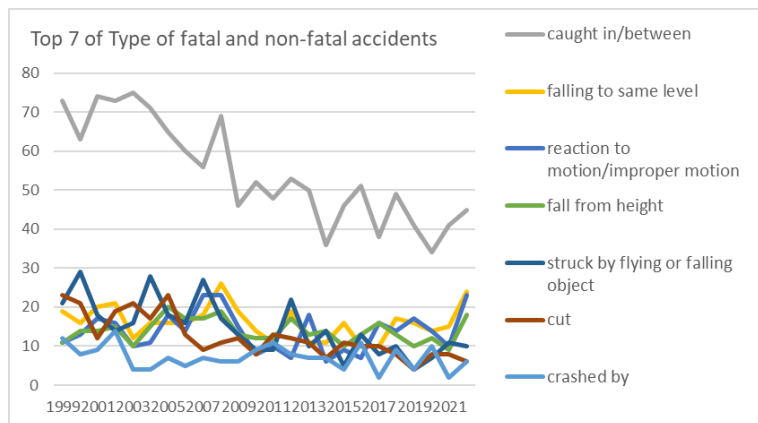
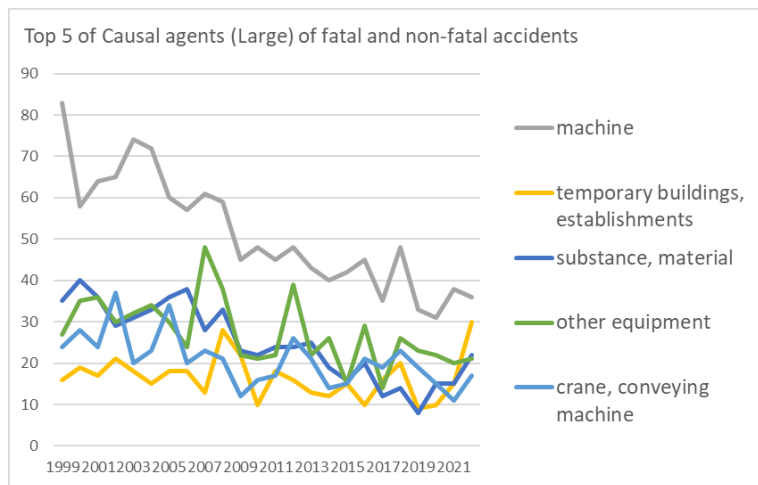


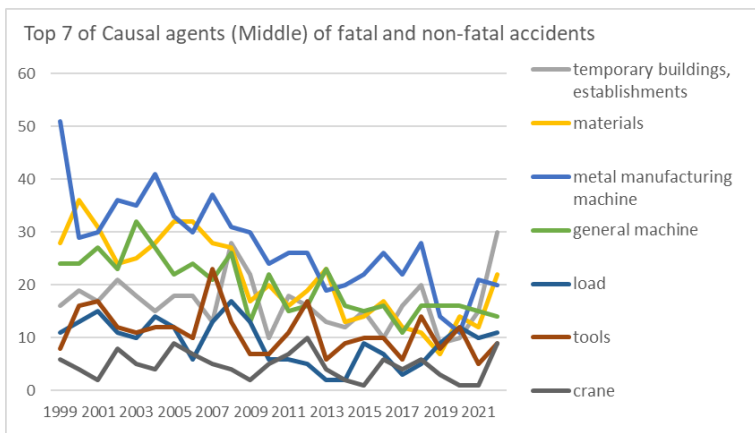
Transition of fatal and non-fatal accidents in 011109 other nonferrous metal products in Japan (1999-2022)



