

Industrial accidents in nonferrous metal making in Japan in 1999-2020

nonferrous metal making industry Code No.0111

Type of accidents in nonferrous metal making 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	43	43	38	29	39	40	41	35	41	40	28	24	29	29	31	26	31	37	33	29	25
falling to same level	42	35	46	49	37	40	36	41	42	44	40	31	28	45	31	26	36	28	27	36	42	33
crash	22	19	23	19	15	19	14	26	19	21	12	16	9	14	13	6	10	11	12	23	10	18
struck by flying or falling object	63	73	59	47	42	65	48	52	59	46	34	33	36	38	34	34	34	38	32	29	21	24
collapse	12	14	13	6	14	3	11	12	21	14	10	10	5	14	10	6	15	8	5	6	10	5
crashed by	30	26	25	32	16	20	17	29	28	23	19	15	26	20	13	22	9	26	9	17	14	20
caught in/between	192	181	188	211	173	184	151	146	165	180	117	117	134	109	124	107	104	121	104	120	113	85
cut	43	44	42	42	34	36	44	38	25	25	24	20	28	28	23	27	24	25	22	20	16	19
injury to the sole of the foot	4	1	3	1	2	1	1	2	2	1	0	2	0	2	0	1	2	1	0	1	0	1
drown	0	0	1	-	0	-	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
contact to high/low-temperature	59	68	59	48	51	65	51	59	60	47	37	54	38	38	42	38	40	30	41	52	30	30
contact to harmful substance	10	8	6	9	11	6	15	10	6	6	10	6	12	7	4	3	3	6	3	11	3	2
electric shock	0	3	2	1	0	1	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	1
explosion	12	11	11	4	5	4	5	4	13	7	6	3	4	5	3	1	4	5	3	0	0	2
burst	0	0	0	7	2	-	0	1	2	0	0	0	0	1	0	0	0	3	1	2	0	0
fire	0	1	0	-	0	1	0	2	1	1	0	1	1	1	0	3	2	0	0	2	2	0
traffic accident (public road)	3	7	5	2	5	5	8	1	3	2	0	3	2	2	4	4	2	6	1	1	2	2
traffic accident (others)	0	0	0	-	0	-	0	0	1	0	0	1	0	0	0	1	3	0	0	0	0	0
reaction to motion/improper motion	30	36	36	30	21	18	42	43	37	42	22	23	20	19	28	13	15	21	27	29	38	41
others	2	3	1	-	5	2	1	2	1	1	0	3	2	3	2	0	3	1	2	0	3	1

unclassifiable	0	1	0	-	2	1	1	0	0	1	0	0	0	0	2	1	1	0	0	0	1	
total	560	574	563	546	464	510	485	509	520	503	372	369	369	375	360	326	333	362	326	382	333	310

