

Fatal and non-fatal accidents in other steel products in Japan in 1999-2021

other steel products industry Code No.011009

Type of accidents in other steel products in 1999-2021

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	total	Type of accidents
fall from height	37	56	38	32	47	36	40	32	40	32	29	23	29	25	24	23	29	24	21	32	29	23	20	721	fall from height
falling to same level	22	30	22	24	24	21	29	20	26	19	12	20	23	11	21	12	15	13	12	10	14	24	15	439	falling to same level
crash	18	12	16	14	12	14	10	10	11	16	6	8	8	5	7	7	10	10	8	7	7	7	3	226	crash
struck by flying or falling object	63	76	62	58	50	69	53	57	45	55	34	45	30	30	22	30	23	19	33	24	34	21	22	955	struck by flying or falling object
collapse	18	22	24	17	17	18	16	7	13	17	6	9	8	12	3	6	3	8	3	7	9	6	7	256	collapse
crashed by	39	28	29	19	13	24	22	17	16	22	18	15	14	16	13	15	16	10	23	6	20	14	18	427	crashed by
caught in/between	112	119	84	111	78	107	91	86	87	84	57	67	62	57	69	83	55	49	53	61	54	47	50	1,723	caught in/between
cut	20	26	25	23	17	17	14	14	17	18	19	12	12	10	9	8	14	12	9	4	6	9	10	325	cut
injury to the sole of the foot		1	2			1	1			2	2	1		1		2		1	1					15	injury to the sole of the foot
drown													1											1	drown
contact to high/low-temperature	12	8	12	6	10	12	14	8	12	11	7	11	6	14	8	13	7	7	10	5	5	10	7	215	contact to high/low-temperature









engine							1											1	1			3	engine	
power transmission mechanism							3		6	1	1	3	1	1	1	2	2		1		2	1	25	power transmission mechanism
circular sawing machine			1		2		2			1	1	1	2					1					11	circular sawing machine
band sawing machine																								band sawing machine
wood planer machine																1							1	wood planer machine
hollow chisel mortiser, wood borer																							1	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																								chamfering machine, router, woodworking milling machine
chain saw																						1	1	chain saw
other woodworking machines									1		2												4	other woodworking machines
leveling, transporting or loading machine				1		2		1			1	1	1		1		1	3		2	1	2	17	leveling, transporting or loading machine
excavating machine					1		2	2	1	1	3	3				1	1			1		1	1	excavating machine
foundation work machine													1										2	foundation work machine







simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane						1	1	2					1	1	1			2	1	2				12	other powered crane
truck			16		21		19	16	19	20	18	10	19	12	19	12	10	13	16	14	16	15	6	291	truck
forklift			10		2		8	6	4	9	11	8		7	5	5	5	2	9	5	4	6	3	109	forklift
railway equipment												1												1	railway equipment
conveyor			7		5		8	9	5	2	5	10	3	5	6	5	5	2	10	3	3	7	6	106	conveyor
loader			2															1	1					4	loader
straddle carrier												1												1	straddle carrier
rough terrain hauler																									rough terrain hauler
other powered conveying machines			2		3			1	4	3	2	1			2	2			1				1	22	other powered conveying machines
cars, bus, motorcycle					2		5	2	1	3	2	5	2	2	2	1	1	6		3	2	1	5	45	cars, bus, motorcycle
railway vehicle										1														1	railway vehicle
other vehicles									1							1	1		1			1		5	other vehicles
boiler																									boiler
pressure vessel																									pressure vessel
other pressure vessels			1					1		1			1						1					5	other pressure vessels
chemical facilities							1																	1	chemical facilities
gas welding			2		2		4	1	6	2	5	2	2	9	1		1	2	2	1	3	1	5	51	gas welding