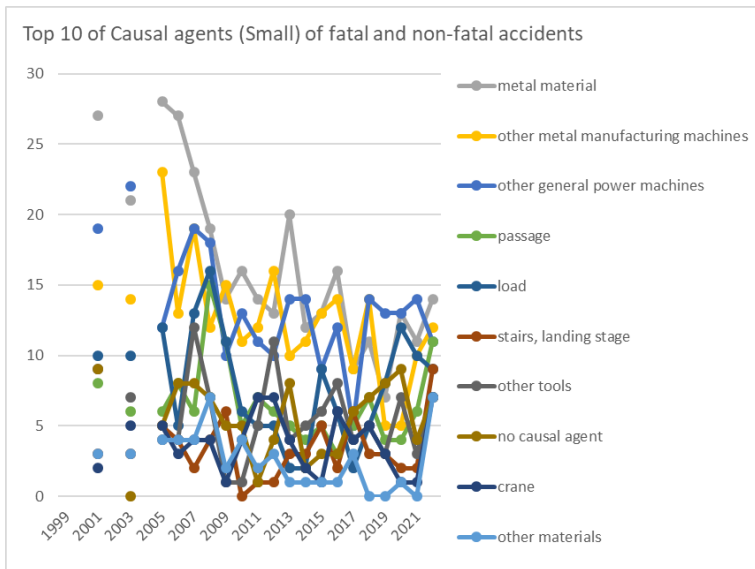
Transition of Top 7 of Type of fatal and non-fatal accidents in 011109 other nonferrous metal products in Japan (1999-2022)



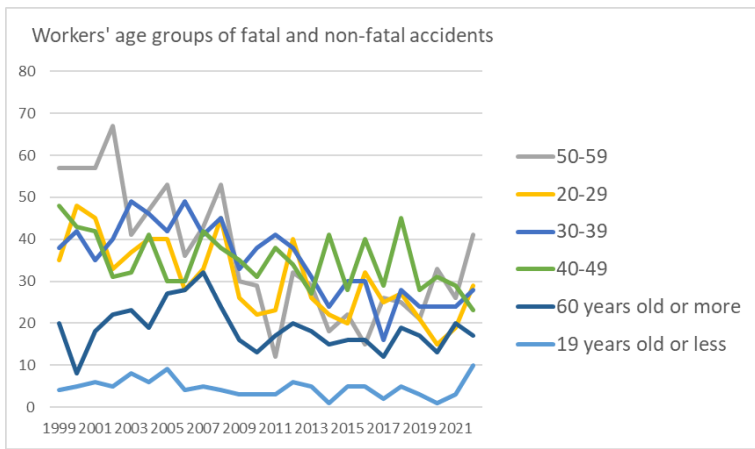
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 011109 other nonferrous metal products in Japan (1999-2022)



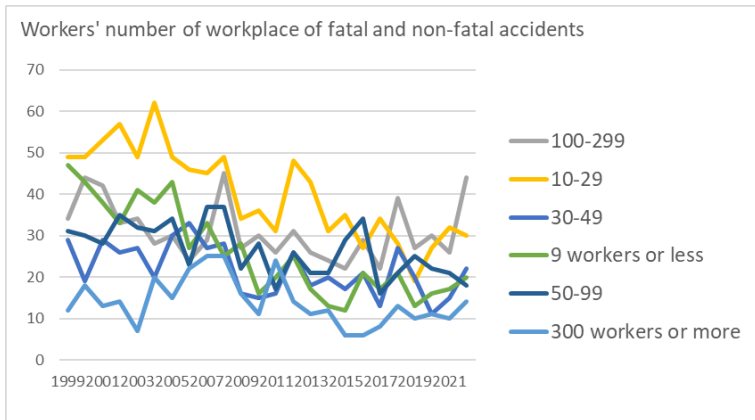
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 011109 other nonferrous metal products in Japan (1999-2022)



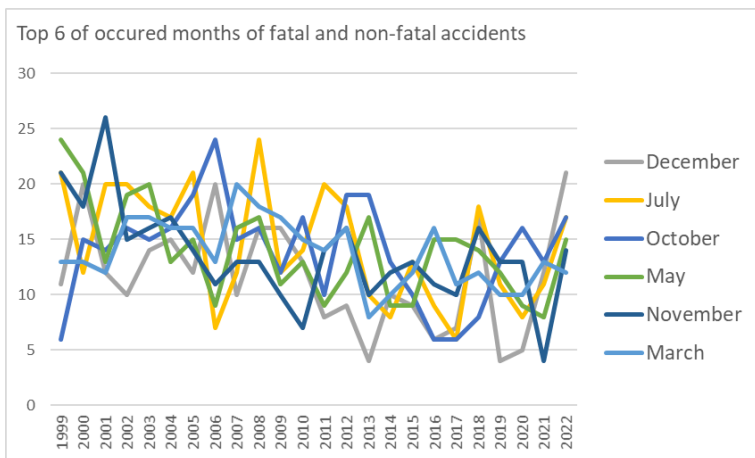
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 011109 other nonferrous metal products in Japan (1999-2022)



