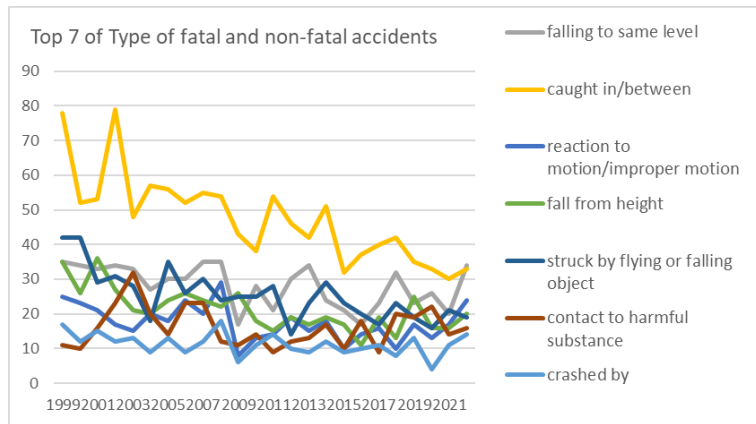
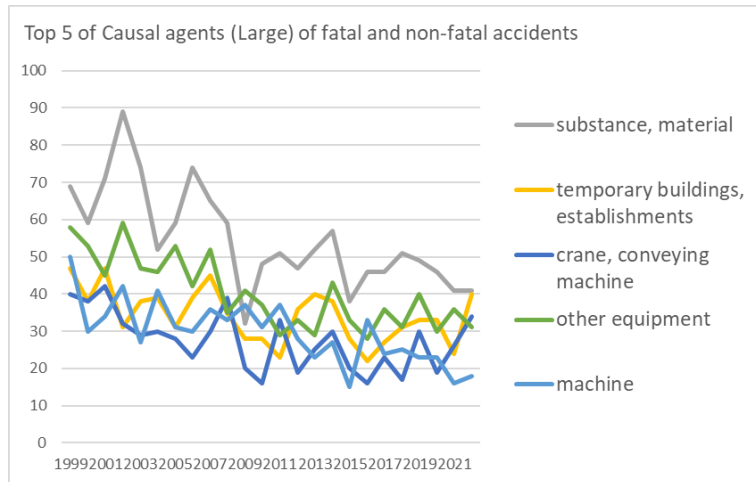


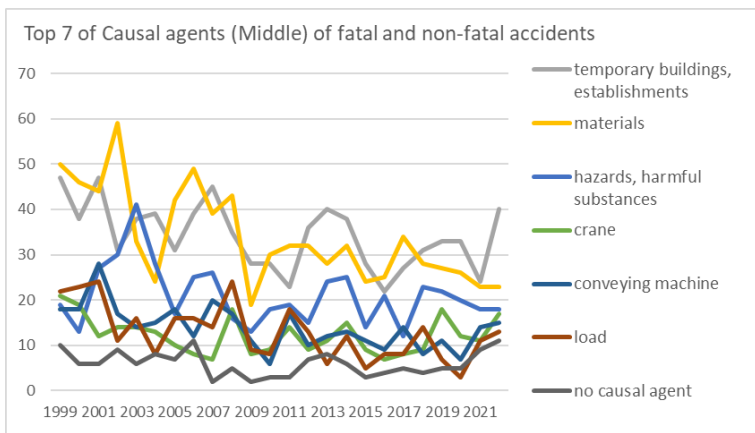
Transition of fatal and non-fatal accidents in 011204 metal plating products in Japan (1999-2022)



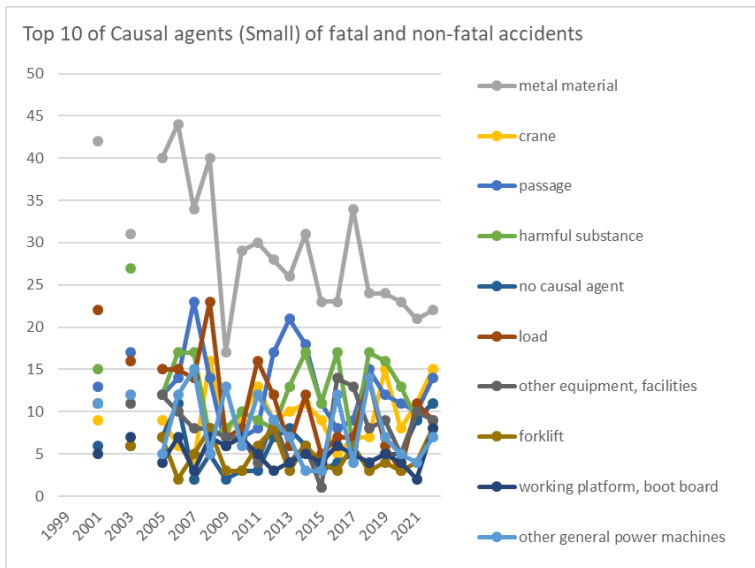
Transition of Top 7 of Type of fatal and non-fatal accidents in 011204 metal plating products in Japan (1999-2022)



