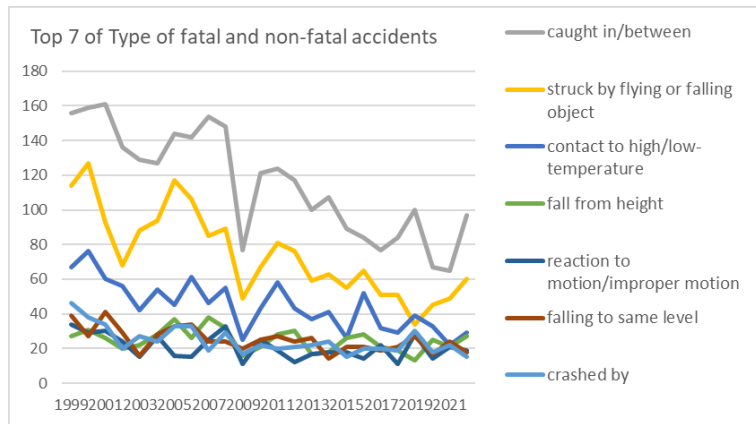
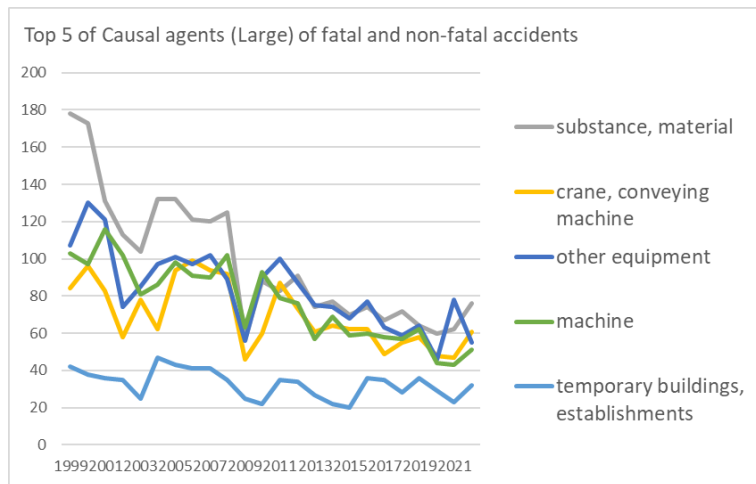


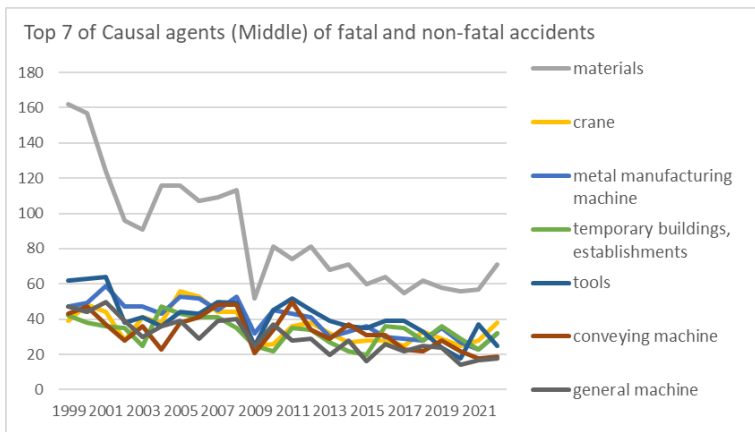
Transition of fatal and non-fatal accidents in 011002 casting products in Japan (1999-2022)



