Fatal and non-fatal accidents in building facility construction work in Japan in 1999-2022

building facility construction work industry Code No.030203

Type of accidents in building facility construction work in 1999-2022

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	2021	2022	total
fall from height	363	426	424	395	375	354	325	359	317	245	254	281	285	258	264	273	286	267	203	209	254	233	272	227	7,149
falling to same level	116	104	108	87	100	87	91	91	87	62	74	66	62	90	74	83	69	67	74	66	70	97	73	72	1,970
crash	64	55	68	59	61	42	44	35	38	40	36	39	43	26	33	27	40	27	33	28	23	37	35	37	970
struck by flying or falling object	107	127	138	108	95	93	91	99	75	72	56	55	58	63	73	62	61	51	50	51	57	55	56	28	1,781
collapse	30	32	22	18	28	18	33	24	29	19	8	12	16	11	18	20	21	17	11	18	28	16	12	13	474
crashed by	39	42	47	40	33	33	34	34	25	27	20	23	29	20	24	27	24	23	18	20	22	23	28	16	671
caught in/between	113	113	119	100	118	97	96	80	87	78	58	68	74	67	78	78	74	62	59	61	55	57	68	84	1,944
cut	179	152	176	156	145	114	108	100	83	93	63	93	69	74	96	69	69	83	60	65	50	50	61	50	2,258
injury to the sole of the foot	13	6	9	7	11	5	4	3	6	5	3	1	8	6	3	4	5	1	2	3	4	2	2		113
drown					1								9												10
contact to high/low-temperature	16	7	18	19	18	23	12	10	15	8	9	18	15	13	20	9	12	13	9	21	12	15	11	16	339

contact to harmful substance	5	3	6	9	14	7	11	8	8	3	5	6	9	3	6	3	4	17	7	5	8	8	6	9	170
electric shock	7	6	2	6	3	6	1	3	4	2	5		5	3	3	2			4	5	3	5	2	2	79
explosion	2	1	3	1	1		2		1	1		1		1	3				1	1		2		1	22
burst		1		7		1	1	1	1		1						1	1	1			1		1	18
fire	1	2	1	1	1	1	1	5	1	2	2	1		1	1		1	4	1	2	1	1			31
traffic accident (public road)	40	38	32	27	40	38	41	21	41	31	14	38	31	19	31	19	46	19	35	24	39	37	20	32	753
traffic accident (others)		1			1	1						2	1	1				1	1						9
reaction to motion/improper motion	92	76	83	81	84	88	58	76	57	57	56	60	52	50	45	51	49	37	48	47	53	46	71	61	1,478
others	4	6	5	5	5	7	6	3	4	6	4	5	13	3	6	3	5		3	2	3	12	111	5	226
unclassifiable	1	3		1			1	4	2		1						1							2	16
total	1,192	1,201	1,261	1,127	1,134	1,015	960	956	881	751	669	769	779	709	778	730	768	690	620	628	682	697	828	656	20,481

Causal agents (large) of fatal and non-fatal accidents in building facility construction work in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine	181	183	208	173	173	143	136	131	112	123	95	101	98	101	103	88	90	92	87	86	59	73	82	65	2,783
crane, conveying	118	106	116	116	126	98	130	79	105	80	62	99	85	64	85	78	106	77	81	72	89	81	91	85	2,229

machine																									
other equipment	301	294	319	328	280	250	242	263	243	195	199	219	206	190	210	216	219	216	171	171	176	206	227	184	5,525
temporary buildings, establishments	314	360	333	274	299	288	250	266	226	193	185	200	208	215	197	194	197	190	163	168	198	198	190	174	5,480
substance, material	163	153	155	131	146	122	123	123	123	90	68	73	95	76	91	84	75	70	61	64	89	59	66	71	2,371
load	44	46	60	41	51	52	34	33	35	27	24	29	25	25	44	31	36	15	20	13	30	25	23	25	788
environment	25	23	37	19	24	21	22	27	16	20	10	19	35	19	33	20	24	14	17	30	22	21	11	27	536
others	46	36	33	45	35	41	23	34	21	23	26	29	27	19	15	19	21	16	20	24	19	34	138	25	769
total	1,192	1,201	1,261	1,127	1,134	1,015	960	956	881	751	669	769	779	709	778	730	768	690	620	628	682	697	828	656	20,481

