

Industrial accidents in bridge construction work in Japan in 1999-2020

bridge construction work industry Code No.030105

Type of accidents in bridge construction work 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	93	90	103	87	74	56	46	57	64	59	43	55	44	42	49	46	55	33	45	32	36	34
falling to same level	26	22	18	17	11	13	11	10	10	11	10	8	14	14	12	11	6	12	16	6	3	11
crash	6	16	10	18	13	12	3	5	4	6	9	7	3	7	6	3	8	3	8	5	2	7
struck by flying or falling object	28	33	37	31	25	25	23	28	28	28	25	23	24	9	10	18	14	7	10	13	12	22
collapse	23	18	7	15	5	3	11	14	12	14	5	6	6	7	16	9	8	17	5	8	6	4
crashed by	15	25	24	21	15	14	17	12	9	5	16	10	10	12	16	14	9	10	7	14	7	13
caught in/between	40	34	28	46	38	29	32	23	25	29	18	13	22	15	13	17	19	21	21	20	14	10
cut	6	12	8	5	17	3	10	1	6	5	3	8	3	4	4	7	3	5	6	5	4	3
injury to the sole of the foot	0	0	0	-	0	-	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	1
drown	2	1	2	4	0	-	0	2	0	0	0	0	2	0	0	1	0	0	2	1	0	0
contact to high/low-temperature	2	2	0	7	2	2	1	0	1	5	2	7	1	1	2	2	2	1	3	3	2	1
contact to harmful substance	3	4	2	6	1	2	3	4	2	0	0	0	2	2	2	2	2	2	5	3	0	9
electric shock	0	3	2	1	2	-	0	0	1	1	0	1	0	1	0	0	0	0	2	0	0	0
explosion	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
burst	0	0	0	-	0	1	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0
fire	0	0	0	-	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0
traffic accident (public road)	16	22	10	11	9	19	9	10	15	10	7	8	11	3	19	0	8	8	9	21	11	9
traffic accident (others)	0	0	0	-	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
reaction to motion/improper motion	4	6	3	4	0	1	3	4	5	2	5	5	2	1	2	3	5	5	6	1	7	4
others	0	1	1	-	1	-	3	0	5	1	0	1	6	1	0	1	0	3	0	1	0	2

unclassifiable	0	1	0	-	1	-	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	
total	264	290	255	273	216	182	172	171	189	176	144	152	150	120	151	134	139	128	147	133	116	130

Causal agents (middle) of industrial accidents in bridge construction work 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	-	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	0	0	1	0	-	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
woodworking machine	3	6	4	7	7	1	6	0	3	3	1	6	1	3	0	5	0	2	1	4	1	1
construction machine	28	25	13	20	29	11	13	16	14	21	16	7	9	16	12	15	15	9	17	10	7	10
metal manufacturing machine	3	2	4	1	7	6	2	2	4	4	2	3	4	2	5	3	3	2	3	3	1	2
general machine	1	9	4	3	8	3	5	5	3	0	1	3	1	2	1	2	3	4	5	1	3	5
mobile silviculture machine																	0	0	0	0	0	0
crane	25	26	18	29	13	15	16	17	18	13	19	13	15	10	15	12	8	9	7	13	7	13
conveying machine	15	10	14	15	12	5	8	11	7	10	10	8	9	3	13	7	10	9	10	13	11	6
vehicle	14	21	15	8	8	20	10	9	14	5	7	7	8	4	16	2	9	7	7	14	8	9
pressure vessel	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
welding equipment	1	0	0	-	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0
kiln, caldron	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric equipment	1	0	1	-	2	1	0	0	1	1	0	0	0	1	1	0	0	1	0	0	0	0
human power machine, tools	2	6	8	4	4	2	2	5	1	1	6	3	3	6	0	4	2	3	1	2	4	6
tools	20	24	19	16	16	13	8	16	11	18	15	10	11	7	6	5	10	9	6	10	3	5
other equipments, facilities	2	2	3	1	0	2	2	1	1	4	0	3	3	0	2	2	2	0	1	1	2	1
temporary buildings,	103	97	105	97	70	62	52	59	69	65	37	58	50	40	56	51	53	46	47	35	33	35

