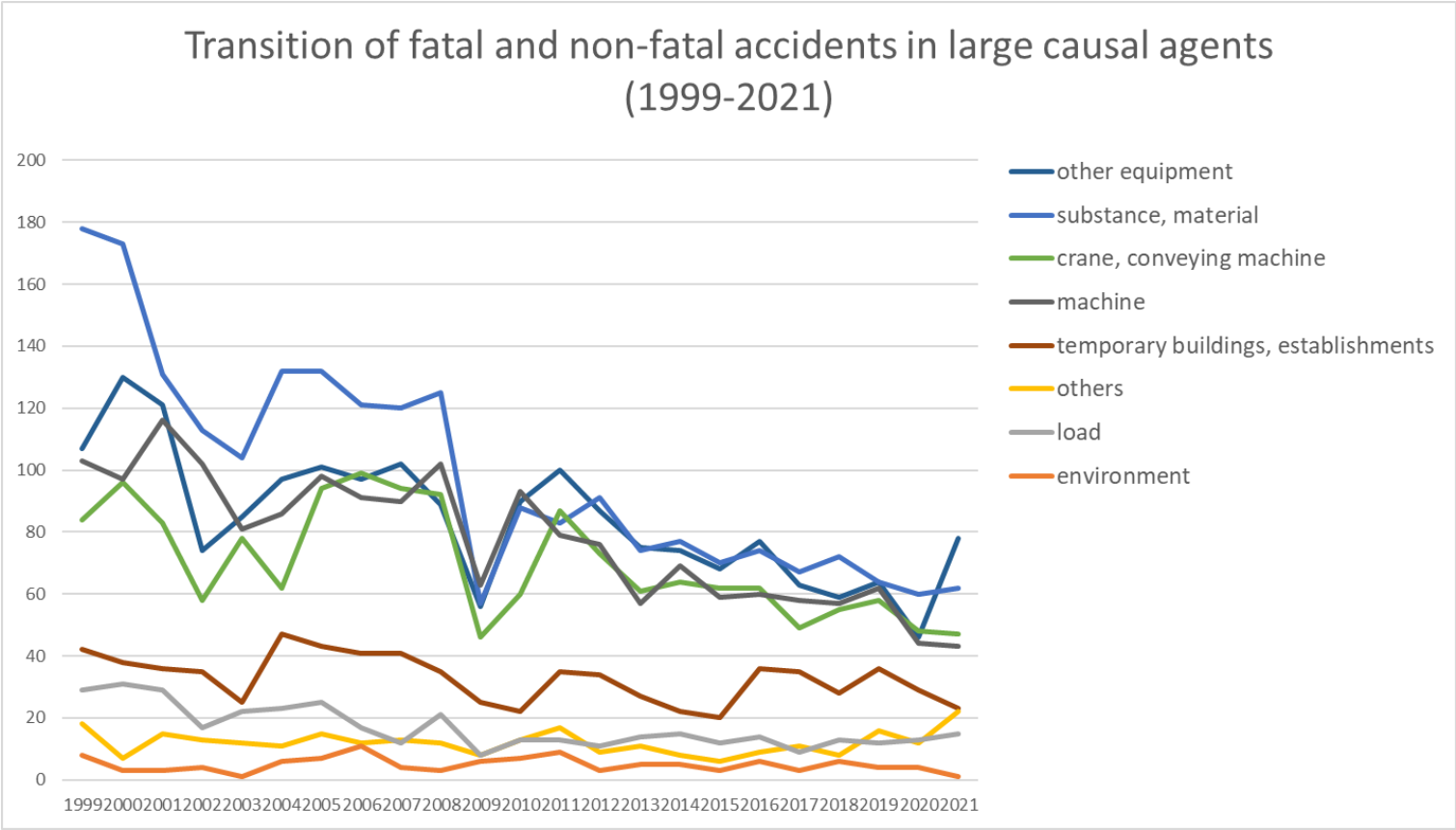
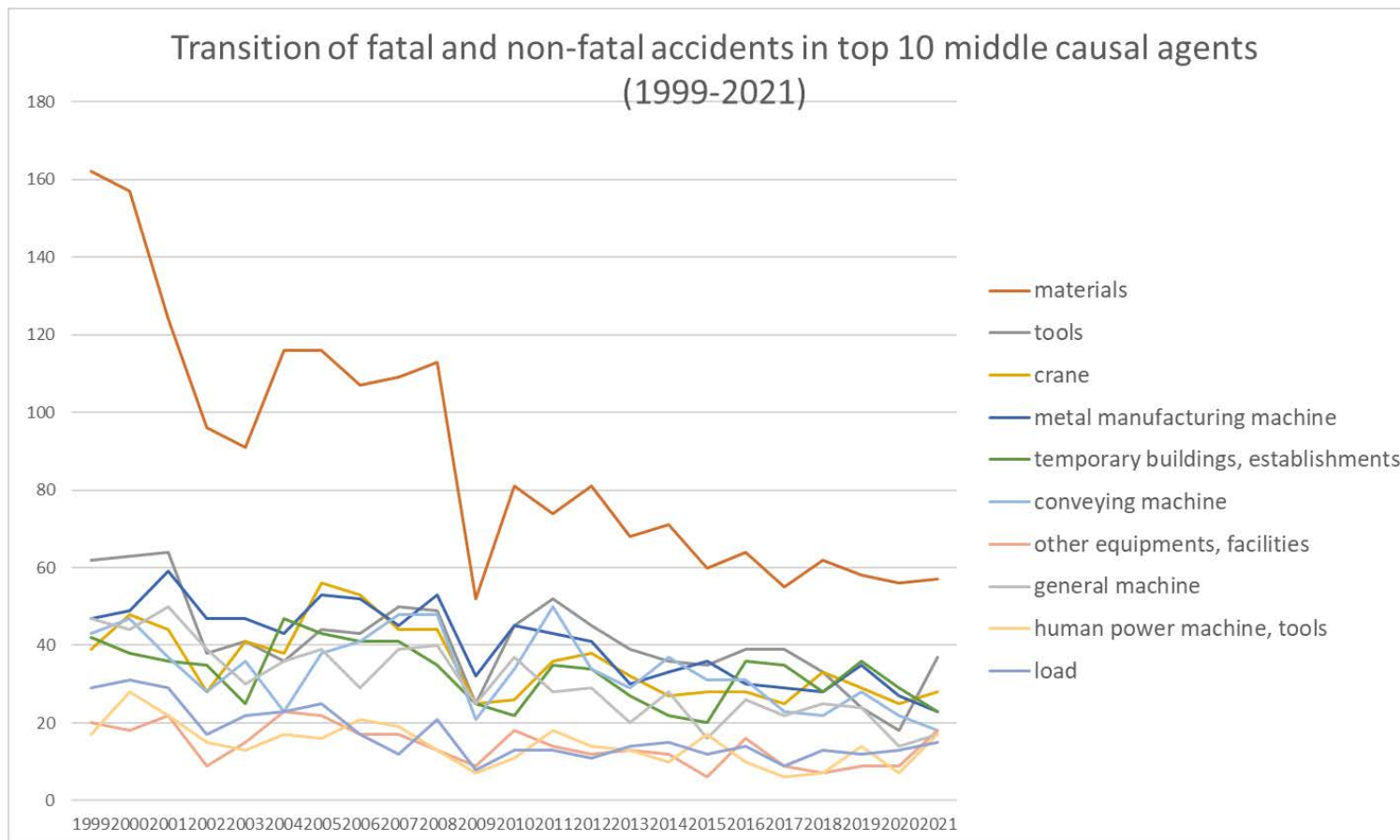