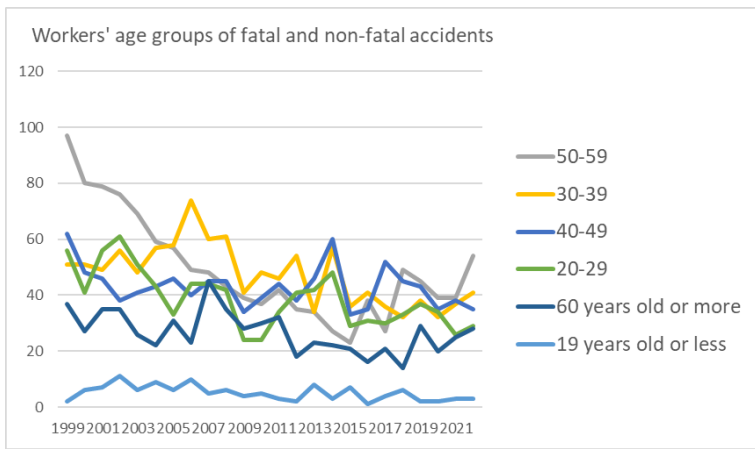
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 011204 metal plating products in Japan (1999-2022)



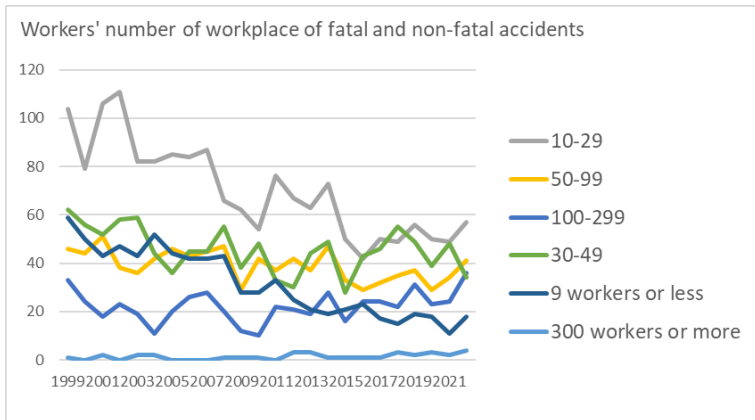
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 011204 metal plating products in Japan (1999-2022)



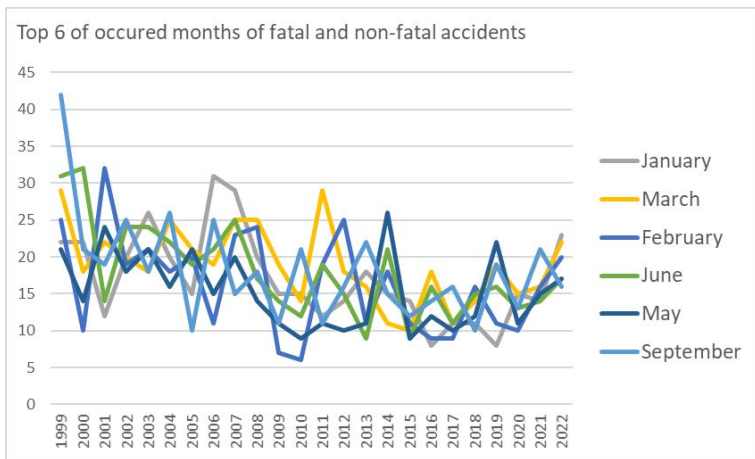
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 011204 metal plating products in Japan (1999-2022)