Causal agents (middle) of fatal and non-fatal accidents in building facility construction work in 1999-2022

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	2021	2022	total
engine		2			1		2		1		1	1			2		2						2		14
power transmission mechanism		1	2	1	10	1	2		4	1	1		4	4	1		2	2		1	1	1	3		42
woodworking machine	58	48	51	53	53	34	32	34	18	37	20	21	23	26	25	23	16	24	17	16	17	13	17	9	685
construction machine	32	46	38	30	21	37	36	30	20	18	19	17	23	24	22	25	27	25	16	17	16	19	19	17	594

metal manufacturing machine	56	56	82	66	55	47	40	38	37	47	37	43	36	29	32	24	26	26	40	41	12	22	29	28	949
general machine	35	30	35	23	33	24	24	29	32	20	17	19	12	18	21	16	17	14	14	11	13	18	12	11	498
mobile silviculture machine																		1							1
crane	10	14	18	15	21	7	21	20	11	15	12	14	16	10	12	8	17	16	10	13	7	15	19	17	338
conveying machine	66	58	70	73	61	64	68	40	62	41	38	49	35	34	48	46	49	38	39	38	45	30	48	40	1,180
vehicle	42	34	28	28	44	27	41	19	32	24	12	36	34	20	25	24	40	23	32	21	37	36	24	28	711
pressure vessel	5	2	5	3	4	5	5	4	1	1	1	1		2	3	1		1		4	2	1	3	1	55
chemical facilities	2					2		1	2	2		1								2					12
welding equipment	5	2	3	4	3	5	2		2	4	3	2	3			1		2	2	2	2	3			50
kiln, caldron			1	7		1		2						1	2		1		1		1	3	1		21
electric equipment	11	5	4	12	7	6	2	6	5	5	7	6	7	6	9	4		4	7	7	4	6	4	5	139
human power machine, tools	77	67	62	60	45	47	46	36	37	32	25	39	35	36	38	34	30	32	23	27	25	24	32	26	935
tools	186	196	219	226	201	165	166	192	180	137	152	153	143	126	142	162	159	154	127	119	125	149	163	132	3,874
other equipments, facilities	15	22	25	16	20	19	21	22	16	14	11	17	18	19	16	14	29	23	11	10	17	20	24	20	439
temporary																									

buildings, establishments	314	360	333	274	299	288	250	266	226	193	185	200	208	215	197	194	197	190	163	168	198	198	190	174	5,480
hazards, harmful substances	11	5	14	18	18	11	13	13	14	9	8	10	11	6	12	4	4	17	8	7	11	8	7	11	250
materials	152	148	141	113	128	111	110	110	109	81	60	63	84	70	79	80	71	53	53	57	78	51	59	60	2,121
load	44	46	60	41	51	52	34	33	35	27	24	29	25	25	44	31	36	15	20	13	30	25	23	25	788
natural environment	25	23	37	19	24	21	22	27	16	20	10	19	35	19	33	20	24	14	17	30	22	21	11	27	536
other causal agent	15	16	7	11	6	9	1	7	3	5	3	5	6	3	1	3	7	5	5	3	2	10	115	3	251
no causal agent	29	17	26	33	27	31	20	24	14	17	22	23	20	16	13	14	12	11	15	20	17	24	23	20	488
unclassifiable	2	3		1	2	1	2	3	4	1	1	1	1		1	2	2			1				2	30
total	1,192	1,201	1,261	1,127	1,134	1,015	960	956	881	751	669	769	779	709	778	730	768	690	620	628	682	697	828	656	20,481

Causal agents (small) of fatal and non-fatal accidents in building facility construction work in 1999-2022