facilities			2		5		10	12	5	7	12	3	7	5	1	8	2	1	5	4	1	4	9	103	facilities
scaffolding					2		1	2	2		1	2			1		1			1				13	scaffolding
timbering																									timbering
stairs, landing stage			6		2		4	3	1	4			1	3	5	3	4	4	1	3	1	3	4	52	stairs, landing stage
opening			1		1		1	1	1			2	2	1	1		1	1		1				14	opening
roof, beam, haze, crossbeam, principal rafter					1								1							3				5	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			3		3		6	2	5	10	1	5	8	5	8	3	6	4	2	4	4	8	5	92	working platform, boot board
passage			8		10		9	11	10	6	6	7	8	4	4	5	7	9	2	5	11	10	8	140	passage
building, establishment			10		4		1	4	7	4	6	5	3		2	2	3		3	2	3	2	2	63	building, establishment
other temporary buildings, establishments			3		2		7	4	2	3	3	3	2		1	1	2	1		3	1	2		40	other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance			1				1	1			2		1		1	1						1		9	inflammable substance
inflammable gas															1	1	1				1			4	inflammable gas
harmful substance							1		1	2	1			1	1		1				1			9	harmful substance
radiation																									radiation
other hazards, harmful substances			1		1		1	1	1	1				3		1		1		1	1		1	14	other hazards, harmful substances

metal material			98		73		60	65	68	64	39	55	46	42	46	38	33	38	32	33	39	27	39	935	metal material
lumber, bamboo			1		3		3		2	1	1		1		1	2	1	2		1		2	1	22	lumber, bamboo
stone, sand, substance			1					1	1							1								4	stone, sand, substance
other materials			4		4		1	2		1	1	1	3	2	2	2	1		1	2	2	3	2	34	other materials
load			14		18		15	13	13	15	8	7	8	9	6	12	9	10	5	12	6	8	6	194	load
machine/equipment as load			5		2		3	3		2		1	1	1			3		1	1	2	1		26	machine/equipment as load
natural ground, rock										1														1	natural ground, rock
standing tree							1		1											1				3	standing tree
water													2						1				1	4	water
abnormal environment								1														1		2	abnormal environment
high/cold temperature environment			1		1		1	1	2	1		5	3		1	3	2	2	4	2		2	1	32	high/cold temperature environment
other environments																2		1			1	1	1	6	other environments
other causal agent			1				1	2		1	1			2	1	2		3	2	1	2		11	30	other causal agent
no causal agent			10		13		9	7	5	5	3	2	3	7	2	5	5	6	4	9	8	3		106	no causal agent
unclassifiable							1			1								1						3	unclassifiable
total			341		289		319	277	289	296	206	226	212	201	189	216	187	172	182	188	200	178	177	4,345	total

Workers age of fatal and non-fatal accidents in other steel products in 1999-2021

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
19 years old or less	5	9	6	7	8	9	12	4	7	8	3	6	4	7	6	7	1	2	5	7	5		3	131	19 years old or less
20-29	67	79	69	72	42	69	60	57	45	54	27	36	37	39	35	36	32	27	33	25	31	25	26	1,023	20-29
30-39	60	65	50	66	45	66	72	55	59	56	48	52	52	39	44	46	39	45	45	35	35	41	36	1,151	30-39
40-49	83	62	65	45	51	51	50	54	53	52	45	44	48	50	43	66	45	48	45	57	59	51	43	1,210	40-49
50-59	119	138	112	104	105	109	89	66	68	70	57	46	46	38	27	35	38	24	32	35	36	33	38	1,465	50-59
60 years old or more	28	43	39	35	38	35	36	41	57	56	26	42	25	28	34	26	32	26	22	29	34	28	31	791	60 years old or more
total	362	396	341	329	289	339	319	277	289	296	206	226	212	201	189	216	187	172	182	188	200	178	177	5,771	total

Workers' number of workplace of fatal and non-fatal accidents in other steel products in 1999-2021