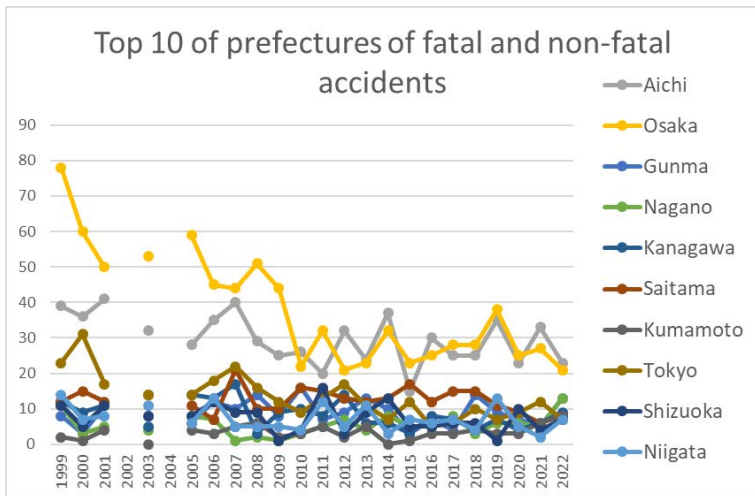
Transition of workers' age groups of fatal and non-fatal accidents in 011204 metal plating products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 011204 metal plating products in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 011204 metal plating products in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 011204 metal plating products in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 011204 metal plating 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
falling to same level	35	34	33	34	33	27	30	30	35	35	17	28	21	30	34	24	21	17	23	32	23	26	20	34	676	falling to same level
caught in/between	78	52	53	79	48	57	56	52	55	54	43	38	54	46	42	51	32	37	40	42	35	33	30	33	1,140	caught

																										in/between
reaction to motion/improper motion	25	23	21	17	15	20	18	24	20	29	8	13	14	19	15	18	10	14	16	10	17	13	17	24	420	reaction to motion/improper motion
fall from height	35	26	36	27	21	20	24	26	24	22	26	18	15	19	17	19	17	11	19	13	25	16	16	20	512	fall from height
struck by flying or falling object	42	42	29	31	28	18	35	26	30	24	25	25	28	14	23	29	23	20	17	23	19	16	21	19	607	struck by flying or falling object
contact to harmful substance	11	10	16	23	32	20	14	23	23	12	11	14	9	12	13	17	10	18	9	20	19	22	14	16	388	contact to harmful substance
crashed by	17	12	15	12	13	9	13	9	12	18	6	11	14	10	9	12	9	10	11	8	13	4	11	14	272	crashed by
crash	11	15	15	11	13	12	9	7	11	9	5	7	9	5	8	9	5	6	7	8	12	8	14	11	227	crash
contact to high/low-temperature	17	12	20	20	14	23	12	15	9	4	10	18	12	13	14	11	11	13	11	12	16	10	11	9	317	contact to high/low-temperature
collapse	16	9	13	12	11	8	9	14	8	10	8	4	12	8	5	10	6	5	6	3	4	8	7	5	201	collapse
cut	17	13	13	7	8	8	9	6	13	9	4	4	9	8	4	8		11	8	6	7	4	4	3	183	cut
traffic accident (public road)		2	2		1	2	1	3	3	3	3	2	1		2	2		1		2		2	2		34	traffic accident (public road)
others	1	2	3	1	1	4			2			1		2		2	2			2					23	others
injury to the sole of the foot				2		2				1	1		1			2	3		1	1		2			16	injury to the sole of the foot
explosion		1	1				1	1		1	1		1		1	1			1						10	explosion
fire				1	2			4		1			1	1											10	fire
electric shock					1	2					2					1									6	electric shock

burst									1					1		1							1			5	burst	
unclassifiable			2			1			1																	4	unclassifiable	
drown																												drown
traffic accident (others)																												traffic accident (others)
total	305	253	272	277	241	233	231	240	247	232	170	183	201	188	187	217	149	162	170	179	194	162	168	190	5,051	total		