Causal agents (middle) of industrial accidents in nonferrous metal making 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	0	0	1	0	-	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
power transmission mechanism	9	14	8	5	4	7	4	4	5	8	4	3	3	4	3	4	1	4	4	7	7	3
woodworking machine	4	5	6	7	7	7	4	3	3	3	2	2	3	4	2	4	3	2	3	3	1	6
construction machine	2	2	3	-	2	2	1	0	2	0	2	2	2	2	2	1	2	2	1	1	3	2
metal manufacturing machine	112	87	89	99	77	81	73	87	92	78	61	57	65	58	50	62	55	61	52	52	48	44
general machine	58	56	70	67	73	64	59	53	58	68	37	41	37	40	46	32	45	39	39	40	40	39
mobile silviculture machine																	0	0	0	0	0	0
crane	16	22	20	22	14	18	20	18	17	16	15	16	16	18	13	12	14	17	16	16	14	7
conveying machine	55	58	43	69	51	57	41	40	46	43	34	32	33	31	47	32	29	38	34	32	33	23
vehicle	2	3	5	3	5	5	10	2	5	4	2	3	2	2	1	4	3	5	0	4	3	1
pressure vessel	1	1	2	-	0	-	1	0	2	1	0	0	0	2	0	1	0	1	0	0	0	0
chemical facilities	1	2	0	2	1	-	3	2	2	1	0	0	0	0	1	0	0	4	2	3	0	0
welding equipment	1	3	1	-	1	1	0	0	1	0	2	1	1	4	1	1	0	4	0	0	1	0
kiln, caldron	20	24	23	16	21	23	18	18	31	24	15	20	12	14	14	12	15	9	16	12	11	13
electric equipment	2	3	4	2	1	3	1	0	1	1	3	3	0	0	0	0	1	0	0	1	2	2
human power machine, tools	16	21	25	13	20	27	19	19	21	20	12	12	13	17	16	17	5	11	6	12	12	11
tools	27	31	33	31	27	25	32	35	38	29	20	20	26	33	19	19	28	28	23	27	22	27
other equipments, facilities	20	15	13	25	8	10	15	13	18	18	18	8	13	10	11	14	8	8	12	15	13	12
temporary buildings,	44	53	52	49	42	41	38	54	31	59	45	38	40	40	38	32	35	30	40	49	32	31

establishments																						
hazards, harmful substances	19	15	16	13	13	13	17	17	10	12	12	9	20	13	8	11	8	11	6	16	8	5
materials	101	99	87	83	69	72	80	91	87	68	45	68	58	47	54	43	50	54	40	50	32	34
load	29	31	34	20	15	26	23	22	27	28	23	14	12	13	13	9	16	17	11	14	21	23
natural environment	10	9	6	8	4	13	4	8	6	6	9	7	3	9	9	6	7	4	8	11	7	3
other causal agent	4	3	6	2	2	3	5	6	3	3	0	4	2	2	1	3	2	3	4	4	3	2
no causal agent	7	17	17	8	6	9	15	15	14	12	11	9	8	11	10	6	5	9	8	13	20	22
unclassifiable	0	0	0	1	1	3	2	2	0	1	0	0	0	0	1	1	1	1	0	0	0	0
total	560	574	563	546	464	510	485	509	520	503	372	369	369	375	360	326	333	362	326	382	333	310

Causal agents (small) of industrial accidents in nonferrous metal making 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			0		0		0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0
power transmission mechanism			8		4		4	4	5	8	4	3	3	4	3	4	1	4	4	7	7	3
circular sawing machine			4		2		2	3	0	1	0	2	2	1	1	2	1	1	0	0	1	3
band sawing machine			2		1		2	0	1	2	0	0	1	1	1	1	2	1	1	2	0	1
wood planer machine			0		1		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
hollow chisel mortiser, wood borer			0		1		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
chamfering machine, router, woodworking milling machine			0		0		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
chain saw			0		0		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
other woodworking machines			0		2		0	0	1	0	2	0	0	1	0	1	0	0	1	0	0	0
leveling, transporting or loading machine			2		2		0	0	0	0	0	0	1	0	1	0	1	0	0	0	2	1
excavating machine			0		0		1	0	1	0	2	2	1	2	1	0	1	0	1	0	1	0

machine																0	0	0	0	0	0
other mobile silviculture machine																0	0	0	0	0	0
crane			18	12	15	13	15	16	13	15	15	15	11	11	12	14	16	14	12	7	
mobile crane			0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
derrick crane			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
elevator, lift			2	0	1	2	1	0	0	0	0	1	0	0	0	2	0	1	1	0	
cargo lifting appliance			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	0	
other powered crane			0	2	3	2	1	0	2	1	1	1	2	1	2	1	0	0	1	0	
truck			12	7	11	7	11	7	9	6	6	7	13	4	6	10	9	6	5	2	
forklift			16	25	20	22	23	26	10	10	17	15	12	13	14	20	12	19	16	12	
railway equipment			0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	
conveyor			12	16	10	8	7	6	11	13	9	6	19	10	9	6	11	5	7	7	
loader			1	0	0	1	0	0	0	1	0	1	1	2	0	0	0	1	0	0	
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			2	3	0	2	5	3	3	2	1	2	2	3	0	2	2	1	4	1	
cars, bus, motorcycle			4	5	10	2	5	2	2	3	2	2	1	4	3	4	0	4	3	1	
railway vehicle			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other vehicles			1	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	
boiler			0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	
pressure vessel			1	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	
other pressure vessels			1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
chemical facilities			0	1	3	2	2	1	0	0	0	0	1	0	0	4	2	3	0	0	
gas welding			0	0	0	0	1	0	2	1	1	3	0	0	0	0	0	0	0	0	

