

Industrial accidents in steel/iron/rolling products in Japan in 1999-2020

steel/iron/rolling products industry Code No.011001

Type of accidents in steel/iron/rolling products in 1999-2020

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
fall from height	36	32	34	38	33	29	32	29	47	52	24	19	29	30	23	24	27	25	24	29	18	20
falling to same level	19	17	31	25	26	22	18	23	33	25	12	32	15	28	21	18	21	22	24	25	24	29
crash	19	14	18	9	6	9	16	13	16	14	10	8	11	10	8	12	9	4	6	17	8	8
struck by flying or falling object	49	46	43	46	38	42	34	38	38	32	25	32	32	25	21	25	20	18	21	33	22	10
collapse	16	14	11	15	12	12	11	12	11	12	6	6	15	7	3	4	8	4	8	13	6	2
crashed by	24	26	21	26	22	24	19	29	28	20	10	19	13	15	14	15	11	9	12	19	8	11
caught in/between	103	105	113	91	96	101	91	87	86	92	70	66	60	68	67	67	51	58	70	68	53	41
cut	14	9	10	11	6	9	9	6	13	7	8	5	9	13	5	8	4	1	6	4	5	4
injury to the sole of the foot	1	1	0	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0
drown	0	0	0	-	1	-	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0
contact to high/low-temperature	11	18	28	16	18	25	19	22	15	16	17	19	18	14	21	21	9	19	14	28	13	20
contact to harmful substance	6	0	7	5	2	2	10	2	1	7	1	2	1	2	2	2	3	1	5	1	6	1
electric shock	2	1	2	-	1	3	1	1	2	1	0	2	3	1	0	0	0	0	0	1	0	1
explosion	6	1	1	1	2	1	0	5	5	3	3	3	1	1	0	8	0	0	0	2	1	2
burst	1	2	0	-	0	-	0	0	0	1	1	1	0	1	0	0	0	0	0	1	0	1
fire	0	0	0	1	1	1	1	1	2	1	1	0	0	1	2	0	3	2	0	3	0	0
traffic accident (public road)	0	2	3	1	1	6	1	1	5	3	2	2	3	4	2	1	2	4	0	1	1	2
traffic accident (others)	0	0	1	-	1	1	1	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0
reaction to motion/improper motion	13	15	13	14	15	11	17	14	13	13	7	8	9	4	11	13	5	8	15	14	10	14
others	0	2	1	4	1	2	2	1	0	2	2	0	3	2	2	1	0	1	0	3	2	4

unclassifiable	0	0	0	-	0	-	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	
total	320	305	337	304	283	302	283	287	316	301	199	226	227	226	202	219	173	177	207	262	178	171

Causal agents (middle) of industrial accidents in steel/iron/rolling products in 1999-2020

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
engine	0	1	1	-	0	-	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0
power transmission mechanism	4	1	1	6	3	-	6	3	2	5	1	1	3	6	2	2	3	1	4	4	3	0
woodworking machine	1	0	2	1	0	1	1	0	0	1	1	0	0	0	1	1	1	0	0	1	0	1
construction machine	1	1	0	3	3	3	4	1	1	4	5	3	1	4	1	1	2	1	2	0	1	2
metal manufacturing machine	40	47	43	33	27	46	34	37	32	35	22	21	26	30	30	26	14	23	25	20	15	16
general machine	30	28	32	21	27	18	15	27	25	18	17	20	16	12	9	18	14	13	18	20	19	9
mobile silviculture machine																	0	0	0	0	0	0
crane	29	26	33	26	35	22	23	22	24	10	15	16	24	18	13	16	12	15	10	29	11	9
conveying machine	24	22	24	24	24	29	30	31	29	42	26	24	15	25	21	19	15	18	16	17	10	11
vehicle	3	3	3	5	4	7	5	7	10	7	4	4	6	4	1	3	5	6	4	5	1	2
pressure vessel	0	0	0	-	0	-	2	0	1	0	0	0	1	1	1	0	0	0	0	1	0	0
chemical facilities	0	0	0	-	2	-	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1
welding equipment	1	4	5	3	0	6	7	5	4	4	3	3	3	3	3	3	0	1	0	2	1	2
kiln, caldron	5	6	6	6	5	9	2	12	9	9	9	9	6	5	11	2	4	6	9	2	7	9
electric equipment	2	1	1	1	3	4	1	1	1	1	0	2	4	0	1	2	1	1	0	3	0	1
human power machine, tools	5	8	9	10	5	13	6	7	17	11	5	6	8	9	8	4	6	2	5	6	5	8
tools	16	18	26	30	20	13	15	15	20	24	16	12	12	11	17	14	14	15	13	16	15	12
other equipments, facilities	6	15	9	12	11	10	25	6	4	12	5	12	9	14	11	7	10	8	9	17	7	12
temporary buildings,	40	30	42	35	25	32	38	36	39	43	23	33	27	37	28	30	32	33	31	42	28	28