Transition of Causal agents (Large) of fatal and non-fatal accidents in 011204 metal plating 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	69	59	71	89	74	52	59	74	65	59	32	48	51	47	52	57	38	46	46	51	49	46	41	41	1,316	substance, material
temporary buildings, establishments	47	38	47	31	38	39	31	39	45	35	28	28	23	36	40	38	28	22	27	31	33	33	24	40	821	temporary buildings, establishments
crane, conveying machine	40	38	42	32	29	30	28	23	30	39	20	16	33	19	25	30	20	16	23	17	30	19	26	34	659	crane, conveying machine
other equipment	58	53	45	59	47	46	53	42	52	35	41	37	29	33	29	43	33	28	36	31	40	30	36	31	967	other equipment
machine	50	30	34	42	27	41	31	30	36	33	37	31	37	28	23	27	15	33	24	25	23	23	16	18	714	machine
load	22	23	24	11	16	8	16	16	14	24	9	8	18	13	6	12	5	8	8	14	7	3	11	13	309	load
others	19	11	8	10	9	13	12	13	4	6	3	8	3	9	8	7	6	5	5	7	7	6	11	11	201	others
environment		1	1	3	1	4	1	3	1	1		7	7	3	4	3	4	4	1	3	5	2	3	2	64	environment
total	305	253	272	277	241	233	231	240	247	232	170	183	201	188	187	217	149	162	170	179	194	162	168	190	5,051	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 011204 metal plating 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	47	38	47	31	38	39	31	39	45	35	28	28	23	36	40	38	28	22	27	31	33	33	24	40	821	temporary buildings, establishments
materials	50	46	44	59	33	24	42	49	39	43	19	30	32	32	28	32	24	25	34	28	27	26	23	23	812	materials
hazards, harmful substances	19	13	27	30	41	28	17	25	26	16	13	18	19	15	24	25	14	21	12	23	22	20	18	18	504	hazards, harmful substances
crane	21	19	12	14	14	13	10	8	7	18	8	9	14	9	11	15	9	7	8	9	18	12	11	17	293	crane
conveying machine	18	18	28	17	14	15	18	12	20	17	11	6	17	10	12	13	11	9	14	8	11	7	14	15	335	conveying machine
load	22	23	24	11	16	8	16	16	14	24	9	8	18	13	6	12	5	8	8	14	7	3	11	13	309	load
no causal agent	10	6	6	9	6	8	7	11	2	5	2	3	3	7	8	6	3	4	5	4	5	5	9	11	145	no causal agent
tools	25	22	22	26	25	19	24	16	25	14	21	19	18	16	12	17	19	8	15	14	19	11	13	10	430	tools
general machine	15	16	13	22	13	16	8	14	18	9	14	6	18	10	8	7	5	13	5	14	9	7	7	9	276	general machine
other equipments, facilities	18	13	11	13	11	14	12	10	8	8	7	7	4	9	4	6	1	14	13	8	9	5	10	9	224	other equipments, facilities
metal manufacturing	32	13	18	16	12	21	18	11	14	20	20	18	17	12	11	17	9	17	17	10	13	9	8	7	360	metal manufacturing

machine																												machine
human power machine, tools	12	9	7	12	7	6	11	10	11	10	5	6	6	4	7	14	8	4	6	8	7	7	9	7	193	human power machine, tools		
kiln, caldron	3	5	2	5	1	2	4		5		4	5		3	5	3	3	1	2		2	5	2	4	66	kiln, caldron		
power transmission mechanism	2	1	2	4	2	1	4	5	4	4	3	6	1	6	4	2	1	3	1		1	5	1	2	65	power transmission mechanism		
natural environment		1	1	3	1	4	1	3	1	1		7	7	3	4	3	4	4	1	3	5	2	3	2	64	natural environment		
vehicle	1	1	2	1	1	2		3	3	4	1	1	2		2	2			1		1		1	2	31	vehicle		
chemical facilities		2		3	1	2	1		2	3	2		1	1		2	2	1		1	3		1	1	29	chemical facilities		
other causal agent	9	5	1	1	2	3	4	2	1	1	1	4		1		1	3			3	2	1	2		47	other causal agent		
welding equipment		2	2			1		5	1														1		12	welding equipment		
woodworking machine	1		1			3	1					1				1			1				1		10	woodworking machine		
electric equipment			1		2	1		1			2											2			9	electric equipment		
unclassifiable			1		1	2	1		1			1		1				1							9	unclassifiable		
pressure vessel						1	1								1	1									4	pressure vessel		
engine													1							1					2	engine		
construction machine																							1		1	construction machine		