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	2021	2022	total
engine					1		2		1		1	1			2		2						2		12
power transmission mechanism			2		10		2		4	1	1		4	4	1		2	2		1	1	1	3		39
circular sawing machine			40		34		24	25	13	23	17	16	15	18	17	16	12	12	13	9	13	8	11	4	340
band sawing machine			1										1	1					1						4

wood planer machine					1		3	1		2		1	1	2			1	4		1					17
hollow chisel mortiser, wood borer					1					1		1			2	1			1					1	8
chamfering machine, router, woodworking milling machine								1												1					2
chain saw			1		1			1				1	2		1	1		2		1		3	3	3	20
other woodworking machines			9		16		5	6	5	11	3	2	4	5	5	5	3	6	2	4	4	2	3	1	101
leveling, transporting or loading machine			3				3	2		2	1	3	2	1	2	3	2	2	3	2		2	2	2	37
excavating machine			17		8		17	13	10	10	6	2	9	11	7	9	14	11	7	4	6	11	6	8	186
foundation work machine							1	1	1					2		1	1	1	1		2				11
hardening machine			2		1		1	2	1	1		1	2	2	3	1	2			1	1		2		23
demolition machine					3		3	2	1		4	1	5	1	1	2	2	2		1	1	3			32
vehicle for high lift work			1		3		2	4	4		4	6	1	3	1	4	3	3	3	4	4	2	6	7	65
other construction																									

machines			15		6		9	6	3	5	4	4	4	4	8	5	3	6	2	5	2	1	3		95
lathe			4		4		2	1	1	2			1			2		1	1			1			20
drill press, milling machine			2		2				1	4		1		1	1		1		1	2				1	17
grinding machine, buffing machine			40		23		21	19	15	19	27	31	22	13	18	12	14	11	18	19	6	15	17	15	375
power press			3		2		1			1	2	2	2	1		1		3	4	5	1	2	1		31
forging pressure hammer																						1			1
shearing machine			2		2		1		1				1			1			1	1			1		11
other metal manufacturing machines			31		22		15	18	19	21	8	9	10	14	13	8	11	11	15	14	5	3	10	12	269
centrifugal machine																									
mixer, grinder			2		1		1	3	1	2	1	2			2	2	3		3	1	1			1	26
roll machine (except printingroll machine)					1		1	1	1	1					1			1		2		1			10
injection molding machine																1									1
food manufacturing machine									1										1					1	3

printing machine																									
industrial robot																									
other general power machines			33		31		22	25	29	17	16	17	12	18	18	13	14	13	10	8	12	17	12	9	346
felling machine																									
mobile logging machine																		1							1
skyline yarding machine																									
other mobile silviculture machine																									
crane			6		3		6	5	6	3	3	4	5		2	2	4	7	4	3	2	5	4	6	80
mobile crane			6		10		10	9	3	6	5	7	8	5	5	5	6	7	1	6	4	5	10	5	123
derrick crane																									
elevator, lift			3		4		1	5			2		1	3	2		4		2		1	3	4	4	39
cargo lifting appliance																									
gondola															1	1			1						3
lumberyard equipment, logging cableway										2															2
simple skyline yarding equipment																									

other powered crane			3		4		4	1	2	4	2	3	2	2	2		3	2	2	4		2	1	2	45
truck			64		58		61	32	53	39	38	44	29	30	43	41	46	35	33	32	43	27	37	35	820
forklift			3				4	4	6	2		2	3	3	3	3	2	2	3	5	2	2	6	3	58
railway equipment																									
conveyor			1		2		2	1	2			1	3			1			2				1		16
loader																			1				1		2
straddle carrier																									
rough terrain hauler								1																	1
other powered conveying machines			2		1		1	2	1			2		1	2	1	1	1		1		1	3	2	22
cars, bus, motorcycle			28		44		41	17	32	24	12	35	34	20	25	24	40	23	32	21	37	36	23	28	576
railway vehicle												1													1
other vehicles								2															1		3
boiler			2		3		2	2	1		1	1		2	1					3			1	1	20
pressure vessel															2								1		3
other pressure vessels			3		1		3	2		1						1		1		1	2	1	1		17
chemical facilities								1	2	2		1								2					8
gas welding equipment			1				1		1			1	2					1	1		1	2			11