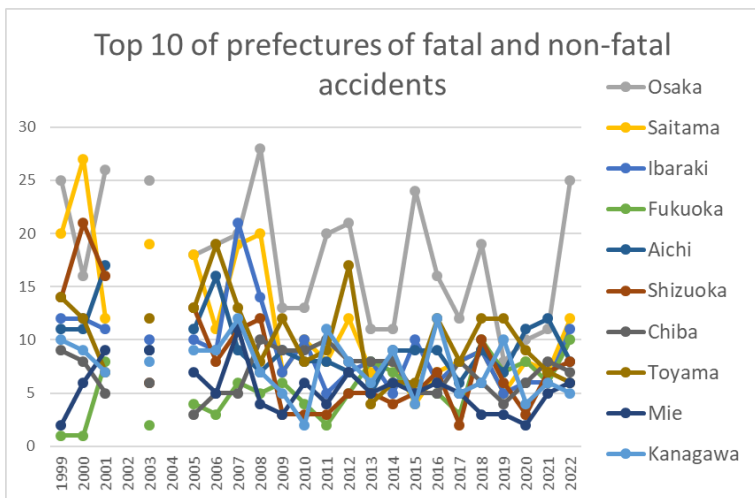
Transition of workers' age groups of fatal and non-fatal accidents in 011109 other nonferrous metal products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 011109 other nonferrous metal products in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 011109 other nonferrous metal products in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 011109 other nonferrous metal products in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 011109 other nonferrous metal 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	73	63	74	73	75	71	65	60	56	69	46	52	48	53	50	36	46	51	38	49	41	34	41	45	1,309	caught in/between
falling to same level	19	16	20	21	12	16	16	16	18	26	19	14	11	19	11	11	16	10	10	17	16	14	15	24	387	falling to same level

																										level
reaction to motion/improper motion	11	13	17	16	10	11	18	14	23	23	15	8	10	7	18	6	9	7	16	14	17	14	10	23	330	reaction to motion/improper motion
fall from height	11	14	14	15	10	15	20	17	17	19	13	12	12	17	13	14	10	13	16	13	10	12	9	18	334	fall from height
struck by flying or falling object	21	29	18	14	16	28	18	16	27	17	13	9	9	22	10	14	5	13	8	10	4	7	11	10	349	struck by flying or falling object
cut	23	21	12	19	21	17	23	13	9	11	12	8	13	12	11	7	11	10	10	8	4	8	8	6	297	cut
crashed by	12	8	9	14	4	4	7	5	7	6	6	9	11	8	7	7	4	11	2	9	4	10	2	6	172	crashed by
contact to high/low-temperature	13	15	9	5	14	22	9	14	17	13	5	12	7	14	11	11	9	5	5	12	7	6	10	5	250	contact to high/low-temperature
crash	5	5	13	6	6	8	7	8	10	7	4	3	4	5	3	3	2	6	3	11	3	7	3	5	137	crash
collapse	3	8	6	4	5	1	6	3	5	5	4	2	1	5	2	3	3	2		3	4	2	2	4	83	collapse
contact to harmful substance	5	1	3	6	4	2	2	4	1	4	4	3	6	3		2		3	1	2		1	1	1	59	contact to harmful substance
explosion	3	3	2	2	4		2	1	1	3	1		2										3	1	28	explosion
traffic accident (public road)	1	2	2	1	4	2	6	1	1	2						3	1	2			1				29	traffic accident (public road)
others	1	2			2		1			1		2		3			2	1	1		1	1	4		22	others
injury to the sole of the foot	1	1	2		1	1		1	2					1			2						1		13	injury to the sole of the foot
burst				1	1			1	2									3		1					9	burst
electric shock		2	1	1		1				1	1	1													8	electric shock