building, establishment			9	1		3	6	8	5	2	2	2	8	1	7	4	1	3	3	1	4	1	6	77	building, establishment
truck			7	4		5	7	8	5	4	3	6	1	3	2	5	1	4	2	3	1	6	5	82	truck
human power hauling equipment			2	3		8	8	9	8	4	6	2	1	5	9	6	3	4	4	6	6	5	4	103	human power hauling equipment
other temporary buildings, establishments			8	4		1	2	1		4	4	2	2	2	1	3	4	2	3	3		4	4	54	other temporary buildings, establishments
kiln, caldron			2	1		4		3		4	4		3	2	3	3	1	2		1	4	2	4	43	kiln, caldron
machine/equipment as load			2			1	1		1	2		2	1				1	1		1			4	17	machine/equipment as load
ladder			10	7		5	6	6	3	7	8	2	8	3	5	6	2	4	6	8	5	5	3	109	ladder
grinding machine, buffing machine			8	7		8	8	5	7	8	8	7	8	6	6	3	8	10	3	4	5	1	2	122	grinding machine, buffing machine
other metal manufacturing machines			7	5		5	3	3	6	6	9	7	3	4	8	2	6	5	6	5	2	5	2	99	other metal manufacturing machines
power transmission mechanism			2	2		4	5	4	4	3	6	1	6	4	2	1	3	1		1	5	1	2	57	power transmission mechanism
other powered conveying machines			4	2		3	1	1	2	2		3		2			2	2	3	3	2	2	2	36	other powered conveying machines
cars, bus, motorcycle			2	1			3	3	4	1	1	2		2	2			1		1		1	2	26	cars, bus, motorcycle
other environments									1		1	2	2	2	3	1		1		2		1	2	18	other environments
human power						1							1					1				2	2	7	human power

cranes																									cranes			
slinging tool			5		11		7	3	6	3	5	5	6		2	5	4		1	3		4	2	1	73	slinging tool		
hand tool			5		4		2	1	2	2	1		4	2	2	5	2	1		4	1	1	2	1	42	hand tool		
other materials					2		2	4	4	2	1	1	1	4		1	1	1		3	1	3	1	1	33	other materials		
power press			2				4		1	3	2	1			1	1	2		1	1	2	1		1	23	power press		
chemical facilities					1		1		2	3	2		1	1		2	2	1		1	3		1	1	22	chemical facilities		
other powered crane			1		1		1	1	2	1						1		2	1	1	2	4		1	19	other powered crane		
roll machine (except printingroll machine)							1	1	2	1	1					1	2							1	13	roll machine (except printingroll machine)		
drill press, milling machine			1				1		2	2								2			1		1	1	11	drill press, milling machine		
elevator, lift			1		1			1	1	1			1						1	1				1	10	elevator, lift		
industrial robot			1					1					1			3		1					1	1	9	industrial robot		
opening					1			1		1	1					1	1		1					1	8	opening		
shearing machine									2				1					1			1	1		1	7	shearing machine		
conveyor			5		2		2	2	5	2	1		1	1	4	4	1	3	1		1	1	2		38	conveyor		
high/cold temperature environment					1		1	2	1				6	3	1	1			2	3			3	3	1	2	30	high/cold temperature environment
other causal agent			1		2		4	2	1	1	1	4		1		1	3			3	2	1	2		29	other causal agent		
lathe									1	2	4		2	1		2	2		1				1		16	lathe		
roof, beam, haze, crossbeam,																										13	roof, beam, haze, crossbeam,	