Transition of fatal and non-fatal accidents in each element like as causal agents, type of accidents, etc. in code no. 011002 casting products (1999-2021)

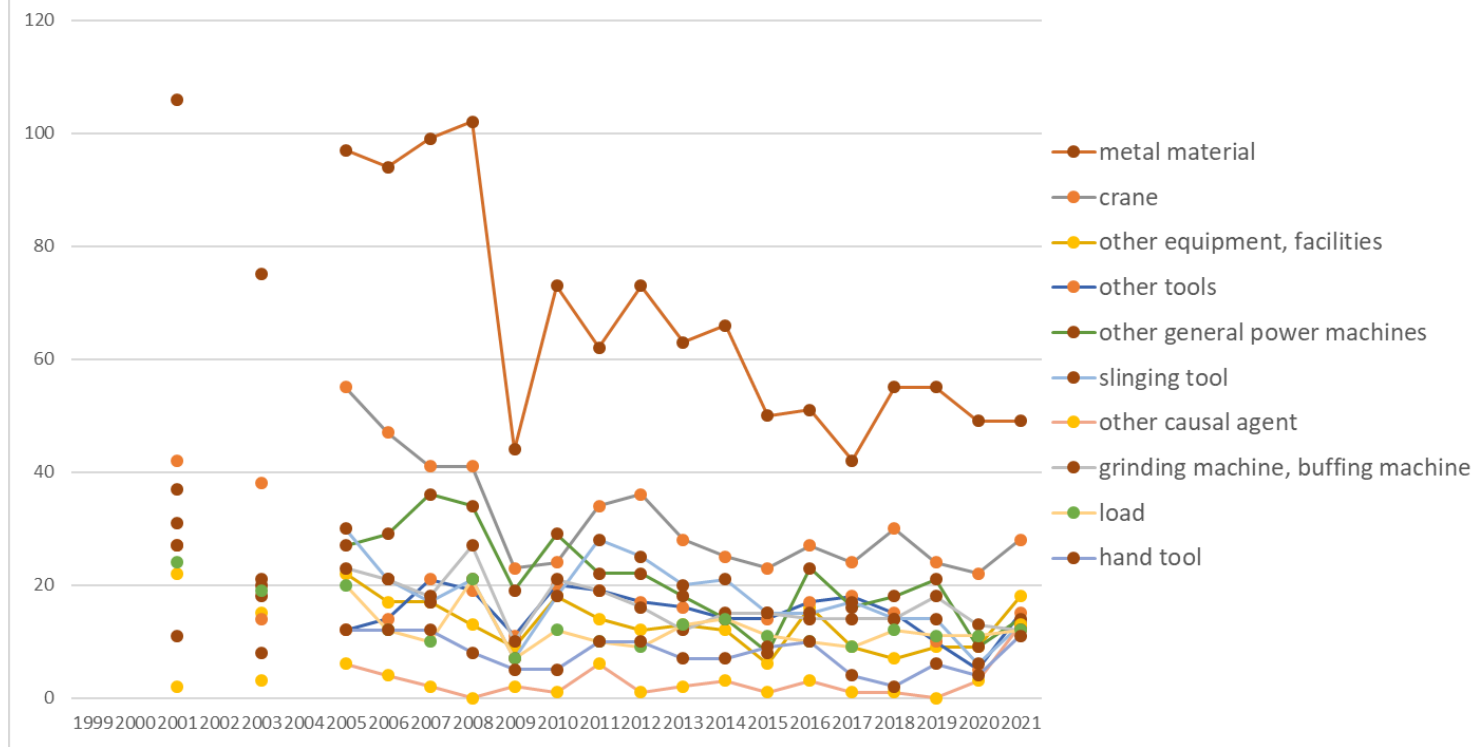


Transition of fatal and non-fatal accidents in large causal agents in code no. 011002 casting products (1999-2021)

