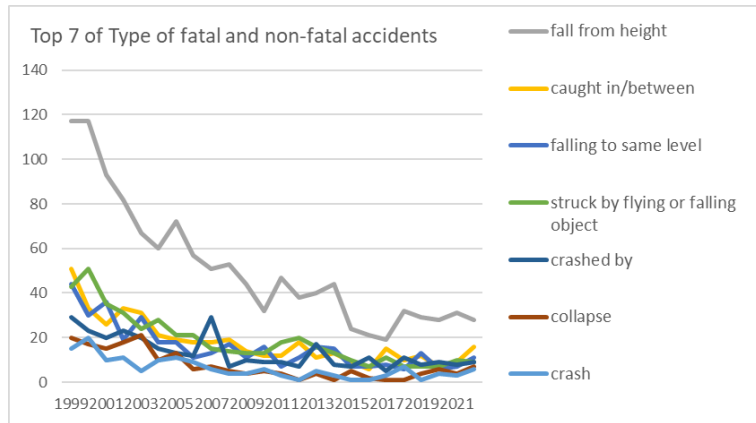
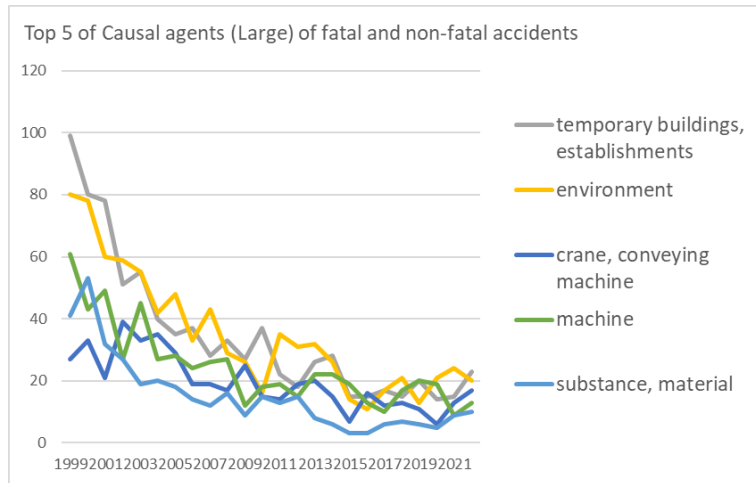


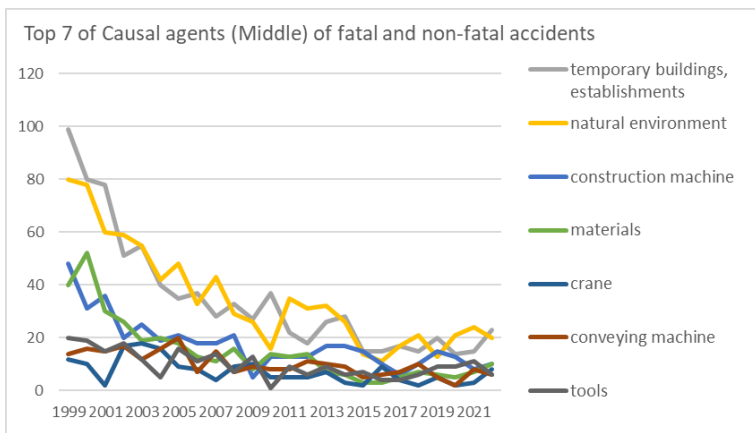
Transition of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)



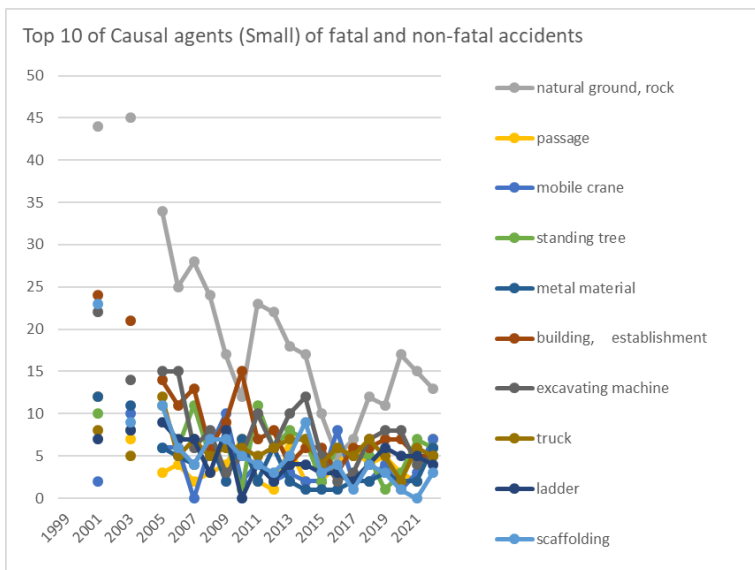
Transition of Top 7 of Type of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)



