

Fatal accidents in construction in Japan in 1991-2020

construction industry Code No.03

Type of fatal accidents in construction in 1991-2020

Type of accidents	1991	1992	1993	1994	1995	1996	1997	1998	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	479	426	411	398	425	418	373	332	325	301	269	256	247	260	203	190	207	172	147	159	160	157	160	148	128	134	135	136	110	95
falling to same level	27	26	22	23	38	26	22	14	22	21	17	15	13	13	11	6	10	6	9	11	6	9	9	10	11	5	7	6	6	6
crash	4	5	0	2	4	2	5	2	5	2	5	3	3	5	2	0	2	1	3	1	1	2	3	2	0	1	0	1	1	2
struck by flying or falling object	66	58	60	53	68	54	57	50	44	38	33	37	26	31	28	35	30	33	21	20	13	16	20	18	25	15	19	24	18	13
collapse	120	105	102	90	107	112	71	61	77	65	64	72	59	54	39	50	39	45	41	27	28	37	36	30	20	27	28	23	34	27
crashed by	56	64	60	55	58	76	52	33	57	62	45	32	23	37	38	39	32	33	26	19	22	32	27	26	29	22	23	18	26	13
caught in/between	89	93	107	93	96	107	82	74	92	76	66	66	58	51	50	45	44	38	40	35	29	35	19	38	34	19	28	30	16	27
cut	1	2	3	5	4	7	1	2	3	5	2	2	1	1	5	2	3	2	1	3	2	3	3	3	2	0	0	3	1	3
injury to the sole of the foot	0	0	0	2	2	2	2	2	1	0	1	1	1	1	1	1	2	0	0	2	1	0	0	1	0	1	0	0	0	0
drown	23	14	16	16	12	13	15	11	9	6	6	10	9	10	8	7	5	16	10	5	111	13	4	15	4	5	8	13	4	5
contact to high/low-temperature	10	4	5	2	24	5	14	7	14	16	18	17	9	11	7	15	8	9	5	19	9	11	10	6	12	7	8	11	10	9
contact to harmful substance	9	12	12	14	20	14	7	10	6	10	5	3	7	5	3	10	6	9	2	9	7	2	4	6	7	3	3	1	2	5
electric shock	36	27	21	29	19	21	26	23	23	15	15	11	4	18	21	12	9	15	8	6	4	7	1	9	8	8	5	5	2	3
explosion	5	13	9	5	0	4	0	1	2	0	0	2	0	5	3	0	2	2	0	2	0	2	1	2	1	0	0	1	1	2
burst	0	0	0	1	0	1	0	0	2	1	1	0	0	6	1	0	0	2	1	1	1	0	0	0	0	1	0	0	0	1
fire	7	6	13	23	8	8	11	3	3	6	6	1	7	0	1	13	7	4	8	4	0	1	3	5	6	1	1	2	2	1
traffic accident (public road)	100	122	98	103	126	117	96	98	96	104	87	66	70	74	60	63	48	37	39	39	51	29	33	45	28	39	50	31	27	37
traffic accident (others)	9	8	10	7	2	10	7	0	5	0	1	7	2	1	4	2	2	1	5	1	1	2	2	1	0	0	1	0	1	1
reaction to motion/improper motion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
others	5	7	2	17	6	4	5	1	5	3	3	4	9	10	12	16	4	4	3	1	63	9	6	11	9	6	5	3	7	8
unclassifiable	1	1	2	4	2	0	2	1	3	0	0	2	0	1	0	2	1	1	2	1	1	0	1	1	3	0	2	1	1	0
total	1,047	993	953	942	1,021	1,001	848	725	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258