establishments																						
hazards, harmful substances	3	4	1	8	0	3	1	1	4	1	1	1	2	2	1	2	0	2	5	2	12	9
materials	26	39	30	35	25	28	32	20	28	18	19	14	17	15	6	12	10	14	21	12	14	15
load	6	1	4	5	2	4	3	2	3	3	0	2	5	0	2	4	5	1	7	2	1	3
natural environment	10	15	12	21	9	4	5	5	7	6	6	10	8	9	13	4	7	6	6	9	3	6
other causal agent	0	1	0	1	1	-	2	1	0	1	2	1	3	0	0	2	0	0	0	0	1	2
no causal agent	0	1	0	1	2	1	3	1	1	1	0	2	0	0	2	2	1	4	2	1	5	2
unclassifiable	1	1	0	-	1	-	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
total	264	290	255	273	216	182	172	171	189	176	144	152	150	120	151	134	139	128	147	133	116	130

Causal agents (small) of industrial accidents in bridge construction work 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		2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
power transmission mechanism			0		0		0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
circular sawing machine			3		7		6	0	2	2	1	5	1	3	0	5	0	1	0	3	1	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			1		0		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
hollow chisel mortiser, wood borer			0		0		0	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	0	0	0	0	0	0	0	1	1	1	0	0
other woodworking machines			0		0		0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
leveling, transporting or loading machine			2		2		0	1	3	1	3	1	1	1	3	1	4	1	3	0	0	1
excavating machine			6		11		4	5	3	7	3	4	4	7	1	4	2	6	7	5	4	3

equipment																						
arc welding equipment			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
other welding equipment			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	
industrial dryer			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other kiln, caldron			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
transmission			1	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	
electric power facilities			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other electrical equipment			0	2	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	
human power cranes			1	1	0	2	1	0	2	0	0	0	0	0	0	0	1	0	1	3	0	
human power hauling equipment			1	0	1	0	0	0	0	1	2	1	0	1	0	0	0	0	1	0	0	
human power machine			1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
hand tool			5	3	1	3	0	1	4	1	1	5	0	3	2	3	0	2	2	3	0	
ladder			6	7	2	4	5	5	6	6	2	4	2	3	6	3	4	4	0	5	0	
slinging tool			9	6	1	7	1	7	4	1	7	3	1	2	4	3	1	4	2	0	0	
other tools			4	3	5	5	5	6	5	3	2	0	3	0	0	3	1	2	1	0	0	
other equipment, facilities			3	0	2	1	1	4	0	3	3	0	2	2	2	0	1	1	2	1	0	
scaffolding			36	28	16	28	32	25	14	32	25	15	22	23	20	17	13	13	16	11	0	
timbering			8	3	8	8	6	2	1	6	0	4	2	1	3	4	5	3	2	0	0	
stairs, landing stage			4	4	2	3	4	3	3	2	1	1	3	1	4	0	3	0	0	2	0	
opening			4	0	2	3	3	1	0	0	0	1	3	1	2	0	1	2	0	0	0	
roof, beam, haze, crossbeam, principal rafter			2	1	0	2	0	2	1	0	1	0	0	2	0	2	0	1	0	0	0	
working platform, boot board			20	5	6	2	5	4	4	2	4	4	4	4	3	2	8	2	0	5	0	
passage			6	1	5	3	3	5	5	2	5	3	4	5	4	3	4	3	3	6	0	
building, establishment			22	24	10	6	12	13	4	11	9	11	16	10	9	13	12	9	9	7	0	

19 years old or less	10	7	8	13	8	5	1	4	6	5	6	7	3	4	6	6	3	5	3	4	1	2
20-29	67	60	62	66	57	29	28	32	37	31	20	29	23	12	23	17	19	18	29	24	18	28
30-39	46	48	51	55	36	39	33	40	41	34	27	38	36	25	31	20	24	29	21	18	27	25
40-49	38	46	39	46	44	35	33	20	26	26	37	22	24	29	32	31	43	32	40	39	21	22
50-59	55	93	71	63	45	43	47	53	51	46	36	31	37	27	30	29	24	24	24	20	24	30
60 years old or more	48	36	24	30	26	31	30	22	28	34	18	25	27	23	29	31	26	20	30	28	25	23
total	264	290	255	273	216	182	172	171	189	176	144	152	150	120	151	134	139	128	147	133	116	130