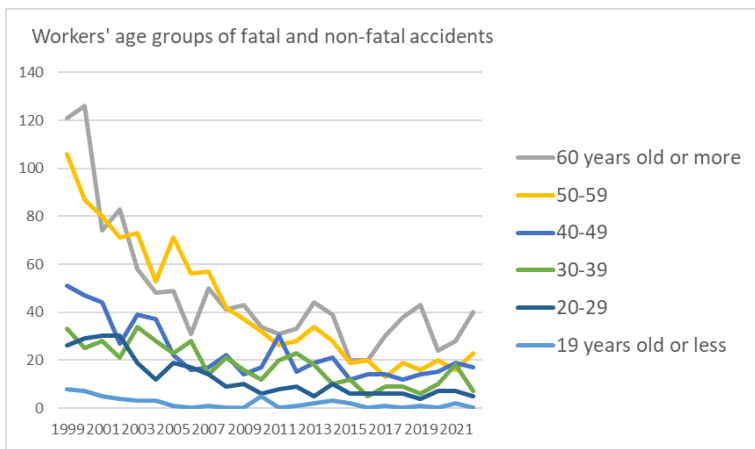
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)



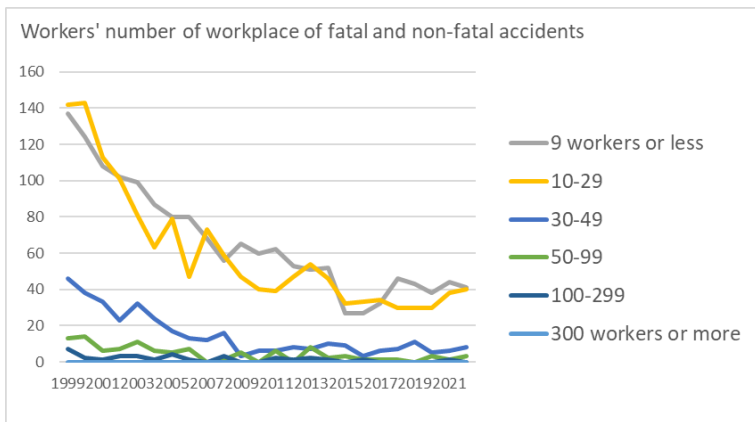
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)



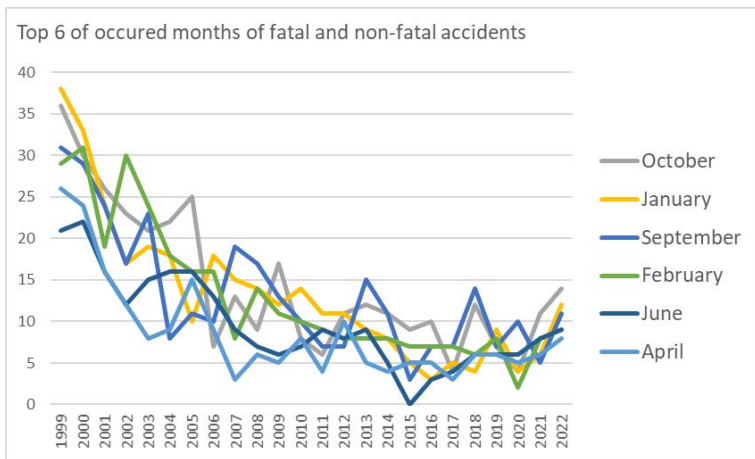
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)