arc welding equipment			2		2		1		1	1	3	1	1			1		1	1	2	1	1			19
other welding equipment					1					3															4
kiln, caldron			1					2						1	1		1		1		1	2	1		11
industrial dryer																									
other kiln, caldron															1							1			2
transmission			1		2		1	2	3	3	4	2	3	2	6	4			4	6	1	1	3	4	52
electric power facilities			1		2			1	1		2	2	4	3				2	2		2	2			24
other electrical equipment			2		3		1	3	1	2	1	2		1	3			2	1	1	1	3	1	1	29
human power cranes					2		1		1	1	2		3	1	1	2		1	2	1		7	1	2	28
human power hauling equipment			6		2		2	4	4	4	5	5	8	2	2	2	5	6		2	3	1	5	2	70
human power machine			2		1				2	1		1		2	1	2				1			1		14
hand tool			54		40		43	32	30	26	18	33	24	31	34	28	25	25	21	23	22	16	25	22	572
ladder			200		171		148	167	160	114	135	137	137	117	129	151	146	138	111	101	119	129	154	120	2,784
slinging tool			4		4		4	4	4	5	3	4		1	3	2	4	5	3	1	2	2	4	1	60
other tools			15		26		14	21	16	18	14	12	6	8	10	9	9	11	13	17	4	18	5	11	257

other equipment, facilities			25		20		21	22	16	14	11	17	18	19	16	14	29	23	11	10	17	20	24	20	367
scaffolding			76		54		52	64	46	41	25	33	52	33	44	39	39	31	29	24	39	23	29	20	793
timbering			1		2		2	1	2	1			1	1	1	1		1		1	1		2		18
stairs, landing stage			37		33		26	24	27	26	26	21	21	26	22	23	24	23	23	17	31	39	21	26	516
opening			16		10		11	12	11	8	8	3	11	9	6	6	5	5	2	6	5	8	5	7	154
roof, beam, haze, crossbeam, principal rafter			67		56		46	42	33	29	34	50	38	35	38	32	37	31	24	25	24	27	25	23	716
working platform, boot board			24		33		15	22	19	18	17	15	10	14	14	22	15	24	18	13	17	20	18	10	358
passage			34		40		37	36	35	26	32	37	31	41	33	31	24	30	32	42	44	42	40	41	708
building, establishment			58		48		42	44	30	33	33	29	32	35	23	21	36	28	23	27	24	26	33	26	651
other temporary buildings, establishments			20		23		19	21	23	11	10	12	12	21	16	19	17	17	12	13	13	13	17	21	330
explosive substance					1																				1
inflammable substance			3		3		3	5	3	2	2	2		2	2		1	1	1	1	2				33
inflammable gas			5		3		1	2	2	2	1	3	3	3	4	1		3	1		1		1		36
harmful substance			3		5		7	2	6	3	2	5	7	1	1	2	3	5	2	3	6	1	3	9	76
radiation																									

other hazards, harmful substances			3		6		2	4	3	2	3		1		5	1		8	4	3	2	7	3	2	59
metal material			84		83		66	79	66	52	40	40	48	45	48	56	47	30	36	34	47	29	33	36	999
lumber, bamboo			17		11		10	13	16	10	6	8	9	8	14	12	3	8	7	6	8	8	7	6	187
stone, sand, substance			11		10		9	5	11	5	5	4	4	5	2	3	4	5	3	2	3	5	4	6	106
other materials			29		24		25	13	16	14	9	11	23	12	15	9	17	10	7	15	20	9	15	12	305
load			45		34		22	23	26	14	13	15	21	16	25	23	23	14	14	8	22	18	13	17	406
machine/equipment as load			15		17		12	10	9	13	11	14	4	9	19	8	13	1	6	5	8	7	10	8	199
natural ground, rock			12		7		11	8	7	8	4	3	9	5	7	3	8	5		4	9	9	2	7	128
standing tree			4		1		1	1	2		2	3	1	2	3	1	3		1	3	3	2	1	1	35
water					1		1	3		1		2	13				1			1					23
abnormal environment					1		1		1				1					3							7
high/cold temperature environment			9		5		2	2	4	1	1	3	5	4	12	6	3	2	5	13	8	6	5	10	106
other environments			12		9		6	13	2	10	3	8	6	8	11	10	9	4	11	9	2	4	3	9	149
other causal agent			7		6		1	7	3	5	3	5	6	3	1	3	7	5	5	3	2	10	115	3	200
no causal agent			26		27		20	24	14	17	22	23	20	16	13	14	12	11	15	20	17	24	23	20	378

unclassifiable					2		2	3	4	1	1	1	1		1	2	2			1				2	23
total	1,192	1,201	1,261	1,127	1,134	1,015	960	956	881	751	669	769	779	709	778	730	768	690	620	628	682	697	828	656	20,481