establishments																							
hazards, harmful substances	7	6	10	10	7	5	6	3	6	9	5	3	2	1	5	10	6	3	7	9	7	2	
materials	82	59	69	52	58	60	44	51	72	44	31	42	42	29	23	38	24	19	32	45	22	22	
load	13	15	8	18	10	11	8	11	11	12	4	4	5	6	6	9	6	2	8	4	12	7	
natural environment	4	2	8	3	1	4	3	3	2	4	3	6	12	2	4	4	1	5	5	10	4	6	
other causal agent	3	6	3	3	7	7	0	1	3	2	1	1	2	3	0	1	2	0	2	5	2	3	
no causal agent	4	6	2	2	6	2	8	7	4	4	3	4	3	4	6	7	1	4	7	4	5	8	
unclassifiable	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2	0	
total	320	305	337	304	283	302	283	287	316	301	199	226	227	226	202	219	173	177	207	262	178	171	

Causal agents (small) of industrial accidents in steel/iron/rolling products in 1999-2020

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
engine			1		0		0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0
power transmission mechanism			1		3		6	3	2	5	1	1	3	6	2	2	3	1	4	4	3	0
circular sawing machine			1		0		0	0	0	1	0	0	0	0	1	1	1	0	0	1	0	1
band sawing machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wood planer machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hollow chisel mortiser, wood borer			1		0		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chamfering machine, router, woodworking milling machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw			0		0		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
other woodworking machines			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
leveling, transporting or loading machine			0		1		2	0	0	2	2	1	0	4	1	1	1	0	2	0	0	1
excavating machine			0		1		2	0	1	2	1	2	1	0	0	0	0	1	0	0	0	1

machine																0	0	0	0	0	0
other mobile silviculture machine																0	0	0	0	0	0
crane			29	31	19	21	22	8	13	15	21	18	12	16	11	15	9	27	10	9	
mobile crane			2	1	1	0	1	1	2	1	1	0	1	0	0	0	1	1	0	0	
derrick crane			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
elevator, lift			0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
cargo lifting appliance			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
gondola			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
lumberyard equipment, logging cableway			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
simple skyline yarding equipment																0	0	0	0	0	
other powered crane			2	2	3	0	1	1	0	0	1	0	0	0	1	0	0	1	1	0	
truck			8	6	7	8	9	9	7	7	6	6	6	6	5	4	4	5	1	2	
forklift			3	7	12	6	8	12	7	4	2	3	3	3	2	4	3	1	6	4	
railway equipment			2	0	0	1	2	3	0	2	0	2	3	2	0	2	1	0	0	1	
conveyor			10	9	10	8	7	13	10	8	7	9	5	6	5	6	4	7	3	2	
loader			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	
straddle carrier			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
rough terrain hauler			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other powered conveying machines			1	2	1	8	3	4	2	3	0	5	4	2	3	2	4	3	0	1	
cars, bus, motorcycle			2	4	4	7	10	6	4	4	6	3	1	2	5	6	3	5	1	2	
railway vehicle			1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	
other vehicles			0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	
boiler			0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	
pressure vessel			0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	
other pressure vessels			0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
chemical facilities			0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	
gas welding			4	0	4	2	3	1	2	1	3	1	1	1	0	1	0	1	0	1	