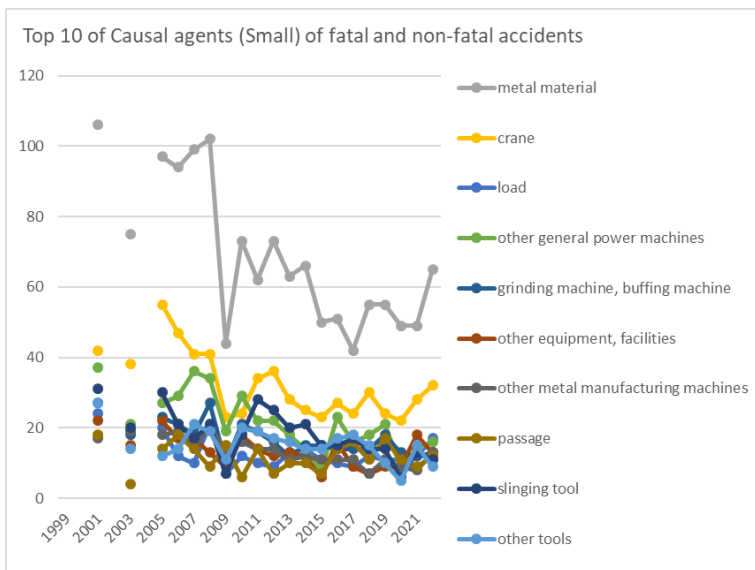
Transition of Top 7 of Type of fatal and non-fatal accidents in 011002 casting products in Japan (1999-2022)



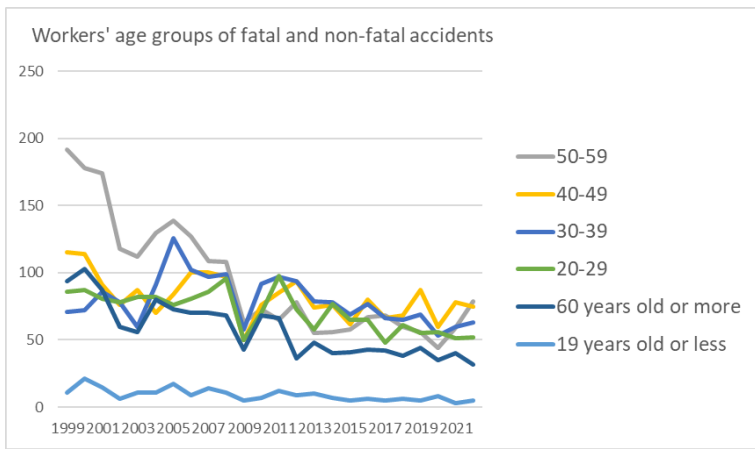
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 011002 casting products in Japan (1999-2022)



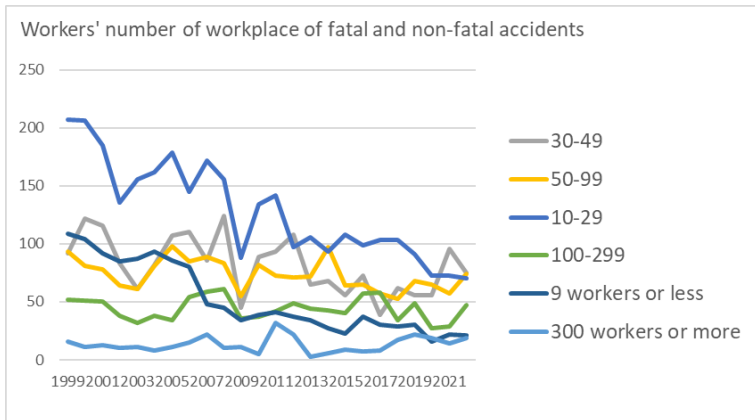
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 011002 casting products in Japan (1999-2022)



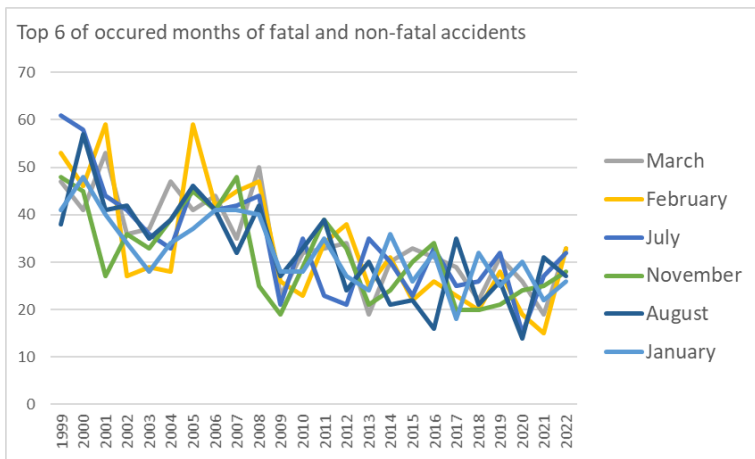
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 011002 casting products in Japan (1999-2022)