Workers age of fatal and non-fatal accidents in building facility construction work in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less	37	41	48	32	25	31	22	19	23	15	14	21	21	22	19	27	24	13	16	18	7	14	12	6	527
20-29	315	290	314	284	274	235	218	191	165	142	103	138	124	114	156	112	121	118	109	114	124	120	161	135	4,177
30-39	207	238	250	229	288	254	216	254	218	209	175	194	200	187	188	152	167	137	119	118	120	131	154	103	4,508
40-49	229	214	195	180	179	151	153	177	146	111	125	138	167	159	153	162	177	176	145	157	169	176	187	145	3,971
50-59	278	282	302	243	242	226	222	217	197	158	154	140	142	124	115	146	150	117	121	100	131	122	167	124	4,220
60 years old or more	126	136	152	159	126	118	129	98	132	116	98	138	125	103	147	131	129	129	110	121	131	134	147	143	3,078
total	1,192	1,201	1,261	1,127	1,134	1,015	960	956	881	751	669	769	779	709	778	730	768	690	620	628	682	697	828	656	20,481

Workers' number of workplace of fatal and non-fatal accidents in building facility construction work in 1999-2022

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
9 workers or less	829	804	879	796	777	722	698	665	605	521	462	541	532	487	537	475	507	463	398	388	435	410	477	405	13,813
10-29	276	311	291	237	268	210	190	224	209	177	144	174	194	173	183	187	190	169	161	185	184	197	240	165	4,939
30-49	50	53	58	50	46	43	36	44	31	27	38	31	29	28	27	50	44	34	39	30	32	51	60	47	978
50-99	24	22	18	28	22	25	18	14	24	14	17	9	15	14	15	9	14	13	12	16	15	19	31	28	436

100-299	9	10	13	11	16	14	16	9	10	9	7	11	8	5	13	6	10	8	6	7	14	15	13	9	249
300 workers or more	4	1	2	5	5	1	2		2	3	1	3	1	2	3	3	3	3	4	2	2	5	7	2	66
total	1,192	1,201	1,261	1,127	1,134	1,015	960	956	881	751	669	769	779	709	778	730	768	690	620	628	682	697	828	656	20,481

Month of fatal and non-fatal accidents in building facility construction work in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	88	94	90	92	78	84	69	71	68	54	58	65	57	50	62	54	64	59	55	53	47	48	60	58	1,578
February	98	102	106	82	80	79	75	78	70	84	49	73	61	54	55	56	57	52	62	44	68	49	61	52	1,647
March	97	109	107	83	91	80	68	86	98	59	59	80	80	59	56	73	62	55	47	58	49	54	68	60	1,738
April	92	93	88	87	99	77	87	85	70	60	53	50	65	57	63	70	63	48	46	42	66	66	80	52	1,659
May	93	105	101	84	98	77	79	66	63	58	54	56	65	60	64	67	60	57	41	45	46	47	56	55	1,597
June	118	111	120	88	103	81	71	93	74	59	68	60	63	74	55	61	68	56	46	51	54	58	62	58	1,752
July	95	102	118	110	114	107	96	72	87	64	59	75	80	73	80	77	81	72	56	59	66	61	77	52	1,933
August	93	109	99	108	106	106	89	97	84	64	55	67	74	54	67	54	64	63	60	71	51	77	119	58	1,889
September	110	79	113	109	86	91	85	86	79	75	53	60	50	49	62	61	78	68	47	49	58	60	92	53	1,753
October	110	111	134	105	89	82	75	80	67	62	67	62	53	59	90	63	65	50	53	63	55	63	53	56	1,767
November	111	103	102	97	93	81	90	80	66	59	52	69	64	52	65	35	57	54	55	50	78	63	49	48	1,673
December	87	83	83	82	97	70	76	62	55	53	42	52	67	68	59	59	49	56	52	43	44	51	51	54	1,495
total	1,192	1,201	1,261	1,127	1,134	1,015	960	956	881	751	669	769	779	709	778	730	768	690	620	628	682	697	828	656	20,481