equipment																						
arc welding equipment			0	1		0	0	0	0	0	0	0	1	0	0	0	4	0	0	0	0	0
other welding equipment			1	0		0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	
kiln, caldron			21	19		17	17	27	23	15	20	11	13	13	12	12	6	14	12	9	9	
industrial dryer			2	0		0	0	2	0	0	0	0	0	0	2	0	0	0	0	1	0	
other kiln, caldron			0	2		1	1	2	1	0	0	1	1	1	0	1	3	2	0	1	4	
transmission			0	1		0	0	0	0	2	1	0	0	0	0	0	0	0	1	2	1	
electric power facilities			2	0		0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	
other electrical equipment			2	0		1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	
human power cranes			0	1		1	1	1	0	0	0	1	0	0	1	0	0	1	1	0	2	
human power hauling equipment			9	9		8	3	8	9	3	6	4	10	6	4	3	7	2	6	4	3	
human power machine			2	1		1	1	0	1	0	2	0	0	0	2	0	0	0	0	1	0	
hand tool			14	9		9	14	12	10	9	4	8	7	10	10	2	4	3	5	7	6	
ladder			9	3		12	14	11	9	10	11	9	7	3	5	8	9	10	11	10	7	
slinging tool			7	5		8	5	6	3	3	5	7	4	4	5	2	3	1	3	1	2	
other tools			17	19		12	16	21	17	7	4	10	22	12	9	18	16	12	13	11	18	
other equipment, facilities			13	8		15	13	18	18	18	8	13	10	11	14	8	8	12	15	13	12	
scaffolding			0	0		1	1	0	0	0	0	0	1	0	0	1	1	0	1	0	0	
timbering			0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
stairs, landing stage			8	6		8	6	5	9	12	2	3	6	6	6	8	6	11	11	7	4	
opening			2	0		1	4	2	0	2	0	1	1	1	0	0	1	2	0	0	1	
roof, beam, haze, crossbeam, principal rafter			1	1		0	1	1	2	0	0	2	0	0	1	1	0	1	0	0	1	
working platform, boot board			10	8		5	14	7	14	3	9	7	6	6	3	6	5	6	7	7	2	
passage			21	15		12	19	10	20	22	16	15	18	17	14	12	14	14	13	12	15	
building, establishment			9	6		8	4	6	9	2	6	10	4	5	5	4	2	5	10	3	4	

19 years old or less	19	20	14	23	17	20	17	14	13	16	9	9	13	8	10	2	10	11	8	11	8	6
20-29	108	128	112	88	96	106	103	96	100	108	78	65	68	82	62	67	66	77	70	71	61	42
30-39	97	105	106	114	108	114	111	114	113	109	88	92	97	84	85	62	84	82	62	66	66	70
40-49	119	114	119	96	78	96	78	103	122	94	66	88	95	78	85	86	71	88	85	108	84	73
50-59	161	162	163	165	119	114	110	121	110	112	83	70	54	70	70	55	57	52	61	83	65	77
60 years old or more	56	45	49	60	46	60	66	61	62	64	48	45	42	53	48	54	45	52	40	43	49	42
total	560	574	563	546	464	510	485	509	520	503	372	369	369	375	360	326	333	362	326	382	333	310