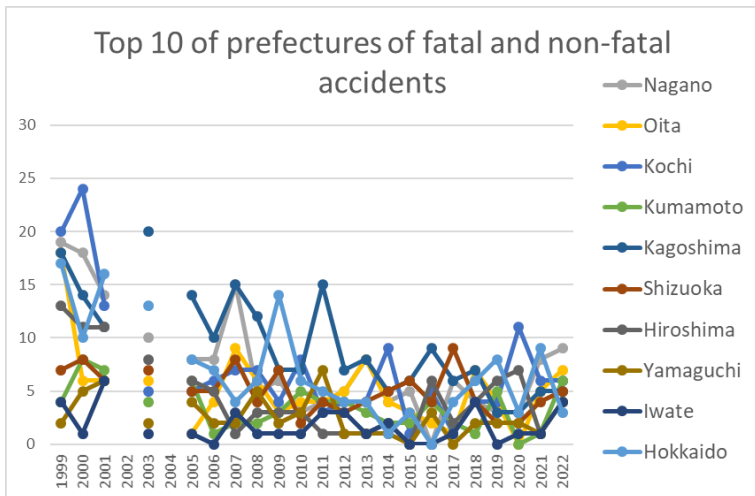
Transition of workers' age groups of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)

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	2022	total	Type of accidents
fall from height	117	117	93	82	67	60	72	57	51	53	44	32	47	38	40	44	24	21	19	32	29	28	31	28	1,226	fall from height
caught in/between	51	33	26	33	31	21	19	18	18	19	14	12	12	18	11	13	9	6	15	10	12	7	9	16	433	caught in/between

falling to same level	44	30	36	19	29	18	18	11	13	17	11	16	7	11	16	15	7	7	8	6	13	6	7	11	376	falling to same level
struck by flying or falling object	43	51	35	31	24	28	21	21	15	14	13	13	18	20	16	13	10	7	11	7	7	7	10	9	444	struck by flying or falling object
crashed by	29	23	20	23	20	15	13	12	29	7	10	9	9	7	17	8	7	11	5	11	8	9	8	9	319	crashed by
collapse	20	17	15	18	21	10	13	6	7	5	4	5	4	1	4	1	5	2	1	1	4	6	4	7	181	collapse
crash	15	20	10	11	5	10	11	9	6	4	4	6	3	1	5	3	1	1	3	7	1	4	3	6	149	crash
cut	12	10	10	3	17	8	6	4	5	5	7	4	4	3	4	7	2	3	4	4	4	5	1	2	134	cut
traffic accident (public road)	2	7	7	6	1	4	4	5	4	4	7	2	3	7	2	5	1	5	3	2	1	2	5	2	91	traffic accident (public road)
reaction to motion/improper motion	7	7	2	8	6	6	4	3	1	3	1	4	4		2	1	3	2	2	2	4	1	2	2	77	reaction to motion/improper motion
others	1	3	3		1		3	1	1		2		1	1						1			5		23	others
contact to high/low-temperature	2	1	1		2	1			1		1	2		1	3				1	1	1	1	1		20	contact to high/low-temperature
contact to harmful substance		1	1	1				1	1	2	1	1	1	1	1	1							3		16	contact to harmful substance
injury to the sole of the foot	1	1	2		1		1			2			1										1		10	injury to the sole of the foot
fire													1					1		1					3	fire
unclassifiable					1				1									1							3	unclassifiable
traffic accident				1																					2	traffic accident

(others)																										(others)	
explosion	1																									1	explosion
burst										1																1	burst
drown																											drown
electric shock																											electric shock
total	345	321	261	236	226	181	185	148	153	135	120	106	115	109	122	111	71	65	73	84	84	76	90	92	3,509	total	

Transition of Causal agents (Large) of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)

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	2022	total	Causal (L) agents
temporary buildings, establishments	99	80	78	51	55	40	35	37	28	33	27	37	22	18	26	28	15	15	17	15	20	14	15	23	828	temporary buildings, establishments
environment	80	78	60	59	55	42	48	33	43	29	26	16	35	31	32	26	14	11	17	21	13	21	24	20	834	environment
crane, conveying machine	27	33	21	39	33	35	29	19	19	17	25	15	14	19	20	15	7	16	12	13	11	6	13	17	475	crane, conveying machine
machine	61	43	49	27	45	27	28	24	26	27	12	18	19	15	22	22	19	13	10	17	20	19	9	13	585	machine
substance, material	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	substance, material
other equipment	31	28	19	25	16	12	21	18	21	7	16	4	10	9	12	12	9	6	8	9	10	9	13	9	334	other equipment
load	2	2	2	5	2	3	4	2	2	5	4		1	1	1	2	1	1	2	1	2	1	1		47	load
others	4	4		3	1	2	2	1	2	1	1	1	1	1	1		3		1	1	2	1	6		39	others
total	345	321	261	236	226	181	185	148	153	135	120	106	115	109	122	111	71	65	73	84	84	76	90	92	3,509	total