Prefecture of fatal and non-fatal accidents in building facility construction work in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	59	64	76		42		50	49	40	38	22	20	33	34	40	49	56	32	26	34	39	37	41	35	916
Aomori	24	11	24		20		8	20	10	9	7	8	10	5	10	9	9	17	12	9	8	11	16	14	271
Iwate	10	11	29		13		18	9	17	11	9	11	18	8	9	10	12	7	8	13	8	12	6	17	266
Miyagi	14	14	16		20		20	14	20	28	22	20	30	14	26	15	16	22	17	18	19	19	23	12	419
Akita	24	14	23		18		11	18	10	6	6	5	6	6	5	4	5	6	5	11	11	6	10	6	216
Yamagata	14	23	24		9		11	19	6	8	5	7	6	8	5	13	7	9	6	4	7	6	10	6	213
Fukushima	22	26	24		28		21	26	14	13	20	11	18	22	20	19	16	20	21	14	11	16	16	19	417
Ibaraki	16	22	30		24		18	19	14	7	12	8	20	15	8	26	18	15	10	9	11	20	53	12	387
Tochigi	12	7	12		11		12	11	9	11	12	10	19	22	22	11	15	13	9	5	9	5	9	17	263
Gunma	31	19	38		17		17	15	11	17	9	13	12	23	14	19	19	9	13	15	9	12	24	15	371
Saitama	58	59	52		68		64	42	56	35	45	49	41	60	61	48	40	32	37	28	34	24	36	27	996
Chiba	46	57	49		24		46	53	42	39	44	22	48	27	28	27	20	36	43	23	20	27	32	25	778
Tokyo	85	113	94		144		114	70	82	77	49	81	69	62	80	77	53	62	52	67	81	58	72	52	1,694
Kanagawa	99	90	94		75		48	57	58	59	47	51	49	38	54	41	52	39	28	30	38	50	52	39	1,188
Niigata	17	21	41		18		21	20	21	25	19	29	25	23	24	18	20	20	26	22	26	20	27	21	504
Toyama	13	8	20		9		11	6	7	6	5	12	9	10	11	12	22	5	9	3	13	17	18	5	231
Ishikawa	6	6	9		2		5	5	4	3	10	10	4	14	9	4	11	6	8	10	5	7	8	6	152
Fukui	10	8	20		6		10	12	11	5	8	5	2	6	1	1	6		3	8	5	6	8	9	150
Yamanashi	6	4	10		3		4	4	1		2		1	2	6	3	3	4		1	4	1	3	4	66

Nagano	29	28	25		22		20	27	24	16	14	18	24	16	15	15	20	15	14	13	15	21	8	14	413
Gifu	20	23	30		19		21	27	24	7	12	9	7	11	10	6	11	11	12	8	11	13	7	9	308
Shizuoka	64	50	43		48		26	39	35	24	14	30	30	34	31	23	18	30	26	22	23	28	33	32	703
Aichi	53	43	42		39		28	45	24	37	23	34	33	18	20	24	40	31	31	36	36	27	36	24	724
Mie	22	16	15		25		6	17	9	8	9	13	10	9	11	16	14	23	12	13	10	8	9	7	282
Shiga	7	20	10		10		5	10	4	2	4	5	5	3	5	1	3	2	4	5	4	7	3	2	121
Kyoto	16	14	30		35		15	22	35	19	9	16	18	21	18	13	15	13	14	17	12	13	18	24	407
Osaka	91	103	111		54		28	46	32	29	38	43	38	26	27	15	24	24	16	22	16	17	17	14	831
Hyogo	47	59	39		42		20	33	26	14	19	38	17	18	26	31	25	31	17	19	16	29	22	17	605
Nara	4	5	4		12		9	7	6	4	5	5		1	3	6	4	5	1		5	1	6	6	99
Wakayama	18	13	21		21		20	17	13	14	10	14	22	11	9	8	13	15	10	6	9	10	13	9	296
Tottori	3	3	4		6		3	1	3	3	3	3	2	1	2	4	5	4	3	5	4	7	2	2	73
Shimane	6	6	4		5		5	1	1	3	5	1	3	5	5		5	6	3	3	5	3	7	6	88
Okayama	16	24	16		24		17	7	12	10	8	4	10	7	5	11	6	2	8	15	12	4	8	10	236
Hiroshima	26	20	29		22		24	27	23	17	17	30	16	11	19	8	23	12	11	12	10	18	27	17	419
Yamaguchi	15	22	12		23		8	20	5	10	4	8	10	5	13	8	7	13	6	12	14	24	15	8	262
Tokushima	6	11	9		17		17	9	12	13	6	22	12	8	8	6	10	2	2	6	10	6	2	3	197
Kagawa	9	7	8		11		15	10	19	14	5	11	2	2	11	4	3	3	4	10	7	8	6	8	177
Ehime	10	5	6		6		7	7	10	5	5	8	5	11	14	13	13	4	7	8	4	4	10	5	167
Kochi	17	7	13		5		7	10	8	6	5	4	1	5	4	3	4	5	4	1	4	13	5	7	138
Fukuoka	60	54	52		47		83	42	47	48	46	30	34	38	30	35	34	21	25	19	15	14	37	27	838