Workers' number of workplace of industrial accidents in nonferrous metal making 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	104	112	111	82	88	93	99	76	74	70	53	52	58	59	48	38	50	50	35	47	33	45
10-29	142	136	156	157	120	151	140	138	128	122	94	100	84	109	108	95	105	81	97	97	74	71
30-49	85	83	82	101	70	75	69	91	89	72	53	54	62	59	45	50	52	53	48	58	48	44
50-99	80	93	84	74	87	70	78	87	93	91	57	69	45	54	60	57	51	79	55	67	57	53
100-299	95	100	83	78	62	68	61	76	75	94	67	60	72	63	67	52	51	76	57	75	77	63
300 workers or more	54	50	47	54	37	53	38	41	61	54	48	34	48	31	32	34	24	23	34	38	44	34
total	560	574	563	546	464	510	485	509	520	503	372	369	369	375	360	326	333	362	326	382	333	310

Month of industrial accidents in nonferrous metal making 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	48	44	44	46	32	52	40	43	46	45	26	21	22	42	28	22	37	33	26	27	27	29
February	44	56	44	40	32	41	43	31	53	42	33	29	37	31	29	28	29	43	32	32	35	25
March	48	55	45	53	40	50	39	40	59	49	35	33	40	30	24	29	19	34	37	36	28	36
April	45	52	55	61	42	27	41	52	45	38	30	30	28	34	33	19	31	18	26	31	23	20
May	50	58	48	47	50	35	33	36	41	40	30	37	27	29	35	26	33	32	31	31	26	22
June	53	40	53	34	47	46	41	40	45	46	40	40	39	24	27	24	32	32	30	28	28	24
July	56	37	54	62	46	41	41	46	47	43	30	29	35	34	27	30	38	39	27	48	26	23
August	44	44	42	38	46	44	53	35	42	34	29	32	22	36	35	34	18	36	29	26	33	26
September	50	43	48	47	36	52	42	49	42	49	24	21	24	20	36	30	21	31	29	32	31	24
October	29	45	39	44	36	44	45	54	40	44	30	43	32	34	44	31	21	22	19	27	31	32
November	52	54	54	45	28	41	42	46	33	32	31	19	39	39	26	30	31	22	20	32	31	28
December	41	46	37	29	29	37	25	37	27	41	34	35	24	22	16	23	23	20	20	32	14	21