fire							1		1				1		2				2		1		8	fire		
unclassifiable				1		1			1						2		1			1			7	unclassifiable		
drown			1									1											2	drown		
traffic accident (others)																	1							1	traffic accident (others)	
total	202	203	203	198	190	199	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	148	3,834	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 011109 other nonferrous metal 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
machine	83	58	64	65	74	72	60	57	61	59	45	48	45	48	43	40	42	45	35	48	33	31	38	36	1,230	machine
temporary buildings, establishments	16	19	17	21	18	15	18	18	13	28	22	10	18	16	13	12	15	10	16	20	9	10	15	30	399	temporary buildings, establishments
substance, material	35	40	36	29	31	33	36	38	28	33	23	22	24	24	25	19	16	20	12	14	8	15	15	22	598	substance, material
other equipment	27	35	36	30	32	34	30	24	48	38	22	21	22	39	22	26	15	29	14	26	23	22	20	21	656	other equipment
crane, conveying machine	24	28	24	37	20	23	34	20	23	21	12	16	17	26	21	14	15	21	19	23	19	15	11	17	500	crane, conveying machine
load	11	13	15	11	10	14	12	6	13	17	13	6	6	5	2	2	9	7	3	5	9	12	10	11	222	load
others	2	8	9	4	2	4	10	9	8	9	5	7	1	6	8	5	5	5	8	10	9	11	8	9	162	others
environment	4	2	2	1	3	4	1	3	2	4	1	6	1	6	2	3	4	1	3	3	4	1	4	2	67	environment
total	202	203	203	198	190	199	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	148	3,834	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 011109 other nonferrous metal products in Japan (1999-2022)

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	2022	total	Causal (M) agents
temporary buildings, establishments	16	19	17	21	18	15	18	18	13	28	22	10	18	16	13	12	15	10	16	20	9	10	15	30	399	temporary buildings, establishments
materials	28	36	31	24	25	28	32	32	28	27	17	20	16	19	23	13	14	17	12	11	7	14	12	22	508	materials
metal manufacturing machine	51	29	30	36	35	41	33	30	37	31	30	24	26	26	19	20	22	26	22	28	14	11	21	20	662	metal manufacturing machine
general machine	24	24	27	23	32	27	22	24	21	26	13	22	15	16	23	16	15	16	11	16	16	16	15	14	474	general machine
load	11	13	15	11	10	14	12	6	13	17	13	6	6	5	2	2	9	7	3	5	9	12	10	11	222	load
tools	8	16	17	12	11	12	12	10	23	13	7	7	11	17	6	9	10	10	6	14	8	12	5	9	265	tools
crane	6	4	2	8	5	4	9	7	5	4	2	5	7	10	4	2	1	6	4	6	3	1	1	9	115	crane
conveying machine	17	23	20	28	11	17	18	12	17	16	9	11	9	15	17	9	12	14	15	14	14	14	10	8	350	conveying machine
no causal agent	2	6	9	1		2	5	8	8	7	5	5	1	4	8	2	3	3	6	7	8	9	4	7	120	no causal agent
human power machine, tools	8	7	8	5	11	11	5	5	6	10	5	3	3	8	7	7		4	2	3	4	3	4	5	134	human power machine, tools
other equipments, facilities	5	6	3	6	3	5	7	2	5	6	5	3	4	5	6	6	1	4	3	4	4	4	2	5	104	other equipments, facilities

mobile silviculture machine																										mobile silviculture machine
total	202	203	203	198	190	199	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	148	3,834	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 011109 other nonferrous metal products in Japan (1999-2022)

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	2022	total	Causal (S) agents	
metal material			27		21		28	27	23	19	14	16	14	13	20	12	13	16	9	11	7	13	11	14	328	metal material	
other metal manufacturing machines			15		14		23	13	19	12	15	11	12	16	10	11	13	14	9	14	5	5	10	12	253	other metal manufacturing machines	
other general power machines			19		22		12	16	19	18	10	13	11	10	14	14	9	12	5	14	13	13	14	11	269	other general power machines	
passage			8		6		6	8	6	15	11	5	7	6	5	4	5	3	5	7	4	4	6	11	132	passage	
load			10		10		12	5	13	16	11	6	5	5	2	2	9	6	2	5	8	12	10	9	158	load	
stairs, landing stage			3		3		5	4	2	4	6		1	1	3	3	5	2	6	3	3	2	2	9	67	stairs, landing stage	
other tools			9		7		4	4	12	7	1	1	5	11	4	5	6	8	4	5	3	7	3	7	113	other tools	
no causal agent			9				5	8	8	7	5	5	1	4	8	2	3	3	6	7	8	9	4	7	109	no causal agent	
crane			2		5		5	3	4	4	1	4	7	7	4	2	1	6	4	5	3	1	1	7	76	crane	
other materials			3		3		4	4	4	7	2	4	2	3	1	1	1	1	3			1		7	51	other materials	
other equipment, facilities			3		3		7	2	5	6	5	3	4	5	6	6	1	4	3	4	4	4	2	5	82	other equipment, facilities	
forklift			9		5		7	6	6	12	1	5	3	9	6	4	7	4	4	9	6	7	3	3	116	forklift	
conveyor			4		3		4	2	4	1	2	3	4	2	3	1	2	3	4	1	2	4	2	3	54	conveyor	
working platform,																											working platform,