Workers' number of workplace of industrial accidents in bridge construction work 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	111	107	111	107	98	65	55	79	88	64	55	65	66	54	54	53	61	64	45	58	39	41
10-29	105	123	86	98	84	73	86	72	71	78	63	59	56	52	53	54	55	48	68	51	48	53
30-49	35	29	28	40	21	31	16	14	20	25	14	13	17	8	19	20	15	9	16	14	18	24
50-99	9	22	17	19	11	9	14	5	6	8	5	12	10	4	15	4	8	5	15	7	8	8
100-299	4	8	13	8	2	4	1	0	4	1	6	3	1	2	10	3	0	2	2	2	3	4
300 workers or more	0	1	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	0	0
total	264	290	255	273	216	182	172	171	189	176	144	152	150	120	151	134	139	128	147	133	116	130

Month of industrial accidents in bridge construction work 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	25	25	26	19	25	41	9	15	8	12	18	17	14	21	9	12	8	5	17	8	6	9
February	24	34	24	27	16	10	21	10	13	21	14	9	14	9	7	13	10	14	14	11	5	10
March	34	27	24	31	24	25	12	16	23	10	13	19	8	5	17	17	6	13	12	12	7	14
April	21	19	17	17	17	10	8	12	15	9	10	10	13	9	7	9	10	20	9	5	11	11
May	10	19	21	15	12	6	15	8	9	14	15	12	11	9	6	8	13	11	6	15	8	12
June	14	17	18	11	15	16	17	7	16	11	9	8	9	7	13	9	11	7	8	23	6	9
July	16	28	19	23	13	6	12	18	12	19	14	9	6	9	16	10	13	5	14	7	13	9
August	18	14	21	20	19	9	13	12	13	26	11	8	11	11	10	6	6	9	8	11	14	7
September	32	19	12	24	23	16	15	15	21	19	11	10	8	9	23	5	10	12	13	7	7	18
October	17	33	28	30	21	16	14	27	19	10	9	9	16	8	18	17	12	17	15	14	11	11
November	30	22	21	33	15	10	18	14	15	14	5	20	24	9	15	14	20	4	21	7	20	13
December	23	33	24	23	16	17	18	17	25	11	15	21	16	14	10	14	20	11	10	13	8	7

total	264	290	255	273	216	182	172	171	189	176	144	152	150	120	151	134	139	128	147	133	116	130
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Prefecture of industrial accidents in bridge construction work 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	25	18	11		14		8	10	14	7	3	11	17	12	25	7	11	12	12	8	4	7
Aomori	3	3	6		2		4	3	5	1	3	2	8	4	4	2	2	0	4	1	6	4
Iwate	4	7	3		4		4	4	2	1	2	5	1	1	9	1	3	5	9	9	1	6
Miyagi	2	7	3		2		4	4	1	8	2	2	4	1	5	6	6	5	6	4	2	1
Akita	1	2	1		2		3	1	1	2	1	2	2	2	7	3	0	2	1	7	2	1
Yamagata	9	10	1		6		3	4	4	0	1	2	1	3	0	0	0	3	1	1	0	3
Fukushima	3	2	3		3		2	0	2	4	2	2	6	1	4	5	6	4	0	5	0	1
Ibaraki	0	6	3		6		4	2	0	1	0	3	0	4	3	5	4	3	2	0	1	3
Tochigi	4	2	6		1		2	1	2	1	1	1	0	0	0	1	3	1	2	0	0	1
Gunma	3	8	1		0		0	1	2	4	3	5	6	1	1	1	3	3	3	1	0	1
Saitama	6	3	5		2		2	3	3	8	6	2	0	2	2	6	3	2	4	3	2	0
Chiba	7	3	9		9		5	1	5	10	10	7	2	4	2	5	2	2	3	0	2	2
Tokyo	15	18	10		8		12	9	10	12	5	10	9	6	2	6	6	7	6	1	6	4
Kanagawa	15	7	9		7		11	10	24	6	5	2	10	6	8	4	6	7	8	8	8	6
Niigata	6	5	5		5		3	4	4	6	7	7	4	4	1	1	5	1	0	2	2	4
Toyama	3	0	4		5		2	1	1	1	4	9	9	1	3	3	4	1	1	1	2	8
Ishikawa	5	4	3		3		0	1	0	1	0	0	2	1	0	1	1	2	3	7	12	5
Fukui	2	1	3		5		4	1	1	2	1	3	1	2	1	1	1	1	0	3	5	6
Yamanashi	1	2	5		1		0	3	0	0	1	1	1	1	1	2	4	1	2	1	0	0
Nagano	5	5	4		2		2	5	2	3	6	2	0	2	3	3	8	2	5	2	0	2
Gifu	6	10	8		12		4	3	3	1	0	4	6	6	3	5	4	2	8	3	3	6
Shizuoka	7	16	23		14		10	14	8	10	12	5	4	4	5	6	7	6	6	5	13	10
Aichi	19	20	30		24		9	7	6	6	8	13	7	4	9	5	5	6	7	6	10	6
Mie	6	8	7		6		1	1	4	2	1	1	5	1	4	3	7	2	4	8	4	1
Shiga	4	2	1		3		4	4	3	3	3	0	1	3	0	3	0	1	0	4	0	2
Kyoto	3	5	3		3		3	7	2	4	5	1	0	2	3	1	4	0	2	3	0	2
Osaka	8	8	2		8		0	3	4	13	5	4	8	2	2	5	3	4	3	3	1	4
Hyogo	12	14	10		3		3	3	9	3	4	8	6	4	8	4	2	13	3	1	0	2
Nara	2	3	2		1		5	4	1	3	1	1	1	5	1	2	0	0	2	0	0	1
Wakayama	2	5	5		5		5	10	3	0	6	3	7	1	1	7	5	1	2	1	1	3
Tottori	7	2	2		3		5	1	1	2	1	0	0	1	1	1	1	1	4	0	1	0