equipment																						
arc welding equipment			0	0		2	3	1	1	1	2	0	1	2	2	0	0	0	0	0	1	
other welding equipment			1	0		1	0	0	2	0	0	0	1	0	0	0	0	0	1	1	0	
kiln, caldron			6	5		2	11	8	8	8	9	5	5	10	2	4	4	7	2	7	9	
industrial dryer			0	0		0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	
other kiln, caldron			0	0		0	1	1	1	0	0	1	0	1	0	0	2	1	0	0	0	
transmission			0	1		0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	
electric power facilities			1	1		0	1	0	1	0	1	0	0	0	1	1	0	0	3	0	1	
other electrical equipment			0	1		1	0	0	0	0	1	3	0	1	1	0	1	0	0	0	0	
human power cranes			1	0		1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	
human power hauling equipment			0	2		1	2	5	3	2	1	3	1	5	3	1	1	1	3	1	3	
human power machine			1	0		0	1	1	1	0	0	1	0	0	0	2	0	0	0	1	0	
hand tool			7	3		4	4	11	7	3	5	3	7	3	1	3	1	4	3	3	4	
ladder			8	4		3	7	12	12	3	5	4	4	5	5	4	3	8	2	5	4	
slinging tool			13	11		4	3	4	5	7	3	4	1	6	5	3	5	4	7	5	2	
other tools			5	5		8	5	4	7	6	4	4	6	6	4	7	7	1	7	5	6	
other equipment, facilities			9	11		25	6	4	12	5	12	9	14	11	7	10	8	9	17	7	12	
scaffolding			0	0		1	2	2	1	1	0	1	1	1	0	1	0	3	0	0	0	
timbering			0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
stairs, landing stage			3	4		6	5	7	7	3	3	5	9	5	9	9	5	7	13	2	3	
opening			3	2		2	1	4	3	2	2	5	4	1	1	3	2	1	3	1	1	
roof, beam, haze, crossbeam, principal rafter			0	1		1	1	0	0	1	0	1	0	0	0	1	0	0	0	0	1	
working platform, boot board			9	5		3	6	7	8	3	4	5	5	4	8	1	7	2	4	8	5	
passage			16	6		17	12	10	12	8	16	5	9	9	4	12	11	12	10	10	8	
building, establishment			9	5		3	4	6	9	2	4	3	3	5	5	3	0	3	8	3	5	

19 years old or less	13	8	9	9	11	11	7	8	13	9	12	6	10	5	3	6	7	4	8	8	6	4
20-29	57	54	62	54	47	64	48	51	55	66	45	47	55	57	32	46	37	41	39	51	36	32
30-39	50	51	57	50	46	51	56	59	66	58	29	47	51	46	50	53	36	38	55	55	31	34
40-49	77	58	57	64	62	61	56	51	51	50	37	32	37	44	36	31	44	44	47	62	50	45
50-59	102	108	116	99	92	83	86	89	93	76	56	64	48	41	50	50	30	27	36	56	29	29
60 years old or more	21	26	36	28	25	32	30	29	38	42	20	30	26	33	31	33	19	23	22	30	26	27
total	320	305	337	304	283	302	283	287	316	301	199	226	227	226	202	219	173	177	207	262	178	171

Workers' number of workplace of industrial accidents in steel/iron/rolling products in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	46	48	65	45	49	33	33	40	43	34	23	15	17	19	22	21	18	14	13	24	18	14
10-29	65	76	71	47	46	62	53	47	48	56	33	34	37	37	35	26	29	25	28	37	29	29
30-49	45	27	44	40	22	40	28	22	39	28	16	19	18	29	13	22	12	24	14	25	16	19
50-99	25	31	38	48	39	32	19	28	33	37	23	32	35	23	26	29	16	21	31	36	18	19
100-299	71	63	62	70	67	67	76	76	76	76	56	57	57	66	52	49	52	50	51	73	44	43
300 workers or more	68	60	57	54	60	68	74	74	77	70	48	69	63	52	54	72	46	43	70	67	53	47
total	320	305	337	304	283	302	283	287	316	301	199	226	227	226	202	219	173	177	207	262	178	171