Saga	7	9	9		10		12	5	10	9	4	6	6	8	6	9	4	3	6	2	5	7	6	6	149
Nagasaki	10	9	11		18		9	11	11	2	3	6	8	5	4	7	10	4	9	9	12	9	7	8	182
Kumamoto	8	12	4		16		13	11	19	12	9	13	8	10	16	18	11	15	15	9	14	13	16	11	273
Oita	37	48	14		18		17	11	7	7	15	10	7	5	10	3	12	11	1	2	9	9	7	5	265
Miyazaki	12	4	4		12		6	19	11	6	3	7	9	8	5	10	9	2	4	9	8	6	10	8	172
Kagoshima	11	4	7		15		9	3	12	9	17	6	12	8	7	12	19	14	9	7	17	14	15	16	243
Okinawa	2	5	4		1		1	3	6	6	4	3	10	5	11	15	6	15	13	14	17	10	12	10	173
total	1,192	1,201	1,261	1,127	1,134	1,015	960	956	881	751	669	769	779	709	778	730	768	690	620	628	682	697	828	656	20,481

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

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

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html

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Fatal accidents in building facility construction work in Japan in 1999-2022

building facility construction work industry Code No.030203

Type of fatal accidents in building facility construction work in 1999-2022

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	2021	2022	total
fall from height	6	9	10	8	6	7	6	6	5	6	5	6	8	4	7	5	4	5	3	7	4	1	8	8	144
falling to same level		1				1								1											3
crash				1									1												2
struck by flying or falling object	1	1								1	1		1	1	2		2	1							11
collapse	1	2	1	1	2											2		1			1		2		13
crashed by		1				1		1	1				1						1						6
caught in/between		1		1					1	1			2				1							1	8
cut																						1			1
injury to the sole of the foot												1													1
drown											1		9												10
contact to high/low-temperature					1			1		1				1						1		1		1	7
contact to harmful substance													1								1				2
electric shock	1	1						1	1						1	1				1		1	1		9
explosion																									
burst																		1							1
fire											1	2			1						1				5
traffic accident (public	1	2	5	3	1	5	3	1	2	4	1	1	5	1	1	1	2	3	4	2	1	3	2	1	55

road)																									
traffic accident (others)												1													1
reaction to motion/improper motion																									
others	1					2							3		1	2	1						3	1	14
unclassifiable										1							1		1						3
total	11	18	16	14	10	16	9	10	10	14	9	11	31	8	13	11	11	11	9	11	8	7	16	12	296

Causal agents (large) of fatal accidents in building facility construction work in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine		3	1			1		1	1				1	2				1				2		2	15
crane, conveying machine	1	4	6	5	1	5	4	2	3	5	1	2	10	2	1	1	4	3	5	2	1	3	2	2	75
other equipment	4	5	2	3	1		2	1	2	3		4			4	4	1	3		2	1	1	5	2	50
temporary buildings, establishments	5	5	7	5	7	8	3	5	4	5	5	4	5	3	5	2	3	3	3	5	4		5	4	105
substance, material						1					2	1	1		1						2		1		9
load																	1								1
environment	1	1		1	1			1			1		14	1	1	2		1		2		1		1	29
others						1				1					1	2	2		1				3	1	12

total	11	18	16	14	10	16	9	10	10	14	9	11	31	8	13	11	11	11	9	11	8	7	16	12	296

Causal agents (middle) of fatal accidents in building facility construction work in 1999-2022