Shimane	3	6	6	1	0	1	3	3	2	0	0	0	1	0	1	1	0	1	0	2
Okayama	3	3	4	0	0	1	2	1	1	2	0	4	2	2	0	0	1	2	1	2
Hiroshima	3	7	7	8	5	7	5	2	6	3	2	1	2	3	1	2	2	3	3	2
Yamaguchi	10	1	3	1	4	3	6	10	1	4	1	1	0	2	2	1	4	1	2	3
Tokushima	4	4	2	1	0	1	1	3	0	5	2	0	2	4	3	2	1	2	0	4
Kagawa	2	4	1	0	2	4	2	1	0	0	0	3	1	1	0	2	0	0	0	1
Ehime	6	8	5	3	0	1	2	1	2	1	1	4	1	0	0	0	1	2	1	0
Kochi	3	3	3	1	6	5	5	2	1	1	1	1	1	1	3	0	1	0	0	1
Fukuoka	10	9	9	10	13	9	15	10	8	3	3	4	7	5	4	4	4	6	3	4
Saga	1	4	1	2	0	1	3	2	1	1	0	0	2	1	0	3	1	1	2	1
Nagasaki	3	5	2	5	2	2	3	3	2	1	1	0	1	1	2	2	1	4	4	3
Kumamoto	1	6	2	3	6	3	5	2	1	3	0	0	2	3	2	3	1	2	2	5
Oita	8	6	4	4	2	3	4	3	3	1	3	3	4	1	1	0	6	9	6	0
Miyazaki	2	5	7	2	3	1	1	5	2	4	3	2	2	1	0	2	4	0	2	0
Kagoshima	8	12	10	3	1	3	4	1	3	2	3	4	5	3	0	4	2	2	0	0
Okinawa	2	1	1	3	4	1	1	2	2	3	2	2	0	1	4	2	5	0	2	0
total	264	290	255	216	172	171	189	176	144	152	150	120	151	134	139	128	147	133	116	130

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)

Return to https://www.jisha.or.jp/english/statistics/2020e_industry.html

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Fatal accidents in bridge construction work in Japan in 1999-2020

bridge construction work industry Code No.030105

Type of fatal accidents in bridge construction work 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	15	12	5	6	7	8	5	4	2	5	1	12	5	6	2	4	3	3	8	3	2	4
falling to same level	0	0	0	0	0	0	0	0	2	1	0	0	1	1	0	2	0	0	0	0	0	0
crash	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0
struck by flying or	1	3	2	1	1	1	0	1	0	2	1	1	1	0	0	0	1	0	1	3	0	3