mechanism																							1					1	2	mechanism
vehicle for high lift work															1													1	2	vehicle for high lift work
chain saw			3		8			3		2	3	1	1		1	2		2	2		2	1							31	chain saw
other powered conveying machines			5		2		6	1	6		2	1	1	3	1	1			1	1									31	other powered conveying machines
load			2		2		3	2	2	4	4		1	1	1	2	1		2	1	2	1							31	load
circular sawing machine			3		3		2		3	1	1		2	1		2			1		1								20	circular sawing machine
no causal agent					1		2	1	1			1			1		2		1	1	2		1						14	no causal agent
high/cold temperature environment			1					1	1		1	1		1	3				1	1		1	1						13	high/cold temperature environment
grinding machine, buffing machine					1				1	1	1		1			1	1		2		1								10	grinding machine, buffing machine
other causal agent										1	1		1								1	5							9	other causal agent
foundation work machine					1		1			1				2			1					1	1						8	foundation work machine
roof, beam, haze, crossbeam, principal rafter								3		1		1					1	1											7	roof, beam, haze, crossbeam, principal rafter
railway equipment									1	1		1							1								2		6	railway equipment
hardening machine									1			2					2												5	hardening machine
other metal manufacturing					2					1			1																5	other metal manufacturing



forklift																									1	forklift		
transmission														1													1	transmission
engine																												engine
band sawing machine																												band sawing machine
wood planer machine																												wood planer machine
hollow chisel mortiser, wood borer																												hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																												chamfering machine, router, woodworking milling machine
lathe																												lathe
drill press, milling machine																												drill press, milling machine
power press																												power press
forging pressure hammer																												forging pressure hammer
shearing machine																												shearing machine
centrifugal machine																												centrifugal machine
roll machine (except printingroll machine)																												roll machine (except printingroll machine)





total	345	321	261	236	226	181	185	148	153	135	120	106	115	109	122	111	71	65	73	84	84	76	90	92	3,509	total
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Transition of workers' age groups of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)

Age	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	Age
60 years old or more	121	126	74	83	58	48	49	31	50	41	43	34	31	33	44	39	20	20	30	38	43	24	28	40	1,148	60 years old or more
50-59	106	87	80	71	73	53	71	56	57	42	37	32	26	28	34	28	19	20	13	19	16	20	16	23	1,027	50-59
40-49	51	47	44	27	39	37	22	16	17	22	14	17	30	15	19	21	12	14	14	12	14	15	19	17	555	40-49
30-39	33	25	28	21	34	28	23	28	14	21	16	12	20	23	18	10	12	5	9	9	6	10	18	7	430	30-39
20-29	26	29	30	30	19	12	19	17	14	9	10	6	8	9	5	10	6	6	6	6	4	7	7	5	300	20-29
19 years old or less	8	7	5	4	3	3	1		1			5		1	2	3	2		1		1		2		49	19 years old or less
total	345	321	261	236	226	181	185	148	153	135	120	106	115	109	122	111	71	65	73	84	84	76	90	92	3,509	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)

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	2022	total	Workers scale	
9 workers or less	137	124	108	102	99	87	80	80	68	56	65	60	62	53	51	52	27	27	32	46	43	38	44	41	1,582	9 workers or less	
10-29	142	143	113	101	81	63	79	47	73	59	47	40	39	47	54	46	32	33	34	30	30	30	38	40	1,441	10-29	
30-49	46	38	33	23	32	24	17	13	12	16	3	6	6	8	7	10	9	3	6	7	11	5	6	8	349	30-49	
50-99	13	14	6	7	11	6	5	7		1	5		6		8	2	3	1	1	1		3	1	3	104	50-99	
100-299	7	2	1	3	3	1	4	1		3			2	1	2	1		1					1		33	100-299	
300 workers or more																											300 workers or more
total	345	321	261	236	226	181	185	148	153	135	120	106	115	109	122	111	71	65	73	84	84	76	90	92	3,509	total	



Transition of occurred months of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)