Month of industrial accidents in steel/iron/rolling products in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	24	25	31	20	30	23	25	25	32	27	19	22	15	20	20	12	19	24	16	21	20	16
February	28	30	20	22	13	27	24	29	22	22	18	22	21	20	16	19	10	11	16	18	9	19
March	28	28	39	24	26	25	17	25	33	23	15	22	25	21	13	17	14	16	13	21	12	14
April	25	18	35	29	23	32	19	25	16	40	14	14	21	20	20	18	14	20	14	23	21	17
May	22	27	22	26	15	26	27	27	23	26	22	10	17	21	18	21	13	13	24	19	23	10
June	25	25	42	23	21	28	27	19	31	30	13	21	20	19	20	14	20	10	15	22	14	10
July	32	24	20	22	19	24	24	20	23	23	23	26	20	16	16	19	14	15	17	25	21	21
August	31	26	30	32	25	25	26	23	33	20	11	15	17	14	22	17	7	11	17	24	19	19
September	23	29	23	27	39	20	34	27	24	24	19	20	25	14	10	26	23	15	21	32	11	15
October	23	37	27	25	28	28	21	24	32	14	18	23	18	16	13	23	16	15	15	27	5	9
November	29	23	27	23	22	16	23	20	24	28	9	17	14	23	19	16	11	13	16	15	10	15
December	30	13	21	31	22	28	16	23	23	24	18	14	14	22	15	17	12	14	23	15	13	6

total	320	305	337	304	283	302	283	287	316	301	199	226	227	226	202	219	173	177	207	262	178	171
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Prefecture of industrial accidents in steel/iron/rolling products in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	7	2	17		9		5	9	8	10	9	8	9	9	5	6	8	6	10	15	7	4
Aomori	1	0	4		0		1	2	9	3	1	0	0	2	1	2	2	1	3	1	1	1
Iwate	2	1	3		1		0	2	1	5	0	0	2	0	0	1	1	0	0	1	0	0
Miyagi	2	4	6		5		4	3	4	7	4	3	7	3	4	4	4	1	7	5	6	3
Akita	0	0	0		1		0	1	1	0	0	1	1	0	0	0	0	0	1	1	0	0
Yamagata	0	4	0		0		0	2	0	1	0	0	1	0	0	0	0	0	0	0	0	1
Fukushima	2	3	3		2		4	1	1	0	0	0	0	0	1	1	1	1	0	0	0	1
Ibaraki	11	10	13		10		7	8	8	14	6	15	14	8	8	9	14	10	15	12	7	3
Tochigi	7	4	11		6		4	3	7	3	0	1	5	6	4	1	0	2	0	3	3	2
Gunma	4	2	4		4		8	7	5	12	3	4	1	6	3	5	2	3	3	6	6	1
Saitama	15	17	22		10		12	13	12	8	10	5	1	13	4	4	3	4	4	6	9	5
Chiba	17	24	29		11		21	23	24	15	14	12	13	12	14	11	13	17	11	17	9	13
Tokyo	14	15	13		9		12	3	6	10	9	5	7	5	4	4	5	2	3	5	5	2
Kanagawa	20	17	12		16		9	16	7	10	2	8	12	9	3	10	5	3	13	9	6	7
Niigata	7	7	6		10		13	10	9	19	13	13	19	12	10	10	11	9	14	11	7	4
Toyama	11	5	4		1		2	7	7	8	4	4	0	2	3	3	3	3	4	3	2	6
Ishikawa	3	3	3		2		2	0	3	2	1	2	8	4	3	2	3	1	1	5	0	2
Fukui	2	2	3		2		1	2	2	2	4	1	1	3	1	1	0	0	1	3	3	1
Yamanashi	5	0	0		0		0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Nagano	2	0	0		0		1	2	2	1	0	0	0	0	0	1	0	0	0	1	0	0
Gifu	5	3	3		2		3	1	3	4	3	3	0	1	3	2	1	4	1	1	2	1
Shizuoka	2	3	1		1		2	0	1	3	3	2	0	1	0	0	0	0	2	2	1	7
Aichi	36	21	30		22		27	25	37	31	19	24	19	23	21	27	14	19	21	32	24	19
Mie	4	2	1		4		3	3	1	0	2	1	0	2	1	0	2	0	1	1	1	1
Shiga	2	1	1		5		1	4	9	2	4	1	5	0	1	2	1	4	0	2	2	0
Kyoto	1	3	0		2		1	2	6	3	1	2	3	1	1	0	2	6	2	2	3	2
Osaka	37	44	61		46		30	31	44	38	18	31	20	36	37	36	23	32	21	34	22	34
Hyogo	25	31	20		30		35	30	33	25	16	24	20	15	25	30	13	14	27	28	8	15
Nara	0	4	1		0		1	6	0	3	0	2	1	0	2	1	1	0	1	0	3	2
Wakayama	12	9	8		12		6	8	7	7	9	6	9	4	4	3	3	1	3	5	5	2
Tottori	1	0	2		0		1	0	1	0	0	1	0	0	0	0	1	1	0	0	0	0