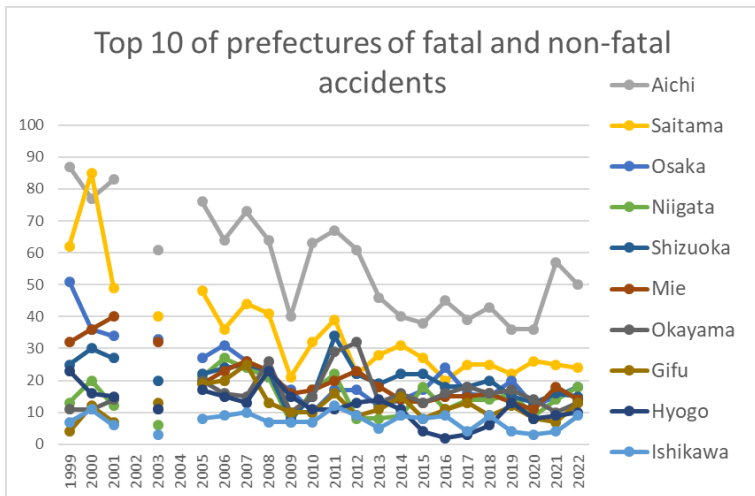
Transition of workers' age groups of fatal and non-fatal accidents in 011002 casting products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 011002 casting products in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 011002 casting products in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 011002 casting products in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 011002 casting products 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
caught in/between	156	159	161	136	129	127	144	142	154	148	77	121	124	117	100	107	89	84	77	84	100	67	65	97	2,765	caught in/between
struck by flying or	114	127	93	68	88	94	117	106	85	89	49	67	81	76	59	63	55	65	51	51	34	45	49	60	1,786	struck by flying

falling object																														or falling object
contact to high/low-temperature	67	76	60	56	42	54	45	61	46	55	25	43	58	43	37	41	26	52	32	29	39	33	22	29	1,071	contact to high/low-temperature				
fall from height	27	31	26	20	22	28	37	26	38	32	16	21	28	30	17	18	26	28	21	19	13	25	21	27	597	fall from height				
reaction to 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	19	497	reaction to motion/improper motion				
falling to same level	39	27	41	29	16	28	33	34	24	24	20	25	27	24	26	14	21	21	19	21	27	17	24	18	599	falling to same level				
crashed by	46	38	34	20	27	24	33	33	19	29	17	22	20	21	22	24	15	20	20	19	30	18	22	15	588	crashed by				
crash	14	25	18	14	18	26	21	17	28	14	7	11	15	16	10	7	11	12	15	16	11	9	13	13	361	crash				
cut	43	27	39	26	23	26	31	19	25	30	26	21	26	17	17	19	12	19	17	19	14	10	19	12	537	cut				
collapse	19	24	24	13	19	20	22	21	22	16	14	19	18	16	13	17	15	12	12	17	14	8	18	12	405	collapse				
traffic accident (public road)	1		1	3				3				1		1			4	3	1				1	4	23	traffic accident (public road)				
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				
explosion	2	4		1	1	2		2	3	4		2		4		1			2		4	4			36	explosion				
fire	2			1	2	2	5	2	2	3	1	4			1	1	2	1	2		1	2	2		36	fire				
others			3	1		1	1			1	2	1	2	1	2	1	1			3		3	13		36	others				
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				
electric shock	1	1	2				2	2		1	1				1	1		1		1	1				15	electric shock				