Causal agents (middle) of fatal accidents in construction in 1991-2020

Causal (M) agents	1991	1992	1993	1994	1995	1996	1997	1998	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	0	0	1	1	0	1	0	0	0	1	0	1	2	0	3	0	0	1	0	0	0	0	1	0	0	1	0
power transmission mechanism	0	1	0	0	1	1	1	0	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0
woodworking machine	1	4	2	3	3	7	1	2	1	2	2	2	1	1	3	1	3	4	1	1	1	1	3	3	1	0	0	1	2	1
construction machine	141	131	153	132	141	139	115	100	126	118	88	78	81	71	68	71	55	64	58	49	38	50	41	50	30	38	39	38	31	37
metal manufacturing machine								3	2	1	0	2	2	0	0	1	0	0	0	2	1	1	0	1	0	2	0	0	0	0
general machine	3	4	5	7	5	4	6	3	6	6	4	5	1	5	5	5	3	1	4	3	6	4	3	4	4	2	3	4	1	4
mobile silviculture machine																									1	1	3	0	1	0
crane	65	59	59	53	61	61	38	47	27	41	38	23	27	24	28	21	26	11	17	16	18	21	15	23	20	13	13	18	16	12
conveying machine	104	98	105	98	103	105	85	90	93	90	80	71	53	71	58	53	54	38	41	39	30	37	25	33	32	34	44	28	27	25
vehicle	65	81	60	64	68	82	69	47	65	59	48	46	39	40	42	38	21	23	25	23	35	20	21	30	21	18	26	17	15	24
pressure vessel	0	9	0	2	2	1	0	0	0	2	0	3	0	6	1	0	0	0	0	3	1	0	0	0	1	1	0	0	0	0
chemical facilities	0	2	6	1	0	0	1	1	0	0	0	1	0	1	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	0
welding equipment	3	1	3	2	5	1	5	3	1	0	2	1	1	2	1	1	1	2	3	5	2	0	0	2	4	0	1	3	1	1
kiln, caldron	1	2	0	1	1	1	0	0	1	0	0	5	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
electric equipment	31	27	24	31	18	21	27	22	25	12	14	10	3	14	16	9	10	17	8	7	3	6	4	10	8	11	7	5	2	3
human power machine, tools	5	2	0	3	1	1	2	1	3	3	1	1	3	1	1	2	2	2	2	0	2	1	1	0	1	0	1	2	1	2
tools	44	46	57	35	47	58	48	40	39	32	40	28	31	32	27	31	22	22	21	26	19	18	23	18	18	14	17	17	14	9
other equipments, facilities	5	6	10	2	5	6	9	1	7	5	3	3	3	4	7	4	1	5	6	2	3	3	1	6	2	3	1	1	2	6
temporary buildings, establishments	418	373	320	334	371	346	311	257	264	239	224	220	208	215	156	164	173	159	124	130	127	137	124	124	111	107	113	116	91	77
hazards, harmful	15	17	15	22	16	10	8	10	9	9	2	3	10	7	4	10	14	5	5	6	3	5	5	6	9	3	1	2	3	4

substances																														
materials	21	13	16	14	19	20	19	9	17	12	8	14	6	14	12	10	10	10	7	3	7	7	5	5	2	1	7	5	3	8
load	8	6	5	7	12	9	12	7	10	6	8	4	4	5	7	4	5	5	1	4	2	4	7	1	4	4	3	5	8	4
natural environment	109	110	106	125	133	123	87	80	91	90	78	81	69	75	54	70	53	53	42	43	204	43	56	46	44	34	36	42	42	34
other causal agent	3	0	4	1	4	4	1	0	1	1	4	1	4	3	4	4	0	0	1	1	0	0	0	3	2	1	0	0	0	4
no causal agent	0	0	0	1	0	0	0	0	1	0	0	0	0	1	1	5	4	2	3	1	6	8	5	7	9	5	6	4	8	3
unclassifiable	4	1	3	4	5	0	2	2	4	3	0	4	0	1	1	2	2	1	2	1	1	1	2	3	3	1	2	0	0	0
total	1,047	993	953	942	1,021	1,001	848	725	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258