printingroll machine)			4		4		7	7		6	3	7	2	6	6	1	5	3	2	2		1		1	67	printingroll machine)
drill press, milling machine			3		7		1	2	4	3	2	3	1		3	2	2	2	1	3	3		1	1	44	drill press, milling machine
power transmission mechanism			5		2		3	1	1	1	2	1	1	2	1	1	1	2	1	3	3	1	1	1	34	power transmission mechanism
shearing machine			1		1		2		2	2	3	3	2	2				3		2	1	1	2	1	28	shearing machine
other powered conveying machines			1		2			2	2	1	2				1	1		2	1	1	3	1	1	1	22	other powered conveying machines
lumber, bamboo			1				1		1	1				3	2								1	1	11	lumber, bamboo
industrial robot			1		2		1							1	1								1	1	9	industrial robot
injection molding machine					1		2								1	1					1			1	7	injection molding machine
human power machine					1		1			1						2								1	6	human power machine
leveling, transporting or loading machine			1		1												1					1		1	5	leveling, transporting or loading machine
scaffolding							1							1				1						1	4	scaffolding
roof, beam, haze, crossbeam, principal rafter													2										1	1	4	roof, beam, haze, crossbeam, principal rafter
cars, bus, motorcycle			1		4		7	1	1	1	1		1	1		3	2	1		3	2				29	cars, bus, motorcycle
slinging tool			3		3		2		3		3		2	3	1	1	1			2	1	1	2		28	slinging tool

facilities			1						1	1		1												4	facilities	
natural ground, rock													1					1					2		4	natural ground, rock
band sawing machine													1												3	band sawing machine
mobile crane								1	1																3	mobile crane
other pressure vessels			1					1		1															3	other pressure vessels
other welding equipment			1																						3	other welding equipment
human power cranes									1																3	human power cranes
inflammable gas			1																						3	inflammable gas
excavating machine														1											2	excavating machine
forging pressure hammer																									2	forging pressure hammer
food manufacturing machine			1																						2	food manufacturing machine
printing machine																									2	printing machine
railway equipment																									2	railway equipment
loader																									2	loader
boiler																									2	boiler
other electrical equipment			1																						2	other electrical equipment

machine																									machine	
hardening machine																									hardening machine	
vehicle for high lift work																									vehicle for high lift work	
felling machine																									felling machine	
mobile logging machine																									mobile logging machine	
skyline yarding machine																									skyline yarding machine	
other mobile silviculture machine																									other mobile silviculture machine	
derrick crane																									derrick crane	
gondola																									gondola	
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway	
simple skyline yarding equipment																									simple skyline yarding equipment	
straddle carrier																									straddle carrier	
rough terrain hauler																									rough terrain hauler	
railway vehicle																									railway vehicle	
timbering																									timbering	
radiation																									radiation	
standing tree																									standing tree	
total	202	203	203	198	190	199	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	148	3,834	total