total	560	574	563	546	464	510	485	509	520	503	372	369	369	375	360	326	333	362	326	382	333	310
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Prefecture of industrial accidents in nonferrous metal making 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	1	4	1		4		4	0	2	1	3	3	1	4	1	1	1	1	8	3	2	2
Aomori	3	2	3		0		3	2	3	6	4	6	5	0	2	2	1	1	3	5	1	1
Iwate	2	3	1		3		2	2	5	6	0	4	3	3	2	3	0	2	6	2	2	2
Miyagi	8	2	7		9		5	10	2	5	5	7	4	2	8	3	8	7	0	4	4	5
Akita	6	10	6		2		3	6	8	3	5	3	3	5	2	4	3	4	3	0	6	8
Yamagata	10	1	7		3		8	5	6	7	2	4	2	2	4	5	3	4	8	6	3	4
Fukushima	14	15	15		17		8	11	15	9	4	6	5	9	17	10	8	3	6	7	6	5
Ibaraki	27	30	36		24		20	22	37	21	13	19	13	11	13	12	18	16	18	17	13	15
Tochigi	23	18	18		13		15	21	18	8	10	10	8	12	7	13	9	8	5	12	18	12
Gunma	14	8	12		5		16	16	14	12	5	9	9	9	7	6	9	9	5	11	8	5
Saitama	47	55	47		43		40	36	43	42	31	31	26	31	28	26	21	22	23	31	20	27
Chiba	17	14	13		9		8	12	10	15	11	12	21	11	12	12	13	13	13	12	12	11
Tokyo	28	12	17		14		10	14	10	14	10	3	6	7	10	10	6	8	3	11	7	8
Kanagawa	19	17	20		11		19	14	16	15	7	7	20	9	11	10	12	18	8	11	15	4
Niigata	6	14	11		7		10	13	8	13	7	8	10	15	9	5	13	7	7	5	11	10
Toyama	34	27	13		20		24	30	22	22	22	15	17	26	12	18	15	19	20	16	17	14
Ishikawa	0	5	2		3		1	0	1	1	1	2	3	2	2	0	3	1	1	0	1	1
Fukui	5	9	4		8		2	4	6	4	7	7	2	6	4	3	2	6	4	5	2	4
Yamanashi	2	6	6		6		5	4	1	3	3	3	3	2	2	2	1	4	3	1	2	1
Nagano	14	24	12		22		14	14	14	12	7	11	13	10	11	8	9	11	8	11	6	7
Gifu	15	18	16		17		22	18	14	22	10	10	7	12	12	9	12	10	9	14	9	18
Shizuoka	34	36	34		15		27	27	40	29	23	18	11	16	18	25	14	17	13	25	15	18
Aichi	39	52	59		34		39	43	43	32	38	30	35	28	29	22	30	36	27	26	27	28
Mie	17	19	16		21		13	8	15	16	6	15	6	13	13	8	9	9	9	4	9	11
Shiga	8	8	11		10		16	13	11	21	4	6	9	13	6	7	5	10	6	9	7	3
Kyoto	13	13	15		14		13	14	19	14	9	9	14	9	9	6	10	7	3	7	10	6
Osaka	65	50	52		40		45	56	51	58	35	35	42	41	34	28	41	33	34	47	28	26
Hyogo	24	22	22		21		19	17	23	22	29	13	20	18	17	16	13	13	9	14	12	10
Nara	1	1	1		2		3	5	1	2	6	5	1	1	2	5	2	3	3	4	1	0
Wakayama	1	1	1		0		1	1	2	0	1	0	0	1	0	0	1	1	1	1	0	0
Tottori	0	2	0		2		1	2	1	0	0	1	2	0	0	0	2	1	1	0	0	1

Shimane	0	0	0	0	2	1	0	0	0	2	0	0	0	0	2	0	0	0	1	0
Okayama	9	12	17	7	8	13	7	11	11	12	5	8	10	10	7	13	18	20	8	7
Hiroshima	9	6	9	11	14	16	10	10	8	13	6	8	11	2	5	9	5	1	10	7
Yamaguchi	10	10	4	1	6	5	9	8	5	3	4	3	6	4	3	7	5	5	8	5
Tokushima	1	3	0	2	2	3	1	1	0	0	1	0	0	1	0	0	1	1	0	1
Kagawa	5	4	7	8	2	1	4	4	3	1	4	4	3	2	0	3	0	3	0	2
Ehime	2	2	6	5	6	4	3	4	3	4	6	1	0	7	1	6	3	3	3	1
Kochi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	2
Fukuoka	13	13	22	15	8	11	14	14	14	14	10	11	17	13	12	11	13	15	13	9
Saga	0	1	3	0	4	1	0	0	0	0	0	1	1	0	0	0	1	0	0	0
Nagasaki	4	0	6	3	1	1	1	2	1	1	2	0	2	1	1	2	1	2	3	0
Kumamoto	5	21	5	7	6	7	2	4	2	1	3	4	0	5	3	2	5	4	7	4
Oita	4	2	2	2	3	2	4	5	6	3	1	2	2	1	2	2	4	3	1	2
Miyazaki	0	1	1	4	3	4	3	3	0	1	3	3	3	1	0	2	0	3	0	0
Kagoshima	0	1	2	0	2	0	1	1	1	2	3	1	1	0	2	0	1	1	4	1
Okinawa	1	0	1	0	2	0	0	1	0	0	0	1	0	0	0	1	0	0	1	2
total	560	574	563	464	485	509	520	503	372	369	369	375	360	326	333	362	326	382	333	310