Month	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	Month
October	36	30	26	23	21	22	25	7	13	9	17	8	6	11	12	11	9	10	4	12	7	4	11	14	348	October
January	38	33	24	17	19	18	10	18	15	14	12	14	11	11	9	8	5	3	5	4	9	4	6	12	319	January
September	31	29	24	17	23	8	11	10	19	17	13	10	7	7	15	11	3	7	7	14	7	10	5	11	316	September
February	29	31	19	30	24	18	16	16	8	14	11	10	9	8	8	8	7	7	7	6	8	2	8	9	313	February
June	21	22	16	12	15	16	16	13	9	7	6	7	9	8	9	5		3	4	6	6	6	8	9	233	June
April	26	24	16	12	8	9	15	9	3	6	5	8	4	10	5	4	5	5	3	6	6	5	6	8	208	April
March	25	23	29	19	23	21	11	10	19	10	6	7	14	8	12	8	11	5	6	5	4	7	4	6	293	March
November	41	24	26	23	23	17	24	13	10	16	13	9	13	9	10	17	7	5	9	5	10	8	9	5	346	November
July	28	29	27	26	16	15	18	12	9	12	9	6	10	16	18	14	9	3	6	11	6	5	10	5	320	July
August	23	26	17	17	16	14	13	21	14	6	6	10	8	7	14	9	9	8	8	5	8	7	9	5	280	August
December	21	31	21	19	22	9	15	9	23	16	12	4	8	6	7	8	1	3	5	10	6	10	8	5	279	December
May	26	19	16	21	16	14	11	10	11	8	10	13	16	8	3	8	5	6	9		7	8	6	3	254	May
total	345	321	261	236	226	181	185	148	153	135	120	106	115	109	122	111	71	65	73	84	84	76	90	92	3,509	total

Transition of prefectures of fatal and non-fatal accidents in 030108 sand collapse prevention civil engineering work in Japan (1999-2022)

Prefecture	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	Prefecture
Nagano	19	18	14		10		8	8	15	5	6	3	4	5	8	4	5		6	4	3	3	8	9	165	Nagano
Oita	18	6	6		6		1	4	9	6	3	4	4	5	8	4	3	2	1	7	4		5	7	113	Oita
Kochi	20	24	13		5		5	6	7	7	4	8	3	4	4	9	1	5	1	4	4	11	6	6	157	Kochi
Kumamoto	4	8	7		4		6	1	2	2	3	5	4	4	3	2	2	4	2	1	5		1	6	76	Kumamoto
Kagoshima	18	14	11		20		14	10	15	12	7	7	15	7	8	5	6	9	6	7	3	3	5	5	207	Kagoshima
Shizuoka	7	8	6		7		5	5	8	4	7	2	4	3	4	5	6	4	9	4	2	2	4	5	111	Shizuoka



Tochigi	3	3	3		2		3	3	1	1	3	2	4	2		1		1			1			1			34	Tochigi
Miyazaki	5	4	5		2		1		2		1	1	2	2	1	1		1			2		1			31	Miyazaki	
Miyagi	3				1					2	3	1	1		2	3	2				1		1	1		21	Miyagi	
Yamagata	1	4	2		2					1		1	1		1	2	2							2	1	20	Yamagata	
Kagawa	1	1	2				4			1			1	1	1	2	1		1		1		1	1		19	Kagawa	
Chiba		3					2	2	1				1			1		1			1			1		13	Chiba	
Saitama	1				4		2																1	2	1	11	Saitama	
Niigata	12	10	7		7		8	13	4	8	3	3	1	2	2	6	1	4	1	2	2		2			98	Niigata	
Yamanashi	6	8	7		6		4	5	6	11	4	1	6		5	3	3	2	3	2	2	4				88	Yamanashi	
Toyama	13	7	5		6		4	1	6	1	2	2	2	6	4	1			3	2	1		5			71	Toyama	
Aichi	9	8	4		4		5	2	2	2	3	2	1		1	2		1			1	1				48	Aichi	
Aomori	3	2	5		3		4	2	4	1	3	1	2	1	1		3	1	1	1	2	2				42	Aomori	
Kyoto	5	1	1				1	2	3				1	1			1	1	1			2	3			23	Kyoto	
Shiga	2	4	2		1		1	2		1	3	1			1					1	1		1			21	Shiga	
Saga	1	1	2				1				1	1	1		3		1			3		1				16	Saga	
Osaka	2						1		1		1				1				1	1						8	Osaka	
Ibaraki	2	1	1								1				1		1									7	Ibaraki	
Okinawa							1							2	1											4	Okinawa	
total	345	321	261	236	226	181	185	148	153	135	120	106	115	109	122	111	71	65	73	84	84	76	90	92	3,509	total		

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