Transition of workers' age groups of fatal and non-fatal accidents in 011109 other nonferrous metal 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	57	57	57	67	41	47	53	36	43	53	30	29	12	32	29	18	22	15	26	25	21	33	26	41	870	50-59
20-29	35	48	45	33	37	40	40	28	33	45	26	22	23	40	26	22	20	32	25	27	21	15	19	29	731	20-29
30-39	38	42	35	40	49	46	42	49	41	45	33	38	41	38	31	24	30	30	16	28	24	24	24	28	836	30-39
40-49	48	43	42	31	32	41	30	30	42	38	35	31	38	34	27	41	28	40	29	45	28	31	29	23	836	40-49
60 years old or more	20	8	18	22	23	19	27	28	32	24	16	13	17	20	18	15	16	16	12	19	17	13	20	17	450	60 years old or more
19 years old or less	4	5	6	5	8	6	9	4	5	4	3	3	3	6	5	1	5	5	2	5	3	1	3	10	111	19 years old or less
total	202	203	203	198	190	199	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	148	3,834	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 011109 other nonferrous metal 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
100-299	34	44	42	33	34	28	30	24	29	45	27	30	26	31	26	24	22	29	22	39	27	30	26	44	746	100-299
10-29	49	49	53	57	49	62	49	46	45	49	34	36	31	48	43	31	35	27	34	28	19	27	32	30	963	10-29
30-49	29	19	29	26	27	20	30	33	27	28	16	15	16	26	18	20	17	21	13	27	20	11	15	22	525	30-49
9 workers or less	47	43	38	33	41	38	43	27	33	25	28	16	20	25	17	13	12	21	17	21	13	16	17	20	624	9 workers or less
50-99	31	30	28	35	32	31	34	23	37	37	22	28	17	26	21	21	29	34	16	21	25	22	21	18	639	50-99
300 workers or more	12	18	13	14	7	20	15	22	25	25	16	11	24	14	11	12	6	6	8	13	10	11	10	14	337	300 workers or more
total	202	203	203	198	190	199	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	148	3,834	total

Transition of occurred months of fatal and non-fatal accidents in 011109 other nonferrous metal 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
December	11	20	12	10	14	15	12	20	10	16	16	13	8	9	4	10	9	6	7	17	4	5	12	21	281	December
July	21	12	20	20	18	17	21	7	12	24	12	14	20	18	10	8	13	9	6	18	11	8	11	17	347	July
October	6	15	14	16	15	16	19	24	15	16	12	17	10	19	19	13	10	6	6	8	13	16	13	17	335	October
May	24	21	13	19	20	13	15	9	16	17	11	13	9	12	17	9	9	15	15	14	12	9	8	15	335	May
November	21	18	26	15	16	17	14	11	13	13	10	7	14	16	10	12	13	11	10	16	13	13	4	14	327	November
March	13	13	12	17	17	16	16	13	20	18	17	15	14	16	8	10	12	16	11	12	10	10	13	12	331	March
August	18	13	16	18	18	18	14	14	14	10	14	13	5	19	14	15	3	11	7	5	9	6	9	12	295	August
February	20	15	20	15	6	19	18	13	25	18	7	9	13	12	6	10	11	17	9	10	10	13	8	10	314	February
January	18	23	16	22	13	16	18	11	23	20	8	7	7	16	13	7	8	14	9	14	5	12	11	9	320	January
September	18	22	16	18	16	27	24	20	15	24	10	6	12	9	14	12	9	11	8	15	10	8	13	8	345	September
April	13	14	22	19	19	13	14	18	21	14	11	8	10	15	8	7	9	11	12	9	9	5	14	7	302	April
June	19	17	16	9	18	12	16	15	12	19	15	14	12	9	13	8	15	11	10	11	8	12	5	6	302	June
total	202	203	203	198	190	199	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	148	3,834	total

Transition of prefectures of fatal and non-fatal accidents in 011109 other nonferrous metal 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
Osaka	25	16	26		25		18	19	20	28	13	13	20	21	11	11	24	16	12	19	8	10	11	25	391	Osaka
Saitama	20	27	12		19		18	11	19	20	7	10	8	12	7	8	4	7	8	9	5	8	7	12	258	Saitama
Ibaraki	12	12	11		10		10	9	21	14	7	10	5	7	8	5	10	6	8	9	5	6	6	11	202	Ibaraki
Fukuoka	1	1	8		2		4	3	6	5	6	4	2	5	8	7	5	5	3	10	7	8	6	10	116	Fukuoka
Aichi	11	11	17		9		11	16	9	7	9	8	8	7	5	9	9	9	6	9	7	11	12	8	208	Aichi
Shizuoka	14	21	16		6		13	8	11	12	3	3	3	5	5	4	5	7	2	10	6	3	7	8	172	Shizuoka
Chiba	9	8	5		6		3	5	5	10	9	9	10	8	8	8	5	5	8	6	4	6	8	7	152	Chiba