unclassifiable	1	2						1					2				1		1					8	unclassifiable	
burst		1		1				1										1						4	burst	
traffic accident (others)		1																1						2	traffic accident (others)	
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	306	9,445	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 011002 casting products 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
substance, material	178	173	131	113	104	132	132	121	120	125	57	88	83	91	74	77	70	74	67	72	64	60	62	76	2,344	substance, material
crane, conveying machine	84	96	83	58	78	62	94	99	94	92	46	60	87	73	61	64	62	62	49	55	58	48	47	61	1,673	crane, conveying machine
other equipment	107	130	121	74	85	97	101	97	102	89	56	90	100	87	75	74	68	77	63	59	64	46	78	55	1,995	other equipment
machine	103	97	116	102	81	86	98	91	90	102	63	93	79	76	57	69	59	60	58	57	62	44	43	51	1,837	machine
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	32	787	temporary buildings, establishments
load	29	31	29	17	22	23	25	17	12	21	8	13	13	11	14	15	12	14	9	13	12	13	15	17	405	load
others	18	7	15	13	12	11	15	12	13	12	8	13	17	9	11	8	6	9	11	8	16	12	22	8	286	others
environment	8	3	3	4	1	6	7	11	4	3	6	7	9	3	5	5	3	6	3	6	4	4	1	6	118	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	306	9,445	total

stairs, landing stage			8		6		4	4	8	7	3	2	1	6	4	1	3	5	7	3	3	3	1	7	86	stairs, landing stage
no causal agent			12		8		9	8	11	12	6	12	8	6	8	5	4	6	10	6	16	9	9	6	171	no causal agent
high/cold temperature environment			1		1		3	9	2	3	3	5	2	2	4	3	1	4	2	4	4	4	1	6	64	high/cold temperature environment
forklift			12		9		8	6	20	11	3	9	12	8	3	8	7	7	7	7	10	6	7	5	165	forklift
ladder			6		7		2	8	12	9	7	7	5	3	3	1	6	7	4	4		7	9	5	112	ladder
other powered conveying machines			2		6		3	5	5	6	4	3	6	4	3	2	2	1	3	2	5	3		5	70	other powered conveying machines
hand tool			11		8		12	12	12	8	5	5	10	10	7	7	9	10	4	2	6	4	11	4	157	hand tool
working platform, boot board			4		3		7	7	7	7	3	6	9	8	5	3	4	5	3	5	5	3	4	4	102	working platform, boot board
human power hauling equipment			7		3		3	8	6	3	2	5	6	4	6	3	5		2	5	6	2	6	4	86	human power hauling equipment
other powered crane			2		1		1	6	3	2	2	2	1		2		4	1	1	3	3	1		4	39	other powered crane
cars, bus, motorcycle			1					5	2					1			3	3	1		1	1	1	4	23	cars, bus, motorcycle
inflammable substance			3		5		9	7	4	8	1	5	4	3	3	2	4	5	3	2	5	2	3	3	81	inflammable substance
other temporary buildings, establishments			2		3		8	5	2	3	1	3	4	5	5	4		4	4	5	4	3	4	3	72	other temporary buildings, establishments
stone, sand, substance			7		6		9	3	3	5	3	2	2	4	2	2	6	2	5	1			3	3	68	stone, sand, substance

forging pressure hammer			1	2		1	1	2		1	1	1	1					1				1	3	16	forging pressure hammer
mixer, grinder			10	7		10		2	5	5	8	6	5	2	10	7	3	4	4	3	4	3	2	100	mixer, grinder
building, establishment			3	7		3	4	5	5	1	5	4	6	2	3	3	2	2	3	5	7	3	2	75	building, establishment
other hazards, harmful substances			4	6		2	4	4	2	1	1	3	2	3	2	3	2	6	5	1	1	1	2	55	other hazards, harmful substances
drill press, milling machine			4	2		3	1	5	1	2	3	4	4	4	2	5	2			3	3	1	2	51	drill press, milling machine
lumber, bamboo			3	4		2	2		2	2	1	1	1			3	5	2	1	2	3	2	2	38	lumber, bamboo
scaffolding						1						1				1	1			1			2	7	scaffolding
other materials			8	6		8	8	7	4	3	5	9	3	3	3	1	6	6	5	1	4	3	1	94	other materials
power transmission mechanism			3	3		4	5	4	6	2	8	5	3	6	4	5	4	5	4	3	2	1	1	78	power transmission mechanism
other causal agent			2	3		6	4	2		2	1	6	1	2	3	1	3	1	1		3	13	1	55	other causal agent
truck			4	3		1	2	1	1	3	3	5	3	1	3	4	3	3	3	2	1	1	1	48	truck
power press			4			5	4	1	2	1	2	2	4	1	3		1	1	2	2		1	1	37	power press
opening			1			3	2	1	4			1	2			1	4			1	2	1	1	24	opening
roof, beam, haze, crossbeam, principal rafter				2		3	1	3		2		1		1	1	1	1	3	1			1	1	22	roof, beam, haze, crossbeam, principal rafter
elevator, lift				2					1			1	1	2	2	1				1	2		1	14	elevator, lift
gas welding equipment							1	1	1	2	2			1	3	1				1			1	14	gas welding equipment
unclassifiable			1	1								3	2	1		1			1				1	11	unclassifiable