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
9 workers or less	121	114	108	109	98	107	78	72	86	74	38	45	47	46	49	44	44	28	33	36	42	29	34	1,482	9 workers or less
10-29	110	135	115	111	97	103	97	100	89	84	83	71	67	69	69	74	64	55	74	60	83	60	55	1,925	10-29
30-49	36	59	48	36	33	42	47	40	48	66	31	36	41	29	28	42	31	38	26	35	29	32	31	884	30-49
50-99	49	45	43	36	35	48	56	38	37	41	26	39	33	37	25	28	26	28	24	28	22	30	27	801	50-99
100-299	35	31	21	28	19	31	28	22	26	22	16	29	19	16	13	25	19	20	20	27	20	21	25	533	100-299
300 workers or more	11	12	6	9	7	8	13	5	3	9	12	6	5	4	5	3	3	3	5	2	4	6	5	146	300 workers or more
total	362	396	341	329	289	339	319	277	289	296	206	226	212	201	189	216	187	172	182	188	200	178	177	5,771	total

Month of fatal and non-fatal accidents in other steel products in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	25	27	20	24	21	22	26	11	29	29	18	19	15	13	11	15	15	11	6	8	15	13	18	411	January
February	25	45	27	27	22	26	30	26	25	21	11	10	18	13	9	13	14	21	16	18	16	10	14	457	February
March	20	30	35	24	25	35	33	26	30	30	20	20	24	23	14	22	16	19	18	12	16	17	13	522	March
April	28	27	26	25	29	28	24	23	20	21	14	14	13	12	19	15	15	11	15	13	20	22	12	446	April
May	28	44	36	29	21	36	18	29	35	22	19	17	20	17	19	19	19	12	17	18	18	10	16	519	May
June	24	27	39	22	19	21	18	30	22	15	20	21	15	26	12	15	19	13	19	21	13	19	14	464	June
July	45	28	33	31	27	33	33	19	24	40	19	22	22	18	19	19	16	11	18	15	20	17	10	539	July
August	33	33	23	27	26	27	33	20	20	22	14	17	17	20	17	29	18	14	11	22	11	16	26	496	August
September	39	30	29	27	26	33	32	20	26	28	17	20	24	17	24	25	14	13	17	11	19	17	15	523	September
October	30	40	35	31	23	29	24	24	28	25	22	21	16	17	20	13	17	13	17	16	16	11	16	504	October
November	36	34	23	36	27	27	26	24	13	29	11	25	14	17	9	17	9	22	12	14	18	14	13	470	November
December	29	31	15	26	23	22	22	25	17	14	21	20	14	8	16	14	15	12	16	20	18	12	10	420	December
total	362	396	341	329	289	339	319	277	289	296	206	226	212	201	189	216	187	172	182	188	200	178	177	5,771	total

Prefecture of fatal and non-fatal accidents in other steel products in 1999-2021

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
Hokkaido		3	4		1		2	5	4	2		4	10	2	1	8	6	6	6	4	2	6	5	81	Hokkaido
Aomori	1		1							1	1	2		2		3	2	3	1	3	3	1	2	26	Aomori
Iwate	2	2	2		1		1	1	3	1	2	1	2	1	1	1	1		2			1	1	26	Iwate