Toyama	14	12	7		12		13	19	13	8	12	8	9	17	4	6	6	12	8	12	12	9	7	6	226	Toyama
Mie	2	6	9		9		7	5	11	4	3	6	4	7	5	6	5	6	5	3	3	2	5	6	119	Mie
Kanagawa	10	9	7		8		9	9	12	7	5	2	11	8	6	9	4	12	5	6	10	4	6	5	164	Kanagawa
Hyogo	13	6	4		8		8	5	12	8	9	7	5	7	8	6	3	2	3	4	4	6	5	5	138	Hyogo
Shiga	3	4	5		3		13	8	10	14	2	4	5	9	4	2	2	6	1	6	3	1	5	5	115	Shiga
Gunma	8	1	5		4		6	4	9	9	1	2	2	5	4	2	5	3	2	7	3	5	3	5	95	Gunma
Hiroshima	4	2	5		3		1	4	1	6	2	6	3	2	1		2	3	1		1	2	2	4	55	Hiroshima
Kyoto	3	2	5		4		6	3	4	11	3	4	2	3	4	2	2	2	1	1	1		2	3	68	Kyoto
Niigata	2	2	4		3		3	1	2	3	4	3	3	1	1	4	4	3	2	2	1	3	2	3	56	Niigata
Iwate	2	1	1		2		1	2	1	3		3	1	2		2			3					3	27	Iwate
Tokyo	11	2	7		8		3	3	2	5	5	2	3	1	3	4	2	2		3	2	2	1	2	73	Tokyo
Fukui	2	1	3		1		1	2	2	2	6	4	1	2	4	1	2	2	3		1			2	42	Fukui
Aomori	3	2					2	1	3	4	3	1	1		2	1	1		3	5	1	1	1	2	37	Aomori
Yamanashi		2	5		2		1	1		2	3	1				1	1	1	2	1	1		1	2	27	Yamanashi
Saga		1	3				2	1						1	1				1				1	2	13	Saga
Tochigi	7	12	8		4		10	9	6	1	3	2	4	6	4	5	2	1	3	3	6	5	1	1	103	Tochigi
Gifu	2	4	7		6		3	3	3	7	5	2	1	5	5	5	3	3	2	3	4	6	9	1	89	Gifu
Miyagi	2		1		4		1	4		3	3	6	3	2	4	1	2	3		2	2	4	1	1	49	Miyagi
Kumamoto	2	14	2		2		5	2	1		1		1	3		2		1	2		2	2		1	43	Kumamoto
Okayama		1	1		1		3	2			1	1	1	2		1	1	1	4	3	3	2	3	1	32	Okayama
Kagawa	2	3	2		5		1	1	1		1		1	4	1	1		3		2		2	1	1	32	Kagawa
Ehime			3		1		3	1	1	2	1	1	2	1		2		2	1	2	2			1	26	Ehime
Yamagata	3		2				2	2		1	1	1	2	1				1	2	2		1	2	1	24	Yamagata

Hokkaido	1				2		2		1	1	2	2	1	4	1	1		1	1		1	1		1	23	Hokkaido
Ishikawa		3			3				1		1		1	1	2		1	1	1		1			1	17	Ishikawa
Tottori					1		1	1	1			1	1				1	1				1		1	10	Tottori
Kochi																	1		1			2		1	5	Kochi
Nagano	3	8	1		4		2	3	2	2	2	3	6	2	5	1	1	5	1	3	2	2	3		61	Nagano
Fukushima	7	3	6		4		4	2	1	4				3	9	2	2	2	2	2	3	1	2		59	Fukushima
Nara	1	1	1		2		1	3	1	1	4	5			1		2	1		2					26	Nara
Miyazaki		1	1		4		2	2		1			2	3	3			1		1					21	Miyazaki
Yamaguchi	1	1	1				2		2	1	2										1				11	Yamaguchi
Akita					1						2				1	2	2	1						1	10	Akita
Nagasaki			1		1		1			1	1		1		1			1	1	1					10	Nagasaki
Wakayama		1	1				1		1		1			1			1		1	1					9	Wakayama
Oita	1	1					1		1	1			1	2											8	Oita
Kagoshima		1					1					1					1				1	1			6	Kagoshima
Okinawa	1						2			1															4	Okinawa
Tokushima					1			1											1						3	Tokushima
Shimane												1									1				2	Shimane
total	202	203	203	198	190	199	201	175	196	209	143	136	134	170	136	121	121	138	110	149	114	117	121	148	3,834	total

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