Shimane	1	6	3	0	3	6	1	1	2	1	2	2	1	1	0	1	2	2	2	0
Okayama	7	9	8	5	17	10	12	9	12	11	9	6	3	7	4	4	7	11	7	5
Hiroshima	9	13	14	13	17	13	10	15	5	10	10	15	8	11	6	9	12	15	7	7
Yamaguchi	12	6	7	9	9	13	7	8	2	6	2	8	5	4	8	2	4	2	6	4
Tokushima	1	3	2	0	0	1	3	2	1	1	2	1	0	2	0	0	0	2	0	0
Kagawa	1	1	1	0	0	0	1	2	2	3	1	2	1	1	0	0	0	0	1	1
Ehime	0	4	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0
Kochi	0	0	3	3	0	0	0	0	0	0	2	0	0	0	0	2	0	2	1	0
Fukuoka	25	10	13	19	14	12	13	7	15	11	9	10	12	4	9	8	7	9	7	9
Saga	0	2	0	1	0	1	0	1	1	0	0	0	1	1	0	0	0	2	0	0
Nagasaki	2	1	0	0	1	2	0	1	1	0	1	0	1	0	0	1	1	0	1	0
Kumamoto	2	1	3	1	0	0	3	0	1	1	1	0	0	0	1	1	0	1	0	1
Oita	0	4	2	8	5	1	7	9	2	3	9	4	7	5	7	4	4	3	3	5
Miyazaki	1	2	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0
Kagoshima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Okinawa	2	2	0	0	0	3	0	0	0	0	1	1	0	6	0	0	0	1	0	0
total	320	305	337	283	283	287	316	301	199	226	227	226	202	219	173	177	207	262	178	171

Industrial accidents mean fatal and non-fatal injuries with work absence of 4 days and more. Data of 2011 year include Industrial accidents caused by Great East Japan Earthquake in 2011.

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

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Fatal accidents in steel/iron/rolling products in Japan in 1999-2020

steel/iron/rolling products industry Code No.011001

Type of fatal accidents in steel/iron/rolling products in 1999-2020

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
fall from height	2	0	5	1	0	1	1	0	1	2	0	0	0	2	0	0	2	3	0	3	0	0
falling to same level	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
crash	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
struck by flying or	1	0	0	1	1	1	1	1	2	0	1	2	0	0	0	0	0	1	0	1	1	0

construction machine	0	0	0	0	0	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1
metal manufacturing machine	0	0	0	2	1	0	1	0	2	1	1	2	0	1	1	1	0	0	0	0	1	0
general machine	2	0	0	1	4	1	0	1	2	2	0	1	0	1	0	1	2	2	1	0	1	0
mobile silviculture machine																	0	0	0	0	0	0
crane	4	0	2	3	3	1	1	2	1	0	1	0	1	0	1	1	0	4	0	0	2	0
conveying machine	3	2	1	2	0	2	0	6	4	3	2	1	0	4	1	3	0	4	1	2	0	1
vehicle	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	2	0	0	1	0	0	0
pressure vessel	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
kiln, caldron	0	0	0	3	0	1	0	1	6	0	0	0	0	1	2	0	0	1	0	0	0	0
electric equipment	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
human power machine, tools	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tools	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	0
other equipments, facilities	0	0	0	3	1	1	0	2	0	1	0	0	1	0	0	0	3	0	1	1	1	2
temporary buildings, establishments	3	0	3	1	1	0	2	0	0	1	0	0	1	1	0	0	1	0	0	2	0	0
hazards, harmful substances	2	0	0	0	1	1	4	1	1	1	0	0	0	0	0	0	0	0	1	1	3	0
materials	3	0	0	0	0	0	0	0	1	0	0	1	0	0	1	1	1	0	0	2	0	0
load	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural environment	0	1	1	0	0	0	2	1	0	0	0	1	6	1	1	0	0	0	0	1	0	0
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	17	4	10	16	11	10	12	15	17	10	4	7	11	10	8	9	7	12	5	12	9	5

stone, sand, substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other materials	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
machine/equipment as load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural ground, rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
standing tree	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
water	0	0	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0	0	0	0	0	0
abnormal environment	0	0	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
high/cold temperature environment	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
other environments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	17	4	10	16	11	10	12	15	17	10	4	7	11	10	8	9	7	12	5	12	9	5