Miyagi	3	1	4		3		6	4	5	1	2	2	3	2	1			2		1	1	5	5	51	Miyagi
Akita		1			2			2	1	5	1	3	2	1			2		2	1		5	1	29	Akita
Yamagata	3	2	4		2		4	3	3		2	2	2	3	3		1	1	1	2	1	2	1	42	Yamagata
Fukushima	11	2	3		7		10	7	3	7	4	6	1	9	2	4	2	6	7	5	3	6	5	110	Fukushima
Ibaraki	8	4	7		5		6	11	3	7	6	7	3	5	2	5	11	3	8	11	4	5	6	127	Ibaraki
Tochigi	10	11			3		5	1	5	6	4	5	2	3	8	9	3	1	4	3	8	2	2	95	Tochigi
Gunma	15	13	6		6		7	14	7	4	5	4	6	3	6	3	8	7	7	8	6	2	5	142	Gunma
Saitama	10	34	17		12		8	3	4	3	6	5	7	4	5	7	5	6	6	8	10	7	2	169	Saitama
Chiba	43	34	46		13		17	12	13	23	15	9	12	13	5	10	10	6	9	8	10	10	18	336	Chiba
Tokyo	13	14	20		14		10	9	19	6	7	7	8	3	9	5	6	8	6	4	4	6	2	180	Tokyo
Kanagawa	16	15	12		9		16	21	15	12	11	12	7	9	10	7	8	10	12	9	13	6	7	237	Kanagawa
Niigata	11	14	4		7		9	9	10	15	6	12	7	10	6	6	7	8	9	10	6	7	6	179	Niigata
Toyama	5	8	4		8		2	2	3	5	3	1	1	1	8	4	3	2		2	2	2	2	68	Toyama
Ishikawa	3		3		2		3	7	1	5		2	4	2	3	4	1		1	3	6	1	5	56	Ishikawa
Fukui	1		1		1			2	1	2	3		1	2	3	2		1	4	2	3	1	1	31	Fukui
Yamanashi	2	2			1		2	1		1			1		2	5	1			1				19	Yamanashi
Nagano	9	4	4		2		4	5	4	2	1	6	1	2	4	1				1	1			51	Nagano
Gifu	5	9	6		7		8	3	4	4	4	3	4	5	5	3	3	2	1	4	3	3	3	89	Gifu
Shizuoka	22	18	6		7		4	8	7	6	7	6	10	6	3	5	3	3	2	8	5	4	9	149	Shizuoka
Aichi	48	36	44		42		29	29	38	40	25	32	25	24	25	26	15	21	22	16	29	14	22	602	Aichi
Mie	1	3	2		3		5	1	2	1		5	2	3	3	6	5		2	2	2	2	2	52	Mie
Shiga	2	5	5		9		11	7	6	5	3	4	3	2	3	3	5	5	4			3	5	90	Shiga
Kyoto	7	2	1		5		5	4	4		2	2	5	3	3	3	4	2	3		3	2	1	61	Kyoto

Osaka	25	34	30		36		29	24	29	31	14	20	23	26	20	20	19	15	17	19	18	17	8	474	Osaka
Hyogo	19	23	9		22		21	12	13	14	13	14	13	15	9	15	12	11	12	17	13	18	12	307	Hyogo
Nara	4	11	11				4	3	4	1	1	4	3	4	3	3	1	1	2	2	3	1	2	68	Nara
Wakayama	1	8	9		4		1	5	3	6	2	1	2	1	2	3	3	1	1	3			3	59	Wakayama
Tottori	3										1													4	Tottori
Shimane	3	2	2		1							2	2	2	1	1		1						17	Shimane
Okayama	4	7	15		10		12	13	11	12	10	8	7	2	5	8	9	10	9	5	7	9	9	182	Okayama
Hiroshima	17	20	17		10		17	11	12	21	11	14	9	9	11	10	9	13	7	16	13	6	5	258	Hiroshima
Yamaguchi	4	4	2		6		7	7	6	6	2	3	2	7	2		2	2	3	4	1	3	4	77	Yamaguchi
Tokushima	1		3				3	2	2			2		1							1			15	Tokushima
Kagawa	1	1			1		3	2	2	2	5	3	5		1	3		1			1		1	32	Kagawa
Ehime		2	1		1				1	1			1			3	2	3	2			3	2	22	Ehime
Kochi	2	5	2		6		13	7	7	9	3	3	3	3	1	7	1		3	1	3	1	2	82	Kochi
Fukuoka	13	23	18		6		17	8	13	10	7	5	4	4	5	3	3	9	5	1	7	6	6	173	Fukuoka
Saga	2	7	3		2		2		3	3	2	1		1		1	1	2	1		1	3	1	36	Saga
Nagasaki	1	3	1		3		4	1	2	3	2		2	2	3	1								28	Nagasaki
Kumamoto	3	4	4		2		3	5	6	5	5	3	2	2	2	3	6			1	1	1	1	59	Kumamoto
Oita	1	2	1		2		1				1		1			1	1		1	1		1		14	Oita
Miyazaki	3	1	4		5		2	2	6	3	3			1	1		3				5	3	1	43	Miyazaki
Kagoshima	3		1				3	3	1	2	1			1			1			2				18	Kagoshima
Okinawa	1	2	2				3	1	3	3	3	1	4		2	4	2				1	3	2	37	Okinawa
total	362	396	341		289		319	277	289	296	206	226	212	201	189	216	187	172	182	188	200	178	177	5,103	total