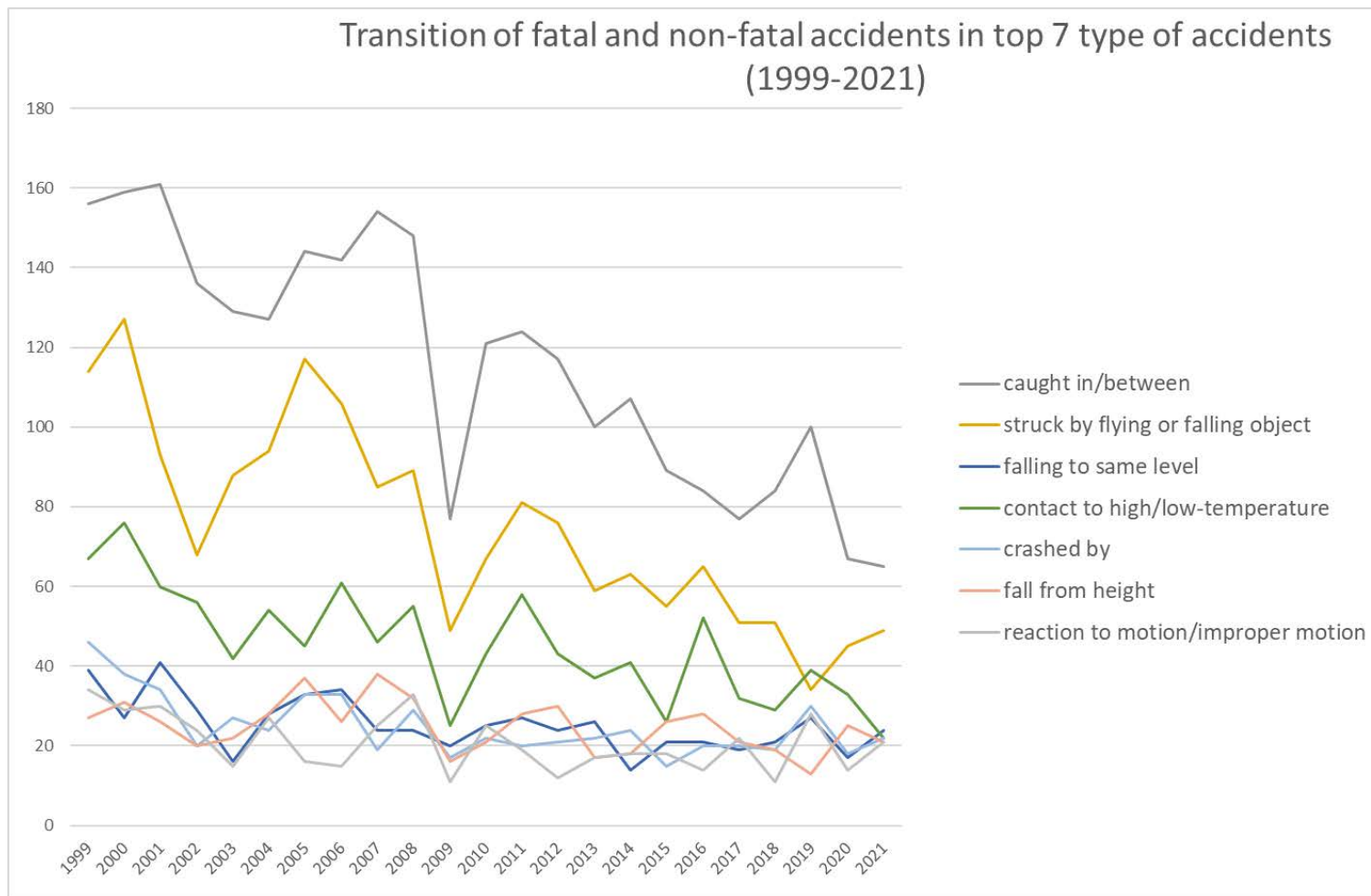


Transition of fatal and non-fatal accidents in middle causal agents in code no. 011002 casting products (1999-2021)

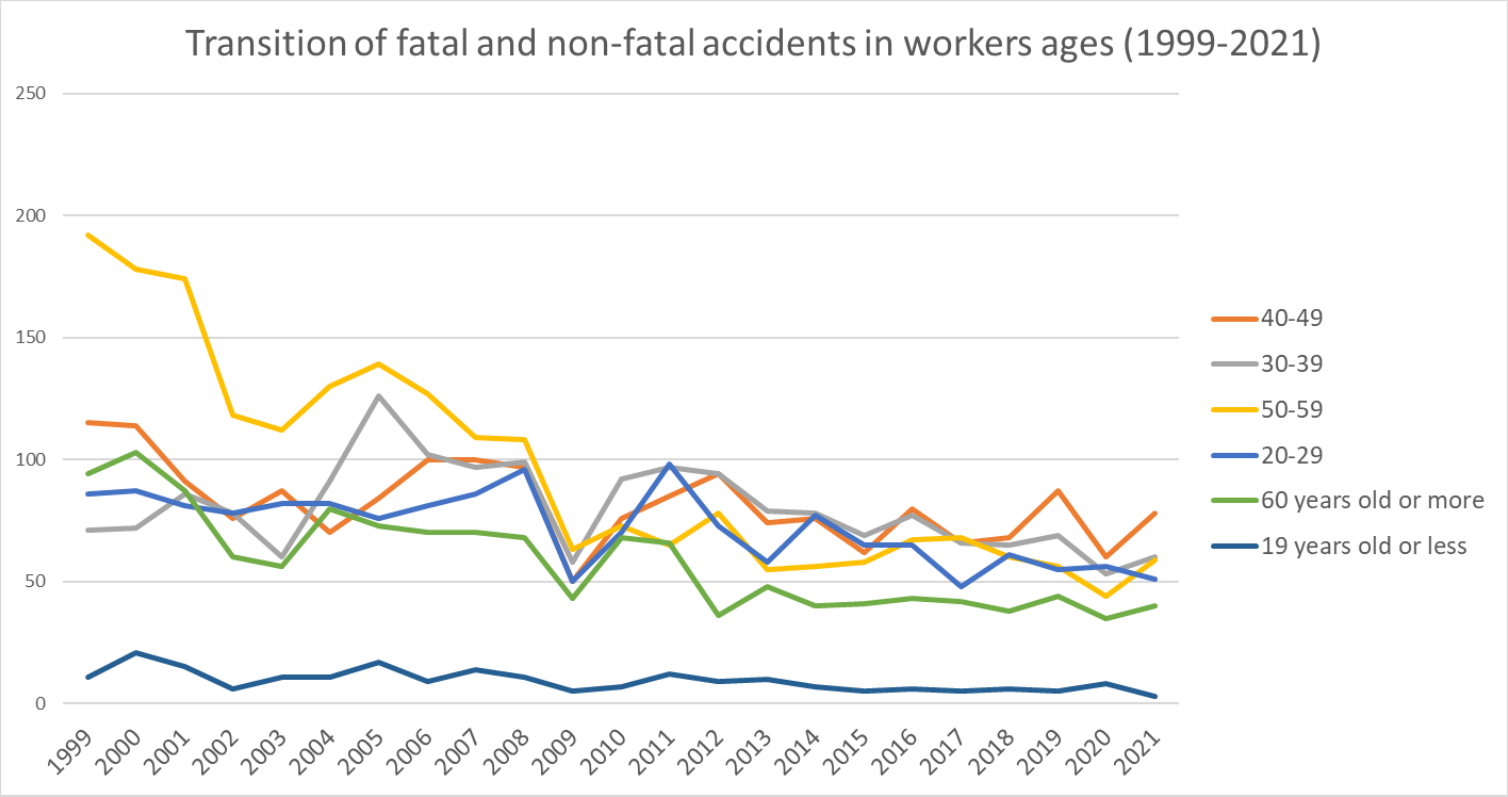
Transition of fatal and non-fatal accidents in top 10 small causal agents (1999-2021)



