

Industrial accidents in electrical appliance in Japan in 1999-2020

electrical appliance industry Code No.011402

Type of accidents in electrical appliance 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	27	28	23	24	19	30	21	20	18	21	14	20	21	10	11	13	11	15	16	21	9	14
falling to same level	34	24	43	48	39	39	34	40	34	40	31	26	42	33	29	36	27	35	40	49	37	19
crash	7	10	15	11	11	8	15	7	5	13	8	6	3	9	2	4	4	7	11	9	9	4
struck by flying or falling object	17	12	15	12	6	9	14	14	10	12	9	9	9	10	4	5	7	12	4	5	6	4
collapse	4	4	10	6	5	6	5	6	9	2	3	1	2	1	2	2	4	4	0	4	2	2
crashed by	7	6	10	9	8	7	6	10	4	6	4	4	4	1	3	5	6	5	8	4	7	5
caught in/between	82	63	75	80	62	67	67	49	52	60	30	29	38	31	40	22	30	24	33	25	28	19
cut	17	14	16	17	17	14	11	18	12	12	8	9	12	6	6	10	6	3	7	7	5	7
injury to the sole of the foot	1	1	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drown	0	0	0	-	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
contact to high/low-temperature	2	2	6	2	4	1	1	3	1	3	3	2	1	2	3	3	1	4	1	0	3	1
contact to harmful substance	0	2	2	-	2	1	2	6	1	2	4	1	0	1	0	1	0	0	1	0	2	2
electric shock	0	1	0	-	0	1	1	0	1	2	0	0	0	0	0	0	0	2	0	0	1	0
explosion	0	0	1	-	0	-	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
burst	0	2	0	-	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
fire	1	1	0	-	0	-	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1
traffic accident (public road)	7	3	6	3	8	3	7	7	6	9	7	33	4	3	2	1	3	3	0	1	2	1
traffic accident (others)	0	0	0	-	1	-	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0
reaction to motion/improper motion	25	22	16	16	13	23	20	21	27	29	10	19	26	16	20	15	20	30	17	20	22	18
others	2	1	1	3	2	1	4	0	2	0	0	0	3	3	1	0	1	2	0	3	1	1

unclassifiable	0	0	3	1	0	-	0	0	0	0	1	0	0	0	0	0	0	1	1	2	0	
total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98

Causal agents (middle) of industrial accidents in electrical appliance 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	-	0	-	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	4	0	2	2	1	1	2	3	0	2	3	0	0	1	1	0	0	0	0	0	0	1
woodworking machine	4	0	0	1	0	-	0	1	1	0	1	1	0	0	1	2	1	0	0	0	0	1
construction machine	0	0	0	-	0	-	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1
metal manufacturing machine	35	31	34	38	29	31	29	23	25	24	9	11	22	21	13	10	16	10	13	9	20	8
general machine	36	30	33	34	31	31	26	30	26	24	21	17	14	8	17	11	12	11	16	14	12	15
mobile silviculture machine																	0	0	0	0	0	0
crane	4	2	6	2	0	3	3	4	3	2	3	2	1	1	1	1	2	3	0	2	1	1
conveying machine	11	13	14	14	9	18	14	10	10	16	8	32	13	6	9	10	7	3	9	11	10	2
vehicle	6	2	10	4	11	3	9	11	4	13	6	6	5	4	2	0	3	3	2	1	4	1
pressure vessel	0	0	0	1	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	0	1	1	2	-	0	1	0	1	0	0	0	1	1	1	2	2	3	0	0	0
kiln, caldron	0	2	0	-	0	-	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1
electric equipment	0	1	1	1	2	1	0	1	1	3	2	1	1	0	0	0	0	2	0	2	1	1
human power machine, tools	10	8	12	11	12	8	11	6	9	11	6	7	13	4	9	8	3	8	7	6	8	7
tools	18	22	19	24	14	15	18	11	14	20	5	13	17	12	5	7	8	14	9	16	7	9
other equipments, facilities	6	6	9	5	3	8	3	8	4	7	1	2	3	6	5	5	4	4	7	5	1	4
temporary buildings,	45	23	49	48	40	49	39	37	30	35	38	27	30	31	20	34	28	38	36	37	33	20