injury to the sole of the foot																								injury to the sole of the foot	
drown																								drown	
contact to high/low-temperature				1	2		1							1								1	6	contact to high/low-temperature	
contact to harmful substance														1									1	contact to harmful substance	
electric shock																			1				1	electric shock	
explosion												1			1								2	explosion	
burst																								burst	
fire					2																		2	fire	
traffic accident (public road)												1			1								2	traffic accident (public road)	
traffic accident (others)																								traffic accident (others)	
reaction to motion/improper motion																								reaction to motion/improper motion	
others						1						1			1							1	4	others	
unclassifiable																								unclassifiable	
total	4	4	2	3	10	5	4	4	2	5		5	7	2	4	6	3	2	5	3	2	1	5	88	total



engine																								engine
power transmission mechanism							1																1	power transmission mechanism
woodworking machine												1											1	woodworking machine
construction machine								1	1				1				1						4	construction machine
metal manufacturing machine			1		2		1					1					1					1	7	metal manufacturing machine
general machine	1	1			2	2						1		1			1						9	general machine
mobile silviculture machine																								mobile silviculture machine
crane		1	1				1		1	1		1				1		1		1	1		10	crane
conveying machine	1	1			1					2		1		1	2	1			1	1			12	conveying machine
vehicle												1											1	vehicle
pressure vessel								1															1	pressure vessel
chemical facilities																								chemical facilities
welding equipment					1																	1	2	welding equipment















hand tool																									hand tool
ladder									1															1	ladder
slinging tool					1					1						1	2							5	slinging tool
other tools																									other tools
other equipment, facilities																									other equipment, facilities
scaffolding																									scaffolding
timbering																									timbering
stairs, landing stage																									stairs, landing stage
opening											1	1												2	opening
roof, beam, haze, crossbeam, principal rafter													1											1	roof, beam, haze, crossbeam, principal rafter
working platform, boot board																									working platform, boot board
passage												1												1	passage
building, establishment				1	1																			2	building, establishment
other temporary buildings, establishments																									other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance					2																			2	inflammable substance





100-299				1		2		1		1		1	1		1	2			1						11	100-299
300 workers or more	2	1		1			1							1										1	7	300 workers or more
total	4	4	2	3	10	5	4	4	2	5		5	7	2	4	6	3	2	5	3	2	1	5	88	total	

Month of fatal accidents in other steel products in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January				1	2		1			1			1			1		1			1			9	January
February			1	1	1								2			1				1		1		8	February
March	1				1		1			1			2											6	March
April		1				1										2	1		1					6	April
May					1	2	1	1							1		1	1	1				2	11	May
June	1					1	1		1			1	1										1	7	June
July		1			2	1				2		1	1		2	1	1				1			13	July
August	1		1		1			1													1			5	August
September	1								1					1										3	September
October		1			1			1		1					1									5	October
November				1	1			1				1		1						1			2	8	November
December		1										2				1			2	1				7	December
total	4	4	2	3	10	5	4	4	2	5		5	7	2	4	6	3	2	5	3	2	1	5	88	total

Prefecture of fatal accidents in other steel products in 1999-2021







Miyazaki																										Miyazaki	
Kagoshima																											Kagoshima
Okinawa												1													1	Okinawa	
total	4	4	2	3	10	5	4	4	2	5		5	7	2	4	6	3	2	5	3	2	1	5	88	total		

Data sources: <https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.htm> (MHLW, Japan)

Return to [https://www.jisha.or.jp/english/statistics/2021e\\_industry.html](https://www.jisha.or.jp/english/statistics/2021e_industry.html)