Transition of fatal and non-fatal accidents in small causal agents in code no. 011002 casting products (1999-2021)

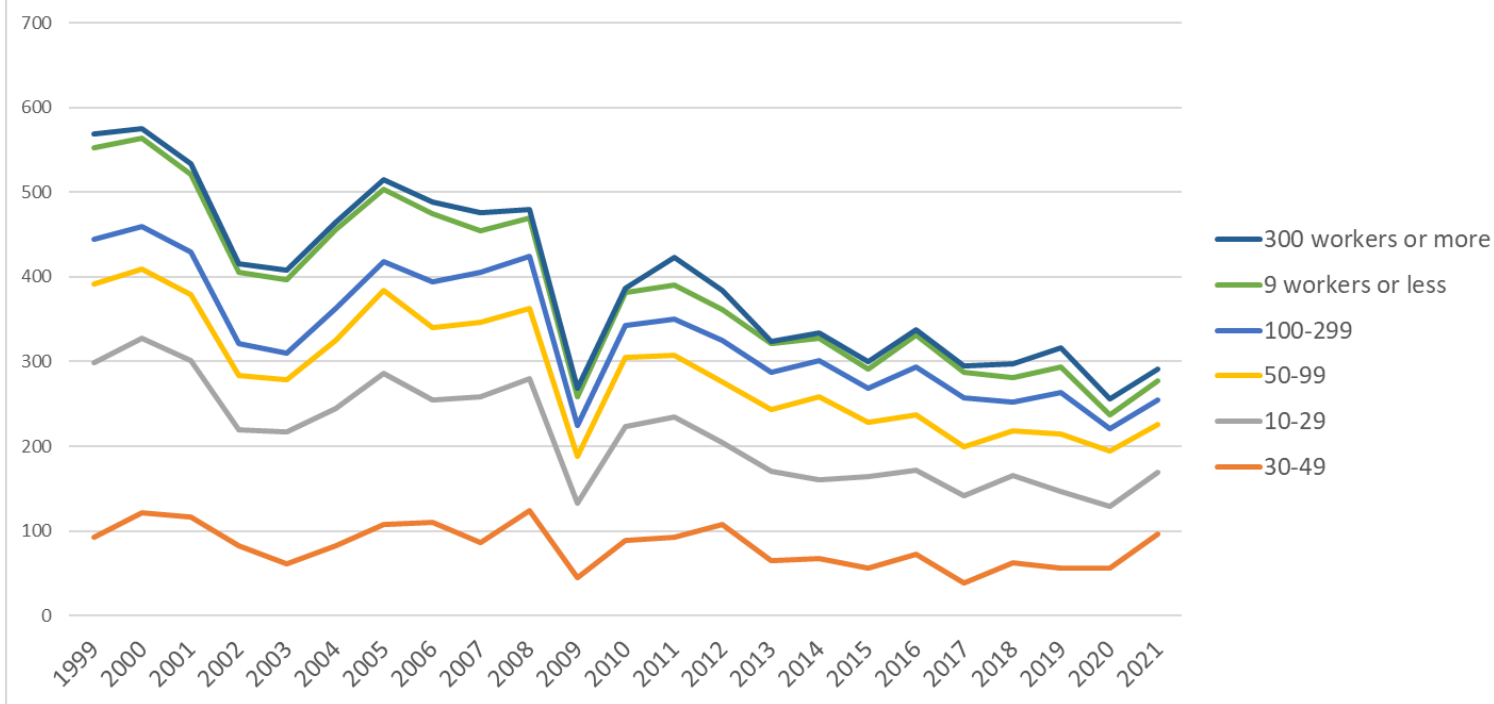


Transition of fatal and non-fatal accidents in type of accidents in code no. 011002 casting products (1999-2021)