transmission							2	1															1	5	transmission		
mobile crane																				1			1	2	mobile crane		
lathe			6		6		3	6	2	3	4	2	3	2	2	1	5	2	2	5	1	2			57	lathe	
machine/equipment as load			5		3		5	5	2		1	1	3	2	1	1	1	4		1	1	2	3		41	machine/equipment as load	
harmful substance					1		3	3	3		2	1	2	5		1	2	3	2	3			1		32	harmful substance	
other environments			2				3	2	1		2	2	5	1	1	1	2	2	1	1					26	other environments	
circular sawing machine							1	1	2	2	4	1	2	2		2	2		1				1	2		23	circular sawing machine
human power cranes			2		2		1	1		1		1	2				3					2				15	human power cranes
injection molding machine			2		1		2		1		1			1					2	3						14	injection molding machine
railway equipment			2		1		1	1	2	1	1					3	2									14	railway equipment
other kiln, caldron					1		1	1	1	1	2				1		2	1		1		1				13	other kiln, caldron
other electrical equipment			1		1		1				1	1				2	1	1		1						10	other electrical equipment
arc welding equipment			1		1		1		1		1		1					1					1			8	arc welding equipment
industrial dryer									1	1	1			3	1											7	industrial dryer
inflammable gas							1				1					1	1		1			1				6	inflammable gas
engine			1					1						1	1				1							5	engine
centrifugal machine														1		2	1					1				5	centrifugal machine
other welding								1		1				1								2				5	other welding

equipment																									equipment	
human power machine			2						1	1													1		5	human power machine
other woodworking machines			1		1											2									4	other woodworking machines
explosive substance					1		1			2															4	explosive substance
other vehicles			1		1								1												3	other vehicles
band sawing machine										1			1												2	band sawing machine
wood planer machine							1						1												2	wood planer machine
leveling, transporting or loading machine			1						1																2	leveling, transporting or loading machine
shearing machine									2																2	shearing machine
roll machine (except printingroll machine)																									2	roll machine (except printingroll machine)
industrial robot			1																						2	industrial robot
other pressure vessels																									2	other pressure vessels
electric power facilities										1			1												2	electric power facilities
natural ground, rock																									2	natural ground, rock

total	569	575	534	416	408	464	515	489	476	479	269	386	423	384	324	334	300	338	295	298	316	256	291	306	9,445	total
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Transition of workers' age groups of fatal and non-fatal accidents in 011002 casting products 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
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	79	2,268	50-59
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	75	1,965	40-49
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	63	1,902	30-39
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	52	1,714	20-29
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	32	1,377	60 years old or more
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	5	219	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	306	9,445	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 011002 casting products 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
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	75	1,964	30-49
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	74	1,766	50-99
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	70	3,084	10-29
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	47	1,061	100-299
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	21	1,249	9 workers or less
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	19	321	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	306	9,445	total