#### Workers age of fatal accidents in construction in 1991-2020

Age	1991	1992	1993	1994	1995	1996	1997	1998	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	25	30	25	25	15	20	17	17	8	17	12	6	13	11	9	6	6	8	6	11	5	8	12	10	6	4	6	3	2	5
20-29	104	109	102	94	118	125	110	94	108	94	82	100	79	63	62	61	56	36	51	45	46	31	30	35	32	34	37	33	30	23
30-39	124	116	112	88	112	103	91	88	76	75	93	75	56	81	62	77	72	66	53	57	67	60	43	53	33	45	37	40	30	30
40-49	244	231	191	193	208	175	148	134	150	122	100	81	80	84	74	66	54	80	53	44	90	53	51	69	58	58	75	48	45	54
50-59	298	281	262	250	294	285	231	186	231	206	190	179	175	187	162	173	129	106	100	96	145	91	73	81	73	60	59	61	53	59
60 years old or more	252	226	261	292	274	293	251	206	221	217	167	166	145	168	128	125	144	134	108	112	157	124	133	129	125	93	109	124	109	87
total	1,047	993	953	942	1,021	1,001	848	725	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258

#### Workers' number of workplace of fatal accidents in construction in 1991-2020

Workers scale	1991	1992	1993	1994	1995	1996	1997	1998	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	627	568	567	536	618	529	443	387	353	347	309	325	277	325	258	295	266	235	195	204	281	203	195	186	183	146	194	166	151	145
10-29	289	309	245	290	275	292	242	218	294	253	211	173	178	190	161	152	136	132	109	121	152	114	96	128	99	98	92	97	84	79
30-49	67	52	79	61	66	95	77	64	88	68	70	63	56	44	47	31	35	36	45	21	51	28	22	36	25	33	21	20	18	26
50-99	46	35	37	25	45	51	44	36	40	38	33	26	30	18	22	18	14	17	18	13	14	10	14	18	16	10	12	18	7	5
100-299	12	26	23	26	13	30	37	16	16	21	19	16	7	12	7	9	8	9	3	6	12	12	13	8	4	7	3	8	8	2
300 workers or more	6	3	2	4	4	4	5	4	3	4	2	4	0	5	2	3	2	1	1	0	0	0	2	1	0	0	1	0	1	1
total	1,047	993	953	942	1,021	1,001	848	725	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258

#### Month of fatal accidents in construction in 1991-2020

Month	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	83	76	80	64	61	79	59	48	69	61	40	47	43	41	36	34	34	36	27	38	27	28	29	24	30	23	22	26	15	23

February	96	100	84	77	101	75	81	63	65	64	42	53	46	49	42	52	45	30	41	33	27	44	18	39	22	27	31	24	35	25
March	108	76	93	89	95	99	76	70	75	68	70	52	55	57	52	42	35	33	32	27	190	29	21	41	32	25	26	23	22	28
April	72	73	60	85	84	72	72	63	67	50	55	56	42	26	44	39	26	25	16	21	22	25	18	22	24	25	24	12	16	21
May	75	66	55	52	77	65	67	46	51	41	50	29	48	27	27	24	35	33	16	24	30	26	28	32	25	16	24	20	19	16
June	75	76	90	79	72	82	57	61	62	58	44	29	28	37	35	35	40	25	31	25	24	32	26	27	23	16	19	31	14	18
July	101	84	75	87	95	88	80	77	59	76	68	65	61	67	37	54	43	49	31	37	27	38	32	43	26	22	41	36	28	20
August	86	79	74	84	75	92	74	65	70	77	60	55	61	58	45	51	37	43	38	40	27	31	36	38	40	26	29	20	21	23
September	96	100	60	76	97	88	59	62	69	47	48	38	38	74	29	44	52	44	30	29	28	25	29	26	34	36	29	38	19	27
October	88	89	107	84	79	77	80	50	56	59	62	56	46	70	40	39	45	38	37	29	31	30	30	32	35	28	25	36	27	18
November	82	101	89	95	88	92	69	64	68	67	37	50	48	47	63	49	30	43	36	29	39	33	40	26	21	25	32	23	31	17
December	85	73	86	70	97	92	74	56	83	63	68	77	32	41	47	45	39	31	36	33	38	26	35	27	15	25	21	20	22	22
total	1,047	993	953	942	1,021	1,001	848	725	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258