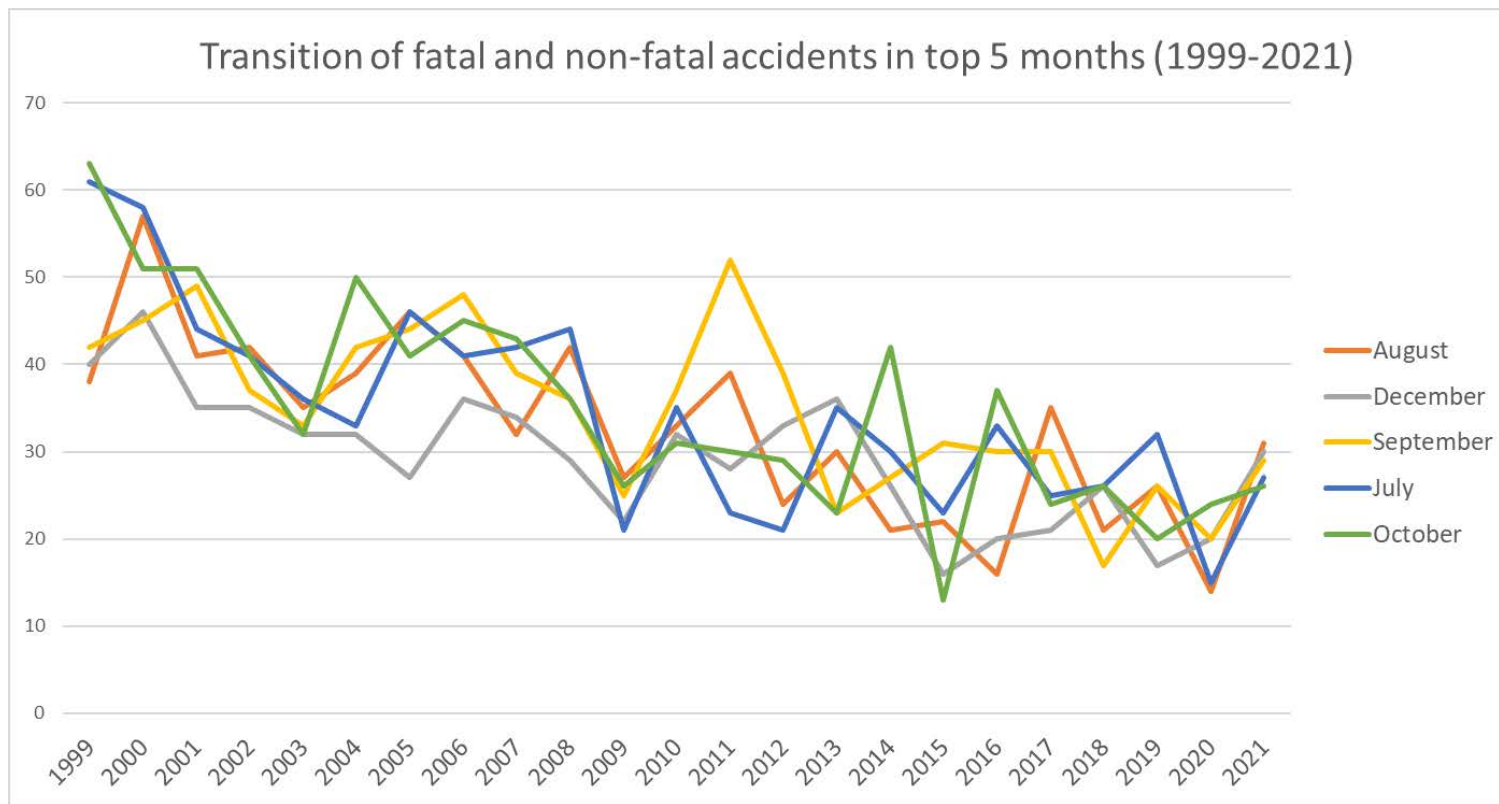


Transition of fatal and non-fatal accidents in workers ages in code no. 011002 casting products (1999-2021)

Transition of fatal and non-fatal accidents in workers scales (1999-2021)



Transition of fatal and non-fatal accidents in workers scales in code no. 011002 casting products (1999-2021)



Transition of fatal and non-fatal accidents in months in code no. 011002 casting products (1999-2021)

Transition of fatal and non-fatal accidents in top 7 prefectures (1999-2021)

Prefecture	1999	2000	2001	2003	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Aichi (Fatal %)	87	77	83	61	76	64	73	64	40	63	67	61	46	40	38	45	39	43	36	36	57
Saitama (Non-fatal %)	62	85	49	40	48	36	44	41	21	32	39	22	28	31	27	24	25	25	22	26	25
Mie (Fatal %)	32	36	40	32	19	23	26	24	17	17	21	23	18	14	13	15	15	16	13	18	
Shizuoka (Non-fatal %)	25	30	27	20	22	27	24	23	7	17	34	22	19	22	22	24	18	20	15	15	
Osaka (Fatal %)	51	36	34	33	27	31	26	22	17	10	17	17	12	14	24	24	15	15	19	15	
Niigata (Non-fatal %)	13	20	12	6	22	27	24	21	8	14	22	8	8	9	18	11	14	14	9	15	
Fukuoka (Fatal %)	18	24	17	12	12	11	10	19	9	14	21	17	8	12	11	19	9	7	16	5	

Transition of fatal and non-fatal accidents in prefectures in code no. 011002 casting products (1999-2021)

[illegible]

2	machine	84	96	83	58	78	62	94	99	94	92	46	60	87	73	61	64	62	62	49	55	58	48	47	1,612	conveying machine
1	machine	103	97	116	102	81	86	98	91	90	102	63	93	79	76	57	69	59	60	58	57	62	44	43	1,786	machine
4	temporary buildings, establishments	42	38	36	35	25	47	43	41	41	35	25	22	35	34	27	22	20	36	35	28	36	29	23	755	temporary buildings, establishments
9	others	18	7	15	13	12	11	15	12	13	12	8	13	17	9	11	8	6	9	11	8	16	12	22	278	others
6	load	29	31	29	17	22	23	25	17	12	21	8	13	13	11	14	15	12	14	9	13	12	13	15	388	load
7	environment	8	3	3	4	1	6	7	11	4	3	6	7	9	3	5	5	3	6	3	6	4	4	1	112	environment
	total	569	575	534	416	408	464	515	489	476	479	269	386	423	384	324	334	300	338	295	298	316	256	291	9,139	total