Transition of occurred months of fatal and non-fatal accidents in 011002 casting products 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
March	47	41	53	36	37	47	41	44	35	50	23	32	33	34	19	30	33	31	29	22	31	26	19	33	826	March
February	53	46	59	27	29	28	59	42	45	47	26	23	34	38	25	31	22	26	23	20	28	19	15	33	798	February
July	61	58	44	41	36	33	46	41	42	44	21	35	23	21	35	30	23	33	25	26	32	15	27	32	824	July
November	48	45	27	36	33	39	45	41	48	25	19	29	39	33	21	24	30	34	20	20	21	24	25	28	754	November
August	38	57	41	42	35	39	46	41	32	42	27	33	39	24	30	21	22	16	35	21	26	14	31	27	779	August
January	41	48	40	34	28	34	37	41	41	40	28	28	35	27	24	36	26	32	18	32	25	30	22	26	773	January
April	51	35	58	30	43	38	42	36	42	38	22	29	33	30	30	15	29	34	28	30	32	31	24	24	804	April
May	31	45	38	23	31	40	40	35	38	46	11	28	37	34	25	27	29	31	22	34	22	16	21	23	727	May
October	63	51	51	41	32	50	41	45	43	36	26	31	30	29	23	42	13	37	24	26	20	24	26	22	826	October
September	42	45	49	37	33	42	44	48	39	36	25	37	52	39	23	27	31	30	30	17	26	20	29	21	822	September
December	40	46	35	35	32	32	27	36	34	29	22	32	28	33	36	26	16	20	21	26	17	20	30	20	693	December
June	54	58	39	34	39	42	47	39	37	46	19	49	40	42	33	25	26	14	20	24	36	17	22	17	819	June
total	569	575	534	416	408	464	515	489	476	479	269	386	423	384	324	334	300	338	295	298	316	256	291	306	9,445	total

Transition of prefectures of fatal and non-fatal accidents in 011002 casting products 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
Aichi	87	77	83		61		76	64	73	64	40	63	67	61	46	40	38	45	39	43	36	36	57	50	1,246	Aichi
Saitama	62	85	49		40		48	36	44	41	21	32	39	22	28	31	27	20	25	25	22	26	25	24	772	Saitama
Osaka	51	36	34		33		27	31	26	21	17	10	17	17	12	14	17	24	16	15	20	12	15	18	483	Osaka
Niigata	13	20	12		6		21	27	24	21	7	17	22	8	8	9	18	11	14	14	16	9	14	18	329	Niigata
Shizuoka	25	30	27		20		22	24	25	23	8	15	34	22	19	22	22	18	18	20	15	13	16	15	453	Shizuoka
Mie	32	36	40		32		19	23	26	23	16	17	20	23	18	14	13	15	15	16	13	11	18	14	454	Mie

Kyoto	9	4	6		4		8	3	1	6	1	6	4	1	1	4	3		1	2		2	1	3	70	Kyoto	
Kanagawa	5	8	9		5		7	7	10	6	2	3	1	3	1	3	4	2	10	6	2		3	1	98	Kanagawa	
Akita	4	7	7		4		10	8	6	3	5	5	2	4	5		4	5	2	5	2	1	6	1	96	Akita	
Kagawa	5	7	6		4		2	2	4	7	2	6	2	4		4	1		5		4	3	2	1	71	Kagawa	
Yamaguchi	7	6	2		4		6	2	2	4	2	2		1	2		2	6		1	4	5		1	59	Yamaguchi	
Wakayama		3	2				3	2	6	3	1	2	1	1	2	2	1		1	2	3	5	1	1	42	Wakayama	
Fukui	3	3	4		4		2	1	2		1	2	2	1		1	5	3	2		2			1	39	Fukui	
Tottori	1	2					3	2	3	1	1	1	2	1	3	2	2	3	1	2	1	1	1	1	34	Tottori	
Okinawa									1	2	1	2		1		1	2	1	1		1	1	2	1	17	Okinawa	
Tokushima								1	2				1	1		3	1	1						1	1	12	Tokushima
Shiga	3	4	1		9		3	6	4	2		2	3	2	7	2	3	4	6	2	6		2		71	Shiga	
Nagasaki	4	2	6		2		5	1	2	1	3	1		4	4	6	5	4	2	1	4		1		58	Nagasaki	
Tokyo	8	9	4		2		2	3	2	2	2	2	2	4				3			2	1	2		50	Tokyo	
Yamanashi	3	1	1		1		1	2	3	8	1	2	6		4	2	1	4		2	4	2			48	Yamanashi	
Oita	5	1			2		4	1	1	3	6		1	3		1		1			1				30	Oita	
Aomori		3	1		1		4	1	2		2	2	2	4	1	1	1		2				1		28	Aomori	
Miyazaki	3																			1					4	Miyazaki	
Kagoshima	1	3																							4	Kagoshima	
total	569	575	534	416	408	464	515	489	476	479	269	386	423	384	324	334	300	338	295	298	316	256	291	306	9,445	total	

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