total	305	253	272	277	241	233	231	240	247	232	170	183	201	188	187	217	149	162	170	179	194	162	168	190	5,051	total
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Transition of workers' age groups of fatal and non-fatal accidents in 011204 metal plating 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	97	80	79	76	69	59	57	49	48	43	39	37	42	35	34	27	23	38	27	49	45	39	39	54	1,185	50-59
30-39	51	51	49	56	48	57	58	74	60	61	41	48	46	54	34	57	36	41	36	32	38	32	37	41	1,138	30-39
40-49	62	48	46	38	41	43	46	40	45	45	34	39	44	38	46	60	33	35	52	45	43	35	38	35	1,031	40-49
20-29	56	41	56	61	51	43	33	44	44	42	24	24	34	41	42	48	29	31	30	33	37	34	26	29	933	20-29
60 years old or more	37	27	35	35	26	22	31	23	45	35	28	30	32	18	23	22	21	16	21	14	29	20	25	28	643	60 years old or more
19 years old or less	2	6	7	11	6	9	6	10	5	6	4	5	3	2	8	3	7	1	4	6	2	2	3	3	121	19 years old or less
total	305	253	272	277	241	233	231	240	247	232	170	183	201	188	187	217	149	162	170	179	194	162	168	190	5,051	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 011204 metal plating 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
10-29	104	79	106	111	82	82	85	84	87	66	62	54	76	67	63	73	50	42	50	49	56	50	49	57	1,684	10-29
50-99	46	44	51	38	36	42	46	43	45	47	29	42	37	42	37	47	33	29	32	35	37	29	34	41	942	50-99
100-299	33	24	18	23	19	11	20	26	28	20	12	10	22	21	19	28	16	24	24	22	31	23	24	36	534	100-299
30-49	62	56	52	58	59	44	36	45	45	55	38	48	33	30	44	49	28	43	46	55	49	39	48	34	1,096	30-49
9 workers or less	59	50	43	47	43	52	44	42	42	43	28	28	33	25	21	19	21	23	17	15	19	18	11	18	761	9 workers or less
300 workers or more	1		2		2	2				1	1	1		3	3	1	1	1	1	3	2	3	2	4	34	300 workers or more
total	305	253	272	277	241	233	231	240	247	232	170	183	201	188	187	217	149	162	170	179	194	162	168	190	5,051	total

Transition of occurred months of fatal and non-fatal accidents in 011204 metal plating 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
January	22	22	12	20	26	20	15	31	29	20	15	15	12	14	18	15	14	8	11	11	8	15	14	23	410	January
March	29	18	22	20	18	25	21	19	25	25	19	14	29	18	16	11	10	18	11	14	19	15	16	22	454	March
February	25	10	32	19	21	18	20	11	23	24	7	6	19	25	11	18	11	9	9	16	11	10	16	20	391	February
June	31	32	14	24	24	22	19	21	25	17	14	12	19	15	9	21	9	16	11	15	16	13	14	17	430	June
May	21	14	24	18	21	16	21	15	20	14	11	9	11	10	11	26	9	12	10	12	22	11	15	17	370	May
September	42	21	19	25	18	26	10	25	15	18	11	21	11	16	22	15	12	14	16	10	19	13	21	16	436	September
July	27	27	22	29	20	13	21	29	20	16	14	20	13	15	18	20	13	13	23	21	24	19	11	15	463	July
November	24	27	24	25	12	25	23	25	19	14	17	14	24	20	20	15	17	11	18	21	11	17	9	15	447	November
August	17	19	31	19	21	19	31	20	14	24	12	15	21	9	16	25	10	17	15	16	18	12	13	13	427	August
December	16	18	21	19	24	15	19	16	16	25	20	18	14	14	10	14	13	13	15	12	14	20	18	12	396	December
April	24	22	26	33	19	17	15	10	17	17	14	19	18	16	12	18	12	18	18	16	12	12	8	11	404	April
October	27	23	25	26	17	17	16	18	24	18	16	20	10	16	24	19	19	13	13	15	20	5	13	9	423	October
total	305	253	272	277	241	233	231	240	247	232	170	183	201	188	187	217	149	162	170	179	194	162	168	190	5,051	total

Transition of prefectures of fatal and non-fatal accidents in 011204 metal plating 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	39	36	41		32		28	35	40	29	25	26	20	32	24	37	15	30	25	25	35	23	33	23	653	Aichi
Osaka	78	60	50		53		59	45	44	51	44	22	32	21	23	32	23	25	28	28	38	25	27	21	829	Osaka
Gunma	8	3	11		8		6	12	10	14	8	16	7	9	13	10	3	7	4	14	9	7	5	13	197	Gunma
Nagano	11	3	5		4		8	7	1	2	1	3	5	7	4	8	5	5	8	3	6	6	5	13	120	Nagano
Kanagawa	12	9	11		5		14	13	17	3	9	10	8	14	6	6	3	8	7	4	7	4	6	9	185	Kanagawa
Saitama	12	15	12		14		11	7	21	10	10	16	15	13	12	13	17	12	15	15	11	9	6	8	274	Saitama