Transition of fatal and non-fatal accidents in middle causal agents in code no. 011002 casting products (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
52	materials	162	157	124	96	91	116	116	107	109	113	52	81	74	81	68	71	60	64	55	62	58	56	57	2,030	materials
37	tools	62	63	64	38	41	36	44	43	50	49	25	45	52	45	39	36	35	39	39	33	24	18	37	957	tools
21	crane	39	48	44	28	41	38	56	53	44	44	25	26	36	38	32	27	28	28	25	33	29	25	28	815	crane
15	metal manufacturing machine	47	49	59	47	47	43	53	52	45	53	32	45	43	41	30	33	36	30	29	28	35	27	23	927	metal manufacturing machine
41	temporary buildings, establishments	42	38	36	35	25	47	43	41	41	35	25	22	35	34	27	22	20	36	35	28	36	29	23	755	temporary buildings, establishments
22	conveying machine	43	47	37	28	36	23	38	41	48	48	21	34	50	34	29	37	31	31	23	22	28	22	18	769	conveying machine

23	vehicle	2	1	2	2	1	1		5	2				1	1			3	3	1		1	1	1	28	vehicle
35	electric equipment		1	1		1		3	1	1		1	2			1	2	1	1		1				17	electric equipment
99	unclassifiable		1	1		1								3	2	1		1			1				11	unclassifiable
11	engine		1	1					1						1	1				1					6	engine
14	construction machine			2	1				3																6	construction machine
31	pressure vessel		1																		2				3	pressure vessel
17	mobile silviculture machine																									mobile silviculture machine
32	chemical facilities																									chemical facilities
	total	569	575	534	416	408	464	515	489	476	479	269	386	423	384	324	334	300	338	295	298	316	256	291	9,139	total

Transition of fatal and non-fatal accidents in small causal agents in code no. 011002 casting products (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
521	metal material			106		75		97	94	99	102	44	73	62	73	63	66	50	51	42	55	55	49	49	1,305	metal material
211	crane			42		38		55	47	41	41	23	24	34	36	28	25	23	27	24	30	24	22	28	612	crane
391	other equipment, facilities			22		15		22	17	17	13	9	18	14	12	13	12	6	16	9	7	9	9	18	258	other equipment, facilities
379	other tools			27		14		12	14	21	19	11	20	19	17	16	14	14	17	18	15	10	5	15	298	other tools
169	other general power machines			37		21		27	29	36	34	19	29	22	22	18	14	8	23	16	18	21	9	14	417	other general power machines
372	slinging tool			31		20		30	21	17	21	7	18	28	25	20	21	15	15	17	14	14	6	13	353	slinging tool

911	other causal agent			2		3		6	4	2		2	1	6	1	2	3	1	3	1	1		3	13	54	other causal agent
153	grinding machine, buffing machine			27		18		23	21	18	27	10	21	19	16	12	15	15	14	14	14	18	13	12	327	grinding machine, buffing machine
611	load			24		19		20	12	10	21	7	12	10	9	13	14	11	10	9	12	11	11	12	247	load
364	hand tool			11		8		12	12	12	8	5	5	10	10	7	7	9	10	4	2	6	4	11	153	hand tool
224	conveyor			17		17		25	27	20	29	10	19	27	19	22	21	16	19	10	10	11	12	10	341	conveyor
417	passage			18		4		14	18	14	9	15	6	14	7	10	10	7	14	16	11	17	11	9	224	passage
921	no causal agent			12		8		9	8	11	12	6	12	8	6	8	5	4	6	10	6	16	9	9	165	no causal agent
371	ladder			6		7		2	8	12	9	7	7	5	3	3	1	6	7	4	4		7	9	107	ladder
159	other metal manufacturing machines			17		19		18	19	15	20	14	16	14	14	11	12	11	11	11	7	11	9	8	257	other metal manufacturing machines
222	forklift			12		9		8	6	20	11	3	9	12	8	3	8	7	7	7	7	10	6	7	160	forklift
362	human power hauling equipment			7		3		3	8	6	3	2	5	6	4	6	3	5		2	5	6	2	6	82	human power hauling equipment
341	kiln, caldron			11		13		14	12	11	10	8	12	15	12	6	11	6	9	9	8	14	11	5	197	kiln, caldron
416	working platform, boot board			4		3		7	7	7	7	3	6	9	8	5	3	4	5	3	5	5	3	4	98	working platform, boot board
419	other temporary buildings, establishments			2		3		8	5	2	3	1	3	4	5	5	4		4	4	5	4	3	4	69	other temporary buildings, establishments
162	mixer, grinder			10		7		10		2	5	5	8	6	5	2	10	7	3	4	4	3	4	3	98	mixer, grinder
529	other materials			8		6		8	8	7	4	3	5	9	3	3	3	1	6	6	5	1	4	3	93	other materials
512	inflammable			3		5		9	7	4	8	1	5	4	3	3	2	4	5	3	2	5	2	3	78	inflammable

[illegible]