Workers age of fatal accidents in steel/iron/rolling products in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
19 years old or less	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
20-29	3	0	3	2	1	0	2	2	4	2	0	3	4	2	0	3	2	2	0	6	1	0
30-39	2	0	0	1	3	1	0	1	2	2	1	1	0	1	4	0	0	3	1	2	1	3
40-49	6	0	0	3	2	4	3	1	3	1	3	1	0	6	1	1	3	3	4	2	6	1
50-59	6	4	4	7	3	4	6	7	8	2	0	1	4	0	2	3	2	1	0	2	1	1
60 years old or more	0	0	2	3	1	1	1	4	0	3	0	0	3	1	1	2	0	3	0	0	0	0
total	17	4	10	16	11	10	12	15	17	10	4	7	11	10	8	9	7	12	5	12	9	5

Workers' number of workplace of fatal accidents in steel/iron/rolling products in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	1	0	0	0	0	1	1	2	0	1	0	0	0	1	0	0	0	1	0	2	0	0

10-29	1	0	1	1	2	0	1	0	1	1	0	0	1	1	2	1	0	1	1	0	0	0
30-49	1	0	0	2	0	0	1	2	2	0	0	1	0	1	0	0	2	0	0	0	2	1
50-99	1	0	2	1	1	0	0	2	1	2	0	0	5	0	0	2	1	0	1	3	2	0
100-299	7	1	3	1	2	3	2	3	2	2	3	2	1	3	4	3	2	6	2	3	1	4
300 workers or more	6	3	4	11	6	6	7	6	11	4	1	4	4	4	2	3	2	4	1	4	4	0
total	17	4	10	16	11	10	12	15	17	10	4	7	11	10	8	9	7	12	5	12	9	5

Month of fatal accidents in steel/iron/rolling products in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	2	0	1	0	3	1	2	0	1	2	0	2	0	1	1	0	1	2	0	0	1	2
February	1	0	1	0	1	0	0	1	1	0	1	0	0	0	1	1	1	3	1	1	0	0
March	2	3	1	0	0	0	1	1	2	1	0	1	7	1	0	1	1	0	0	2	1	0
April	2	0	1	2	1	0	4	0	2	1	1	1	0	1	0	2	0	0	1	3	0	0
May	0	0	2	2	1	0	2	4	0	1	1	0	1	1	0	1	0	0	1	0	4	0
June	2	0	0	2	1	1	0	1	1	2	0	2	1	2	1	0	0	1	0	0	0	1
July	2	1	1	1	2	0	1	2	0	1	0	0	0	0	2	1	1	1	0	1	1	0
August	1	0	0	1	0	3	0	0	2	0	0	0	1	0	1	0	1	0	1	0	0	0
September	2	0	1	2	0	2	0	1	2	0	0	0	0	0	0	0	1	1	0	1	2	1
October	1	0	0	2	0	2	0	2	1	1	0	0	1	1	0	0	0	1	0	2	0	1
November	1	0	0	1	2	1	1	1	4	0	1	1	0	1	1	1	1	2	1	2	0	0
December	1	0	2	3	0	0	1	2	1	1	0	0	0	2	1	2	0	1	0	0	0	0
total	17	4	10	16	11	10	12	15	17	10	4	7	11	10	8	9	7	12	5	12	9	5

Prefecture of fatal accidents in steel/iron/rolling products in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	0	0	1	0	0	1	0	2	0	0	0	0	0	0	0	0	1	0	1	1	1	0
Aomori	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Iwate	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Miyagi	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	1	1	1	0
Akita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yamagata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukushima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ibaraki	2	1	0	0	0	1	1	0	0	1	0	0	0	0	1	0	0	1	0	0	1	0

Oita	0	0	0	0	1	0	1	0	0	1	0	0	2	0	1	1	0	2	1	0	0	0
Miyazaki	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Kagoshima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Okinawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	17	4	10	16	11	10	12	15	17	10	4	7	11	10	8	9	7	12	5	12	9	5

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

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