokkaido
21	Gifu		1	3				2	2	3	1	2		2				1	2					2	21	Gifu
44	Oita	2	1			1					3	1						1		1	1	2	5	2	20	Oita
6	Yamagata			1		4		1	3	1	1											2		2	15	Yamagata
11	Saitama		2	2				3		1														2	10	Saitama

29	Nara					2						1	1						1		1			2	8	Nara
7	Fukushima	2	1	3						4	1	1		1	1	1	1	1			1	1		1	20	Fukushima
23	Aichi		2							1	1	1			1	1	2		1	2	1	1		1	15	Aichi
4	Miyagi	1						1	1			2	4								2		2	1	14	Miyagi
46	Kagoshima	1		1										3		1	1	3				1	1	1	13	Kagoshima
28	Hyogo	1	1	2													1			1				1	7	Hyogo
32	Shimane											1									1			1	3	Shimane
17	Ishikawa																							1	1	Ishikawa
22	Shizuoka	2	6	2		2		2	2		1	1					2					4			24	Shizuoka
13	Tokyo	3						1				2	2	1	2	1	2	1		1	1	1			18	Tokyo
16	Toyama	3		4							1			1	1		2	2					2		16	Toyama
40	Fukuoka	3		1							1	1		3	2		1	1	3						16	Fukuoka
43	Kumamoto	1		2					1		1		1	1	1			2	1	1	1		1		14	Kumamoto
3	Iwate	1	1	1					2		3	1			1				2		1				13	Iwate
2	Aomori	2							1	1		1	1		1	1		1		1			2		12	Aomori
12	Chiba	1				2						1			3			1			2		2		12	Chiba
45	Miyazaki	1	3	3		2								2											11	Miyazaki
10	Gunma	1	3	1					1										1	1		1	1		10	Gunma
20	Nagano	2				1		2						1				1		1	1		1		10	Nagano
27	Osaka								2	1			2	1				2				1			9	Osaka
33	Okayama		3	2		1						2									1				9	Okayama
34	Hiroshima	1		1						1	2							1		2	1				9	Hiroshima
14	Kanagawa			2						3								1					2		8	Kanagawa

24	Mie										1			1		2	3		1							8	Mie
39	Kochi							2		2	1	2					1									8	Kochi
8	Ibaraki		1			1		1				2										2			7	Ibaraki
26	Kyoto	1									2		1				2				1				7	Kyoto
35	Yamaguchi		1	1		1				1				1								1	1		7	Yamaguchi
37	Kagawa	2	1	1										1						1			1		7	Kagawa
36	Tokushima										1	2							2			1			6	Tokushima
41	Saga		1					1	1			1	1												5	Saga
19	Yamanashi		1					1				1						1							4	Yamanashi
25	Shiga			1		1				2															4	Shiga
31	Tottori	1		1									1	1											4	Tottori
38	Ehime	1											1			1						1			4	Ehime
9	Tochigi									1		1	1												3	Tochigi
18	Fukui														1						1	1			3	Fukui
30	Wakayama		1			1											1								3	Wakayama
42	Nagasaki								1									1							2	Nagasaki
47	Okinawa		1					1																	2	Okinawa
	total	44	33	40		23		26	22	25	26	30	17	25	17	12	21	22	20	14	22	22	23	34	518	total

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