415	crossbeam, principal rafter					2		3	1	3		2		1		1	1	1	1	3	1			1	21	crossbeam, principal rafter
231	cars, bus, motorcycle			1					5	2				1				3	3	1		1	1	1	19	cars, bus, motorcycle
155	forging pressure hammer			1		2		1	1	2		1	1	1	1					1				1	13	forging pressure hammer
332	arc welding equipment			1		1		1		1		1		1					1					1	8	arc welding equipment
229	other powered conveying machines			2		6		3	5	5	6	4	3	6	4	3	2	2	1	3	2	5	3		65	other powered conveying machines
151	lathe			6		6		3	6	2	3	4	2	3	2	2	1	5	2	2	5	1	2		57	lathe
219	other powered crane			2		1		1	6	3	2	2	2	1		2		4	1	1	3	3	1		35	other powered crane
719	other environments			2				3	2	1		2	2	5	1	1	1	2	2	1	1				26	other environments
361	human power cranes			2		2		1	1		1		1	2				3				2			15	human power cranes
164	injection molding machine			2		1		2		1		1			1		1			2	3				14	injection molding machine
223	railway equipment			2		1		1	1	2	1	1					3	2							14	railway equipment
214	elevator, lift					2					1			1	1	2	2	1				1	2		13	elevator, lift
331	gas welding equipment								1	1	1	2	2			1	3	1				1			13	gas welding equipment
349	other kiln, caldron					1		1	1	1	1	2				1		2	1		1		1		13	other kiln, caldron
359	other electrical equipment			1		1		1				1	1				2	1	1		1				10	other electrical equipment

999	unclassifiable			1		1							3	2	1		1			1				10	unclassifiable
342	industrial dryer								1	1	1			3	1									7	industrial dryer
513	inflammable gas						1				1				1	1		1			1			6	inflammable gas
111	engine			1				1						1	1			1						5	engine
161	centrifugal machine													1		2	1					1		5	centrifugal machine
339	other welding equipment							1		1				1							2			5	other welding equipment
363	human power machine			2					1	1												1		5	human power machine
411	scaffolding						1						1				1	1			1			5	scaffolding
139	other woodworking machines			1		1										2								4	other woodworking machines
351	transmission						2	1							1									4	transmission
511	explosive substance					1		1			2													4	explosive substance
239	other vehicles			1		1							1											3	other vehicles
132	band sawing machine									1			1											2	band sawing machine
133	wood planer machine						1						1											2	wood planer machine
141	leveling, transporting or loading machine			1					1															2	leveling, transporting or loading machine
156	shearing machine									2														2	shearing machine
163	roll machine (except printingroll)					1					1													2	roll machine (except printingroll)

[illegible]

[illegible]

218	simple skyline yarding equipment																										simple skyline yarding equipment
226	straddle carrier																										straddle carrier
227	rough terrain hauler																										rough terrain hauler
232	railway vehicle																										railway vehicle
311	boiler																										boiler
312	pressure vessel																										pressure vessel
321	chemical facilities																										chemical facilities
515	radiation																										radiation
	total			534		408		515	489	476	479	269	386	423	384	324	334	300	338	295	298	316	256	291	7,115		total

Transition of fatal and non-fatal accidents in type of accidents in code no. 011002 casting products (1999-2021)

[illegible]

19	motion/improper motion	34	29	30	24	15	27	16	15	25	33	11	25	19	12	17	18	18	14	22	11	28	14	21	478	motion/improper motion
08	cut	43	27	39	26	23	26	31	19	25	30	26	21	26	17	17	19	12	19	17	19	14	10	19	525	cut
05	collapse	19	24	24	13	19	20	22	21	22	16	14	19	18	16	13	17	15	12	12	17	14	8	18	393	collapse
03	crash	14	25	18	14	18	26	21	17	28	14	7	11	15	16	10	7	11	12	15	16	11	9	13	348	crash
90	others			3	1		1	1			1	2	1	2	1	2	1	1			3		3	13	36	others
16	fire	2			1	2	2	5	2	2	3	1	4			1	1	2	1	2		1	2	2	36	fire
12	contact to harmful substance		1	1	2	5	5	7	4	3		2	3	2	4	1	2	2	6	1	5		1	1	58	contact to harmful substance
17	traffic accident (public road)	1		1	3				3				1		1			4	3	1				1	19	traffic accident (public road)
14	explosion	2	4		1	1	2		2	3	4		2		4		1			2		4	4		36	explosion
09	injury to the sole of the foot	3	2	1	1	1		1		2		1		1	2	1		2		1	2				21	injury to the sole of the foot
13	electric shock	1	1	2				2	2		1	1				1	1		1		1	1			15	electric shock
99	unclassifiable	1	2						1					2				1			1				8	unclassifiable
15	burst		1		1				1											1					4	burst
18	traffic accident (others)		1																	1					2	traffic accident (others)
10	drown																									drown
	total	569	575	534	416	408	464	515	489	476	479	269	386	423	384	324	334	300	338	295	298	316	256	291	9,139	total

[illegible]

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	115	114	91	76	87	70	84	100	100	97	50	76	85	94	74	76	62	80	66	68	87	60	78	1,890	40-49
3	30-39	71	72	86	78	60	91	126	102	97	99	58	92	97	94	79	78	69	77	66	65	69	53	60	1,839	30-39
5	50-59	192	178	174	118	112	130	139	127	109	108	63	73	65	78	55	56	58	67	68	60	56	44	59	2,189	50-59
2	20-29	86	87	81	78	82	82	76	81	86	96	50	70	98	73	58	77	65	65	48	61	55	56	51	1,662	20-29
6	60 years old or more	94	103	87	60	56	80	73	70	70	68	43	68	66	36	48	40	41	43	42	38	44	35	40	1,345	60 years old or more
1	19 years old or less	11	21	15	6	11	11	17	9	14	11	5	7	12	9	10	7	5	6	5	6	5	8	3	214	19 years old or less
	total	569	575	534	416	408	464	515	489	476	479	269	386	423	384	324	334	300	338	295	298	316	256	291	9,139	total