machine																0	0	0	0	0	0
other mobile silviculture machine																0	0	0	0	0	0
crane			2	0	3	4	3	1	3	0	1	0	1	0	1	2	0	2	1	1	
mobile crane			0	0	0	0	0	1	0	0	0	0	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			3	0	0	0	0	0	0	2	0	0	0	1	0	1	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	0	
other powered crane			1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	
truck			4	3	6	3	3	5	4	29	9	1	4	4	2	1	5	1	2	2	
forklift			4	4	2	5	5	6	3	1	1	4	3	3	2	2	2	6	6	0	
railway equipment			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
conveyor			5	2	4	2	1	4	1	2	2	0	2	2	2	0	2	3	1	0	
loader			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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			1	0	2	0	1	1	0	0	1	1	0	1	1	0	0	1	1	0	
cars, bus, motorcycle			9	11	9	10	3	13	6	6	4	4	1	0	2	3	1	1	4	1	
railway vehicle			0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other vehicles			1	0	0	0	1	0	0	0	1	0	1	0	1	0	1	0	0	0	
boiler			0	0	0	0	0	0	0	0	0	0	0	0	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	
other pressure vessels			0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
chemical facilities			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
gas welding			0	1	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	

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



19 years old or less	3	6	4	9	9	4	8	3	4	6	3	3	1	1	1	2	1	1	3	1	1	3
20-29	47	39	56	36	33	42	33	38	35	40	20	31	22	28	9	14	26	25	20	22	16	18
30-39	38	49	51	54	43	49	56	55	41	58	30	42	42	31	37	24	16	27	20	34	21	19
40-49	51	39	56	41	48	36	47	43	38	39	36	33	46	31	35	33	26	38	36	34	30	20
50-59	69	50	60	75	52	60	47	54	46	48	32	37	39	24	22	34	31	37	41	43	45	27
60 years old or more	25	13	15	17	12	21	17	11	18	23	11	13	16	11	19	10	20	19	19	15	23	11
total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98

#### Workers' number of workplace of industrial accidents in electrical appliance 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	40	21	28	25	22	32	30	20	18	11	7	7	17	8	8	6	13	7	9	6	5	3
10-29	45	38	33	47	35	34	33	36	28	34	25	25	16	21	17	11	13	28	16	22	23	13
30-49	44	23	31	22	35	21	31	26	29	29	13	15	19	14	13	22	17	17	18	12	11	13
50-99	34	36	39	42	35	33	22	41	32	38	23	14	25	20	27	18	14	24	25	19	15	19
100-299	40	48	55	55	36	51	53	50	40	63	22	65	43	31	40	26	36	39	47	38	29	20
300 workers or more	30	30	56	41	34	41	39	31	35	39	42	33	46	32	18	34	27	32	24	52	53	30
total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98

#### Month of industrial accidents in electrical appliance 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	22	14	23	18	15	23	26	24	18	15	21	7	14	12	10	10	13	17	15	10	11	11
February	17	16	22	14	24	20	18	19	16	24	9	9	14	10	10	8	16	14	8	13	13	15
March	25	17	36	24	25	18	19	11	14	18	5	6	17	9	11	11	19	13	13	6	11	8
April	16	15	14	24	12	23	12	17	16	17	12	11	10	10	4	16	7	11	9	12	16	11
May	19	17	21	14	18	15	12	19	15	18	8	7	9	8	7	11	10	11	12	15	12	1
June	27	21	13	18	14	17	28	21	12	17	4	15	14	11	14	9	10	13	10	22	13	3
July	20	21	28	16	15	20	18	18	17	22	17	10	14	11	9	9	9	12	11	13	13	13
August	13	15	11	17	14	13	15	13	22	22	10	16	9	12	13	6	9	14	12	11	8	8
September	9	15	18	19	18	25	19	19	15	13	18	11	14	7	4	4	4	13	12	20	12	8
October	20	14	22	22	22	12	9	12	11	20	7	17	13	15	20	11	12	9	18	7	6	9
November	20	12	14	26	8	16	11	12	11	11	10	42	19	11	11	11	6	11	8	11	6	5
December	25	19	20	20	12	10	21	19	15	17	11	8	19	10	10	11	5	9	11	9	15	6