Kumamoto	2	1	4				4	3	5	6	2	3	5	2	5		1	3	3	4	3	3	6	8	73	Kumamoto
Tokyo	23	31	17		14		14	18	22	16	12	9	13	17	11	7	12	5	6	10	7	9	12	7	292	Tokyo
Shizuoka	11	5	11		8		8	12	9	9	1	4	16	3	9	13	5	5	6	6	1	10	4	7	163	Shizuoka
Niigata	14	7	8		11		6	13	5	5	5	4	12	5	11	3	7	6	7	4	13	5	2	7	160	Niigata
Fukuoka	3	5	4		6		10	7	4	6	4	3	4	2	8	8	3	4	3	5	5	3	5	6	108	Fukuoka
Hiroshima	5	6	9		8		8	11	5	12	4	8	5	5	4	6	4	7	6	5	3	8	5	5	139	Hiroshima
Kyoto	5	6	9		3		3	1	2	1	4	4	2	1	5	2	1	5	6	3	3		1	5	72	Kyoto
Yamagata	1	2	4		1		3	2	3	6	1	4	3	6	4	4	1	3	5	1	4	5	1	5	69	Yamagata
Ibaraki	2	5			2		1	1	5	1		2	4	1	3	4	6		4	2	3	5	4	5	60	Ibaraki
Mie	3	4	5		1		2	3		4	2	5	1	3	2	3	2	1		2	2	2	2	5	54	Mie
Chiba	11	4	8		9		8	8	6	7	6	6	9	11	8	8	11	7	5	5	7	8	3	4	159	Chiba
Akita	1		1				2	3	4	2	3		4	2	2	3	3		3	3	2	2	5	4	49	Akita
Nagasaki	2	1	3				2	1	2	1	1	1		1		4	1		1		1			4	26	Nagasaki
Wakayama	1							1	1	1	1		2					1	1		1			4	14	Wakayama
Hyogo	16	12	9		7		8	4	2	11	4	9	5	5	3	10	7	2	6	10	6	2	7	3	148	Hyogo
Gifu	6	4	9		9		1	3	9		5	1	1	2	2	3	3	2	4	2		1	5	3	75	Gifu
Hokkaido	6	5	9		11			1	3	2	3	4	3	3	5	2	2	1	2	1	1	2	3	3	72	Hokkaido
Ehime	3	3	4		7		5	4		4	2	3	5	1	4	2	2	3	2	5	1	3	1	2	66	Ehime
Fukushima	2	1	4		5		1	1	5	5	1	4	2	2	1	1		1	2	4		2	1	2	47	Fukushima
Tochigi	4	4	4		1		5	1	3	3	1	1	2	3	1	2		3			2	2	1	2	45	Tochigi
Toyama	3	5	6		1		2	2	2			1	2	4	2	4	1	2		2		1	1	2	43	Toyama
Yamanashi					1			2		2					1			2	1		2	1		2	14	Yamanashi
Ishikawa	2	5	3		5		1	4	7	4	4	2		2	5	5	4	4	4	1	1	4	2	1	70	Ishikawa

Kagawa		2	1					1	3		2	3	2	1	1	2	1	1		5	3		1	1	30	Kagawa		
Miyazaki			3		3		1	2	1	1					1	1		1	3			1	1		19	Miyazaki		
Okayama	1				2		2		2	3	1		1			2					1	1		1	17	Okayama		
Kagoshima			1		1			2		1					2		2	1					2	1		13	Kagoshima	
Miyagi					1					1			2	1		1						2	3		1	12	Miyagi	
Kochi	2	1	1		1			1					1											1		8	Kochi	
Saga		1										1	1				1							1		5	Saga	
Yamaguchi	7	4					2	1	1	2		1	1	1		1	1	1	1	1	2	2	3			32	Yamaguchi	
Shiga		2			4		2	2	1	2	1	1	1	3	1	3	1	2	1	1	1		1			30	Shiga	
Iwate	3		2		1		2	2		1	2	1		2	2	1	1			1	4	1	1			27	Iwate	
Fukui	2		1					1	2				2		2	1		1	1	3	1		2			19	Fukui	
Oita	2	1	1				1	1		1	1	2	1	1	1	1						1	1	1		17	Oita	
Tokushima	1				1		1	1				1	2	2	1	1								1		12	Tokushima	
Aomori	1									3							1				3					8	Aomori	
Tottori			1					1							1			1					1	1		6	Tottori	
Nara												1							1	1	1	1				5	Nara	
Okinawa					1							1				1											3	Okinawa
Shimane																					1		1			2	Shimane	
total	305	253	272	277	241	233	231	240	247	232	170	183	201	188	187	217	149	162	170	179	194	162	168	190	5,051	total		

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