Transition of fatal and non-fatal accidents in workers scales in code no. 011002 casting products (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
3	30-49	92	122	116	83	61	82	107	110	86	124	45	89	93	108	65	68	56	73	39	62	56	56	96	1,889	30-49
2	10-29	207	206	185	136	156	162	179	145	172	156	88	134	142	97	106	93	108	99	103	103	91	73	73	3,014	10-29
4	50-99	93	81	78	64	61	81	98	85	89	83	55	82	73	71	72	97	64	65	57	53	68	65	57	1,692	50-99
5	100-299	52	51	50	38	32	38	34	54	59	61	36	37	42	49	44	43	40	57	58	34	49	27	29	1,014	100-299
1	9 workers or less	109	104	92	85	87	93	86	80	48	45	34	39	41	37	34	27	23	37	30	29	30	16	22	1,228	9 workers or less
6	300 workers or more	16	11	13	10	11	8	11	15	22	10	11	5	32	22	3	6	9	7	8	17	22	19	14	302	300 workers or more
	total	569	575	534	416	408	464	515	489	476	479	269	386	423	384	324	334	300	338	295	298	316	256	291	9,139	total

Transition of fatal and non-fatal accidents in months in code no. 011002 casting products (1999-2021)

[illegible]

12	December	40	46	35	35	32	32	27	36	34	29	22	32	28	33	36	26	16	20	21	26	17	20	30	673	December
9	September	42	45	49	37	33	42	44	48	39	36	25	37	52	39	23	27	31	30	30	17	26	20	29	801	September
7	July	61	58	44	41	36	33	46	41	42	44	21	35	23	21	35	30	23	33	25	26	32	15	27	792	July
10	October	63	51	51	41	32	50	41	45	43	36	26	31	30	29	23	42	13	37	24	26	20	24	26	804	October
11	November	48	45	27	36	33	39	45	41	48	25	19	29	39	33	21	24	30	34	20	20	21	24	25	726	November
4	April	51	35	58	30	43	38	42	36	42	38	22	29	33	30	30	15	29	34	28	30	32	31	24	780	April
6	June	54	58	39	34	39	42	47	39	37	46	19	49	40	42	33	25	26	14	20	24	36	17	22	802	June
1	January	41	48	40	34	28	34	37	41	41	40	28	28	35	27	24	36	26	32	18	32	25	30	22	747	January
5	May	31	45	38	23	31	40	40	35	38	46	11	28	37	34	25	27	29	31	22	34	22	16	21	704	May
3	March	47	41	53	36	37	47	41	44	35	50	23	32	33	34	19	30	33	31	29	22	31	26	19	793	March
2	February	53	46	59	27	29	28	59	42	45	47	26	23	34	38	25	31	22	26	23	20	28	19	15	765	February
	total	569	575	534	416	408	464	515	489	476	479	269	386	423	384	324	334	300	338	295	298	316	256	291	9,139	total

Transition of fatal and non-fatal accidents in prefectures in code no. 011002 casting products (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
23	Aichi	87	77	83		61		76	64	73	64	40	63	67	61	46	40	38	45	39	43	36	36	57	1,196	Aichi
11	Saitama	62	85	49		40		48	36	44	41	21	32	39	22	28	31	27	20	25	25	22	26	25	748	Saitama
24	Mie	32	36	40		32		19	23	26	23	16	17	20	23	18	14	13	15	15	16	13	11	18	440	Mie
22	Shizuoka	25	30	27		20		22	24	25	23	8	15	34	22	19	22	22	18	18	20	15	13	16	438	Shizuoka
27	Osaka	51	36	34		33		27	31	26	21	17	10	17	17	12	14	17	24	16	15	20	12	15	465	Osaka
15	Niigata	13	20	12		6		21	27	24	21	7	17	22	8	8	9	18	11	14	14	16	9	14	311	Niigata
40	Fukuoka	18	24	17		12		12	11	10	19	9	14	21	16	8	12	11	19	9	7	16	5	13	283	Fukuoka
34	Hiroshima	22	20	16		25		26	22	18	11	2	11	14	10	9	12	6	13	9	16	17	12	11	302	Hiroshima
32	Shimane	14	11	19		13		8	27	16	17	7	15	14	10	9	13	4	10	14	12	6	14	11	264	Shimane

[illegible]

10	Gunma	13	5	8		4		8	4	4	7	10	8	7	9	13	8	3	5	1	4	8	3	1	133	Gunma
8	Ibaraki	6	4	12		3		5	5	9	7	2	11	4	8	5	7	1		8	3	1	3	1	105	Ibaraki
26	Kyoto	9	4	6		4		8	3	1	6	1	6	4	1	1	4	3		1	2		2	1	67	Kyoto
42	Nagasaki	4	2	6		2		5	1	2	1	3	1		4	4	6	5	4	2	1	4		1	58	Nagasaki
41	Saga	3	2	1		2		6	3	6	1			1	2	4	1	2		3		3	4	1	45	Saga
30	Wakayama		3	2				3	2	6	3	1	2	1	1	2	2	1		1	2	3	5	1	41	Wakayama
31	Tottori	1	2					3	2	3	1	1	1	2	1	3	2	2	3	1	2	1	1	1	33	Tottori
2	Aomori		3	1		1		4	1	2		2	2	2	4	1	1	1		2				1	28	Aomori
36	Tokushima								1	2				1	1		3	1	1					1	11	Tokushima
35	Yamaguchi	7	6	2		4		6	2	2	4	2	2		1	2		2	6		1	4	5		58	Yamaguchi
19	Yamanashi	3	1	1		1		1	2	3	8	1	2	6		4	2	1	4		2	4	2		48	Yamanashi
18	Fukui	3	3	4		4		2	1	2		1	2	2	1		1	5	3	2		2			38	Fukui
44	Oita	5	1			2		4	1	1	3	6		1	3		1		1			1			30	Oita
45	Miyazaki	3																			1				4	Miyazaki
46	Kagoshima	1	3																						4	Kagoshima
	total	569	575	534		408		515	489	476	479	269	386	423	384	324	334	300	338	295	298	316	256	291	8,259	total

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

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