Prefecture of fatal accidents in construction in 1991-2020

Prefecture	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	47	56	56	61	56	66	39	32	59	54	39	40	30	39	30	29	26	28	30	22	10	27	22	22	25	30	23	17	20	14
Aomori	8	11	12	14	16	14	15	9	7	10	12	6	9	5	7	6	5	7	4	5	6	7	2	7	3	2	2	3	4	2
Iwate	7	10	11	12	15	14	12	11	9	9	11	12	12	10	7	2	4	7	6	1	64	6	4	10	8	7	8	9	6	5
Miyagi	20	17	20	17	21	19	15	8	18	24	10	7	11	4	8	8	4	9	7	6	101	9	9	7	5	5	5	7	7	3
Akita	12	15	7	15	15	15	9	13	13	6	5	4	5	5	10	7	6	5	6	3	2	13	5	11	5	6	7	1	2	
Yamagata	8	7	10	10	4	9	5	4	12	6	9	7	1	5	3	6	1	3	2	5	2	8	6	8	2	3	2	4	4	4
Fukushima	25	23	17	22	27	27	22	13	20	11	13	16	12	11	15	7	8	12	8	6	35	11	17	11	14	10	8	7	7	13
Ibaraki	39	15	24	19	30	32	28	16	14	11	18	27	12	17	12	9	19	9	8	7	16	11	12	10	12	11	8	10	8	4
Tochigi	17	18	14	15	20	25	13	12	14	12	12	9	7	12	7	8	4	6	4	9	8	5	2	6	5	4	3	1	3	3
Gunma	22	18	15	13	17	14	14	12	14	5	13	10	8	9	9	5	8	7	6	6	3	5	4	12	3	3	3	6	0	2
Saitama	42	29	22	36	31	24	23	25	19	24	24	23	20	25	21	16	11	18	16	12	9	13	12	16	15	6	13	12	10	8
Chiba	33	50	38	36	52	32	34	24	24	23	27	31	27	28	15	27	20	17	17	17	11	14	17	24	15	12	10	10	12	12
Tokyo	74	69	71	52	53	65	59	46	54	57	52	40	33	41	37	41	42	28	20	25	26	26	26	37	29	25	28	19	13	14
Kanagawa	48	63	53	49	54	44	45	29	29	37	28	17	30	36	23	21	23	14	22	17	23	16	13	12	10	9	6	10	10	14
Niigata	33	21	21	26	28	42	23	11	26	9	12	13	11	16	22	14	11	13	11	8	6	13	13	5	5	5	3	9	8	7
Toyama	19	16	15	17	23	17	15	14	6	5	13	7	4	4	7	9	5	2	2	6	10	3	2	4	4	2	4	5	4	3
Ishikawa	11	7	6	11	13	8	5	6	5	7	2	6	6	11	4	2	4	5	5	3	3	5	1	6	2	2	7	3	3	2
Fukui	9	12	10	11	9	9	14	10	7	6	4	7	3	12	5	5	5	8	3	4	4	3	2	3	4	2	3	4	1	3
Yamanashi	11	17	10	15	11	8	12	5	7	12	9	9	7	6	1	5	6	7	3	6	3	3	4	6	3	5	2	2	1	4
Nagano	30	20	28	26	34	27	20	22	15	15	20	14	8	5	10	8	6	7	9	11	10	7	8	10	3	5	5	3	4	2
Gifu	26	14	24	21	20	24	18	12	12	26	7	13	20	10	10	9	8	6	4	11	5	3	2	3	9	8	6	7	1	4
Shizuoka	29	27	34	21	23	23	27	27	20	17	16	21	18	18	10	20	18	20	12	12	15	12	5	8	13	7	4	11	4	6
Aichi	45	49	37	41	44	30	36	32	28	28	35	26	33	31	19	29	21	25	10	16	13	12	16	19	18	7	15	10	16	13