total	233	196	242	232	197	212	208	204	182	214	132	159	166	126	123	117	120	147	139	149	136	98
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Prefecture of industrial accidents in electrical appliance 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	1	0		1		2	3	1	0	1	2	0	1	0	0	1	1	0	1	0	0
Aomori	2	3	3		4		3	5	5	4	0	2	1	0	3	3	0	1	4	3	0	1
Iwate	0	1	2		0		2	2	1	3	0	1	1	0	0	0	0	0	0	2	1	1
Miyagi	5	3	1		1		2	1	1	0	0	3	0	0	0	1	0	5	3	0	2	2
Akita	2	4	2		2		2	4	1	1	0	0	2	0	1	0	0	1	2	2	1	2
Yamagata	8	6	4		4		5	2	6	6	3	1	6	2	2	5	5	5	4	2	5	3
Fukushima	4	6	3		6		8	6	9	9	6	5	6	6	7	2	3	11	4	7	8	2
Ibaraki	7	5	13		2		5	4	2	8	6	5	5	5	1	0	1	6	5	2	2	1
Tochigi	5	2	5		3		4	5	1	1	3	0	5	1	3	1	1	4	3	0	3	1
Gunma	12	6	8		8		8	3	6	5	3	4	4	2	3	7	6	9	6	8	2	1
Saitama	8	8	12		10		7	3	5	7	5	4	8	7	5	5	4	2	4	6	8	9
Chiba	6	3	6		4		1	0	2	4	1	0	1	4	2	1	0	1	0	0	2	1
Tokyo	12	8	10		5		6	11	3	3	5	3	6	1	4	1	3	3	2	1	3	2
Kanagawa	21	19	14		18		14	10	11	16	17	2	7	8	6	4	7	10	8	9	7	4
Niigata	14	10	12		3		8	4	7	8	10	6	9	7	7	8	3	5	7	3	5	4
Toyama	1	0	1		0		0	1	0	1	0	0	2	0	0	1	0	1	1	0	0	0
Ishikawa	2	1	2		1		2	1	0	1	2	2	4	0	0	1	2	0	2	4	2	4
Fukui	0	4	2		4		3	5	1	1	0	0	1	3	1	2	0	0	2	3	1	0
Yamanashi	1	3	0		0		1	1	0	0	1	1	0	1	0	0	0	0	0	1	0	1
Nagano	9	2	4		5		2	8	7	5	1	5	10	2	9	6	4	5	10	9	4	4
Gifu	2	3	2		2		3	3	3	3	0	2	3	6	1	1	2	0	1	2	1	1
Shizuoka	6	13	10		17		18	19	20	26	9	6	14	12	8	13	16	14	14	18	21	14
Aichi	6	8	5		5		12	9	3	3	4	4	4	7	7	11	6	2	6	6	7	9
Mie	7	6	9		5		13	12	14	13	3	38	11	8	8	4	9	5	7	8	6	0
Shiga	8	15	21		17		14	13	17	15	10	11	8	4	3	11	7	11	3	12	10	4
Kyoto	8	7	11		2		0	1	1	4	4	3	3	2	2	1	2	5	2	2	1	3
Osaka	31	15	26		31		17	26	26	22	12	26	21	11	13	13	17	5	10	10	11	6
Hyogo	12	7	17		11		11	7	4	13	6	5	5	10	10	4	7	9	9	5	6	6
Nara	2	2	1		4		1	4	1	4	2	1	1	1	0	1	2	1	1	0	1	1
Wakayama	0	0	1		0		2	0	0	1	1	2	1	1	2	0	0	0	1	0	2	0
Tottori	5	3	5		2		3	2	3	4	1	2	3	1	1	0	1	1	5	3	1	2





construction machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
metal manufacturing machine	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
general machine	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
mobile silviculture machine																	0	0	0	0	0	0
crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveying machine	0	0	0	0	0	0	0	0	0	0	0	7	0	0	1	0	0	0	0	0	0	0
vehicle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
other equipments, facilities	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
temporary buildings, establishments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hazards, harmful substances	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
materials	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural environment	0	0	0	0	0	1	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	1	0
no causal agent	0	0	0	0	0	0	1	0	0	0	0	0	0	1	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	1	3	0	0	0	1	1	0	1	0	0	7	0	0	2	0	0	2	0	1	1	0

















Oita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miyazaki	0	0	0	0	0	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	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	1	3	0	0	0	1	1	0	1	0	0	7	0	0	2	0	0	2	0	1	1	0

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

Return to [https://www.jisha.or.jp/english/statistics/2020e\\_industry.html](https://www.jisha.or.jp/english/statistics/2020e_industry.html)