construction machine	1	3	2	2	2	1	0	1	1	3	2	0	1	3	0	1	0	0	3	0	1	1
metal manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
general machine	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0
mobile silviculture machine																	0	0	0	0	0	0
crane	3	4	3	2	0	0	1	1	3	0	1	0	0	1	0	3	0	0	0	0	0	0
conveying machine	1	0	2	0	2	1	0	0	0	0	1	0	0	1	0	0	2	1	3	3	1	1
vehicle	0	3	3	0	1	3	0	1	0	0	0	0	2	0	2	0	0	0	1	1	1	1
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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
tools	1	1	1	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0	0	1	0	0
other equipments, facilities	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
temporary buildings, establishments	18	9	3	7	9	7	2	4	2	5	2	12	6	5	3	5	3	5	6	4	2	2
hazards, harmful substances	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
materials	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	
load	1	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
natural environment	1	4	0	4	0	0	1	1	0	2	0	0	5	0	0	0	1	1	1	1	0	1
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	1	0	0	
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
total	27	25	15	17	14	14	6	12	6	11	7	13	17	10	5	9	7	8	15	13	5	9

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	1	0	1	1	0	0	0	0	0	0	0	1	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	1
natural ground, rock	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0
standing tree	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
water	1	1	0	1	0	0	1	0	0	0	0	0	4	0	0	0	0	0	0	1	0	0
abnormal environment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
high/cold temperature environment	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
other environments	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
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	1	0	1	0	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
total	27	25	15	17	14	14	6	12	6	11	7	13	17	10	5	9	7	8	15	13	5	9

Workers age of fatal accidents in bridge construction work 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	2	0	0	1	0	0	1	0	2	0	2	0	1	1	1	0	0	1	0	0	0
20-29	2	3	1	2	0	3	0	2	1	2	1	4	1	1	0	0	1	0	1	3	1	2
30-39	4	5	3	4	4	3	2	4	0	2	4	3	4	1	1	3	2	4	2	1	1	1
40-49	2	6	3	4	1	2	0	1	1	1	0	3	3	0	0	2	3	2	3	4	0	2
50-59	15	2	5	5	3	3	4	4	3	2	1	1	6	3	2	1	1	2	5	3	1	1
60 years old or more	4	7	3	2	5	3	0	0	1	2	1	0	3	4	1	2	0	0	3	2	2	3
total	27	25	15	17	14	14	6	12	6	11	7	13	17	10	5	9	7	8	15	13	5	9

Workers' number of workplace of fatal accidents in bridge construction work 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	11	10	7	9	6	5	2	7	3	3	2	6	5	2	1	2	2	5	8	3	2	4

Tochigi	1	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gunma	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Saitama	0	0	0	0	1	0	0	0	0	2	0	0	0	0	2	0	0	1	1	1	0
Chiba	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
Tokyo	3	0	1	1	1	0	1	0	0	0	2	2	2	0	0	0	0	0	1	0	0
Kanagawa	2	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	1	0	1
Niigata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Toyama	0	0	1	1	0	0	0	0	0	1	3	4	0	0	0	0	0	0	0	1	0
Ishikawa	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Fukui	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Yamanashi	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Nagano	0	0	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Gifu	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0
Shizuoka	0	0	0	4	1	0	1	0	2	1	1	1	0	0	0	1	0	0	1	0	1
Aichi	2	2	1	1	4	4	0	1	0	1	0	1	0	0	2	0	0	1	1	0	0
Mie	1	2	2	1	0	0	0	0	1	1	0	0	0	0	1	0	1	0	0	1	0
Shiga	1	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Kyoto	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0
Osaka	0	1	0	1	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	1
Hyogo	1	4	0	1	0	1	0	1	0	0	0	0	0	1	0	0	3	0	0	0	0
Nara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Wakayama	1	0	0	0	0	0	0	4	0	0	0	0	0	1	0	0	0	0	0	0	1
Tottori	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shimane	0	0	1	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
Okayama	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Hiroshima	0	0	1	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0
Yamaguchi	1	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0
Tokushima	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Kagawa	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Ehime	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kochi	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukuoka	0	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0
Saga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nagasaki	0	1	0	0	0	2	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0
Kumamoto	0	1	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	1

Oita	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Miyazaki	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0
Kagoshima	1	4	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	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0
total	27	25	15	17	14	14	6	12	6	11	7	13	17	10	5	9	7	8	15	13	5	9

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

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