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 nonferrous metal making in Japan in 1999-2020

nonferrous metal making industry Code No.0111

Type of fatal accidents in nonferrous metal making 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	1	0	0	0	1	0	0	0	1	1	0	2	0	0	1	0	0	0	0	1	1	0
falling to same level	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
crash	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
struck by flying or	1	0	2	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0

construction machine	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
metal manufacturing machine	0	0	1	0	0	0	0	4	1	0	0	0	0	1	1	1	0	0	1	0	0	1
general machine	3	1	5	1	1	3	2	2	2	3	0	1	4	1	1	3	2	0	0	0	1	0
mobile silviculture machine																	0	0	0	0	0	0
crane	0	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0
conveying machine	2	3	1	3	1	0	1	0	1	0	1	0	0	1	2	1	0	1	1	0	0	0
vehicle	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
pressure vessel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0
welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron	1	0	0	1	0	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0
electric equipment	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
human power machine, tools	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tools	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0
other equipments, facilities	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0
temporary buildings, establishments	2	2	0	0	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0
hazards, harmful substances	2	1	1	0	1	1	0	1	0	0	2	0	0	0	0	0	0	0	0	1	0	0
materials	1	0	1	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
load	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural environment	2	0	1	0	0	0	0	0	1	0	4	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	1	0	0	0	0	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	15	9	14	7	4	7	4	9	8	5	7	3	5	5	9	7	3	5	2	2	2	1

10-29	4	1	3	0	1	1	0	1	2	0	0	0	0	2	2	0	0	1	1	0	0	1
30-49	1	0	2	1	0	2	1	2	1	0	0	0	1	2	0	2	2	1	0	0	0	0
50-99	2	1	3	1	0	2	0	4	0	1	2	0	2	0	2	1	1	0	0	1	1	0
100-299	4	3	2	1	3	2	0	1	1	1	4	1	2	1	4	2	0	3	1	0	0	0
300 workers or more	4	4	4	3	0	0	2	0	3	3	1	1	0	0	1	2	0	0	0	1	1	0
total	15	9	14	7	4	7	4	9	8	5	7	3	5	5	9	7	3	5	2	2	2	1

Month of fatal accidents in nonferrous metal making 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	1	0	1	0	0	0	0	0	2	0	0	0	0	0	1	0	1	2	1	0	0	0
February	1	1	2	0	0	0	0	1	1	1	0	0	0	0	0	3	1	1	0	0	0	0
March	0	1	1	1	0	0	0	2	1	0	0	0	1	1	1	1	0	1	0	0	1	0
April	0	2	2	1	0	0	0	2	0	1	0	0	1	1	3	1	0	0	0	0	0	0
May	3	3	0	0	0	2	0	1	0	1	0	2	1	2	0	1	0	0	0	0	0	0
June	0	0	0	1	0	0	1	1	0	1	4	1	0	0	0	1	0	0	1	0	0	0
July	4	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
August	1	1	1	1	1	1	1	0	0	0	1	0	1	1	0	0	0	1	0	0	1	0
September	1	1	1	0	1	3	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0
October	1	0	2	0	1	1	0	0	0	0	0	0	0	0	2	0	1	0	0	1	0	0
November	2	0	3	1	0	0	1	1	3	0	0	0	0	0	1	0	0	0	0	0	0	1
December	1	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0
total	15	9	14	7	4	7	4	9	8	5	7	3	5	5	9	7	3	5	2	2	2	1

Prefecture of fatal accidents in nonferrous metal making 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aomori	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Iwate	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Miyagi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Akita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
Ibaraki	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0

Oita	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	1	0	1	0	0	0	0
Miyazaki	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagoshima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	15	9	14	7	4	7	4	9	8	5	7	3	5	5	9	7	3	5	2	2	2	1

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

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