Mie	24	12	26	12	19	14	15	14	17	18	12	9	10	9	10	9	11	9	3	10	4	4	5	7	6	6	7	8	5	7
Shiga	10	10	11	14	4	11	8	7	6	12	4	10	9	7	8	4	4	4	6	1	4	4	3	2	2	3	3	3	2	6
Kyoto	17	14	17	16	20	16	16	17	12	14	11	11	8	3	9	6	10	11	8	7	4	4	4	3	7	2	10	3	7	2
Osaka	63	40	54	61	55	54	47	40	22	31	33	26	30	21	31	37	35	28	20	18	20	16	21	14	13	11	20	25	20	12
Hyogo	47	55	29	28	69	64	48	36	36	37	26	24	29	25	13	21	16	12	22	21	11	16	9	12	10	7	12	12	11	12
Nara	14	10	13	9	16	12	10	7	9	6	6	2	5	5	3	1	6	4	4	5	3	5	4	8	4	2	2	3	3	3
Wakayama	19	9	13	7	9	10	8	11	10	9	6	6	5	7	3	6	8	5	5	2	5	4	3	1	1	7	3	2	5	3
Tottori	5	4	3	2	7	9	1	6	12	5	4	7	2	2	1	4	1	2	3	1	1	2	3	2	0	0	2	0	1	5
Shimane	7	11	15	6	12	9	6	12	12	4	7	2	8	0	2	8	6	2	6	3	4	2	4	4	0	4	0	3	2	2
Okayama	21	14	15	22	18	21	15	16	16	17	13	19	5	9	12	8	7	4	8	6	7	12	11	6	2	4	4	4	5	6
Hiroshima	21	25	23	23	19	12	13	20	18	20	18	11	7	23	13	6	12	7	4	7	8	7	9	8	3	4	8	7	4	2
Yamaguchi	23	19	21	16	13	14	19	12	18	15	10	6	9	9	4	12	8	0	7	2	4	4	4	8	5	8	7	5	5	4
Tokushima	6	17	5	9	15	12	8	11	11	6	6	8	6	9	7	2	5	3	2	2	2	3	4	5	0	2	4	4	3	3
Kagawa	10	8	9	10	7	6	5	2	13	2	3	12	2	6	7	7	6	4	2	3	2	5	0	2	2	2	3	2	0	2
Ehime	19	22	14	11	12	18	16	25	10	13	9	11	12	10	7	11	6	5	3	6	3	4	3	2	5	3	6	9	10	3
Kochi	7	13	11	9	11	12	9	14	14	9	8	8	4	9	9	3	3	3	3	2	3	8	5	4	2	6	3	4	6	0
Fukuoka	38	43	27	41	31	34	31	17	32	26	19	25	23	19	21	18	16	24	16	13	12	17	12	12	13	10	8	12	4	9
Saga	6	12	4	7	5	10	8	10	6	6	5	3	1	4	6	6	1	3	0	6	0	2	3	1	3	6	4	3	0	4
Nagasaki	12	18	13	9	4	14	7	12	11	13	12	7	9	11	8	6	3	9	9	2	6	4	6	3	7	7	3	5	4	4
Kumamoto	17	22	17	13	17	15	12	11	16	16	9	3	15	11	7	8	5	6	6	8	4	7	5	4	4	9	13	7	3	7
Oita	16	8	17	20	10	16	10	15	16	11	10	7	6	6	12	3	6	8	5	2	4	10	2	5	5	5	9	3	3	3
Miyazaki	12	10	6	12	7	7	9	8	12	10	10	10	9	9	4	7	5	1	1	3	3	1	3	3	5	5	3	1	5	5
Kagoshima	15	9	27	18	18	16	20	8	26	12	8	9	4	15	10	9	10	7	5	9	4	5	5	6	5	4	8	4	6	3
Okinawa	3	4	8	7	7	7	4	1	7	5	4	6	3	5	3	10	5	5	9	5	6	0	2	4	5	2	7	4	8	7
total	1,047	993	953	942	1,021	1,001	848	725	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258

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

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