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	2021	2022	total
engine																									
power transmission mechanism																									
woodworking machine																									
construction machine		3	1			1		1	1					2				1				1		1	12
metal manufacturing machine													1												1
general machine																						1		1	2
mobile silviculture machine																									
crane		1	1				1			1			2	1			1								8
conveying machine		1	2	1			1	1	2	2	1	1	2		1	1	1		1	1		1	2	1	23
vehicle	1	2	3	4	1	5	2	1	1	2		1	6	1			2	3	4	1	1	2		1	44
pressure vessel																									
chemical facilities										1															1
welding equipment										1		1									1				3
kiln, caldron																									

electric equipment	1	1						1	1						2	2				1		1	1		11
human power machine, tools		1																					1		2
tools	3	3	2	3			2		1			3			2	2	1	2		1			3	2	30
other equipments, facilities					1					1								1							3
temporary buildings, establishments	5	5	7	5	7	8	3	5	4	5	5	4	5	3	5	2	3	3	3	5	4		5	4	105
hazards, harmful substances						1					1	1	1								1				5
materials											1				1						1		1		4
load																	1								1
natural environment	1	1		1	1			1			1		14	1	1	2		1		2		1		1	29
other causal agent						1																	2		3
no causal agent															1	2	1		1				1	1	7
unclassifiable										1							1								2
total	11	18	16	14	10	16	9	10	10	14	9	11	31	8	13	11	11	11	9	11	8	7	16	12	296

Causal agents (small) of fatal accidents in building facility construction work in 1999-2022

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	2021	2022	total
engine																									

power transmission mechanism																									
circular sawing machine																									
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines																									
leveling, transporting or loading machine																									
excavating machine		1	1					1						1				1						1	6
foundation work machine						1																			1
hardening machine																									
demolition machine																									
vehicle for high lift work		2							1					1								1			5
other construction machines																									

lathe																									
drill press, milling machine																									
grinding machine, buffing machine																									
power press																									
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines													1												1
centrifugal machine																									
mixer, grinder																									
roll machine (except printingroll machine)																									
injection molding machine																									
food manufacturing machine																								1	1
printing machine																									
industrial robot																									

other general power machines																						1			1
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane										1															1
mobile crane			1																						1
derrick crane																									
elevator, lift		1											2	1											4
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane							1										1								2
truck			2				1		1	2	1	1			1	1	1					1	2		14
forklift		1						1	1				1						1						5
railway equipment																									
conveyor																									

loader																									
straddle carrier																									
rough terrain hauler				1																					1
other powered conveying machines													1							1				1	3
cars, bus, motorcycle	1	2	3	4	1	5	1	1	1	2		1	6	1			2	3	4	1	1	2		1	43
railway vehicle																									
other vehicles							1																		1
boiler																									
pressure vessel																									
other pressure vessels																									
chemical facilities										1															1
gas welding equipment																									
arc welding equipment										1		1									1				3
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									
transmission	1	1													2	2				1		1			8
electric power facilities								1	1																2
other electrical																									

equipment																							1		1
human power cranes																							1		1
human power hauling equipment		1																							1
human power machine																									
hand tool																									
ladder	2	2	2	3			2		1			3			2	2	1	1		1			3	2	27
slinging tool	1	1																1							3
other tools																									
other equipment, facilities					1					1								1							3
scaffolding		1	2	2	1	4	2	2		1	2	2	1		3				1		2			2	28
timbering																									
stairs, landing stage			1			1			1	1								1					1		6
opening		4	1	1		1			1									1							9
roof, beam, haze, crossbeam, principal rafter	2		2	1	3	1	1	1		1	1	2	1	2		1	2	1	1	3	1		1	1	29
working platform, boot board								1		1	1				1					1					5
passage													1								1				2
building, establishment	3			1	1	1		1	2	1			2	1		1			1	1			2	1	19

other temporary buildings, establishments			1		2						1				1		1						1		7
explosive substance																									
inflammable substance											1														1
inflammable gas												1									1				2
harmful substance													1												1
radiation																									
other hazards, harmful substances						1																			1
metal material															1						1				2
lumber, bamboo																									
stone, sand, substance																									
other materials											1												1		2
load																									
machine/equipment as load																	1								1
natural ground, rock		1		1												2		1							5
standing tree																									
water											1		12												13
abnormal environment																									
high/cold temperature																									

environment	1				1			1						1						1		1		1	7
other environments													2		1					1					4
other causal agent						1																	2		3
no causal agent															1	2	1		1				1	1	7
unclassifiable										1							1								2
total	11	18	16	14	10	16	9	10	10	14	9	11	31	8	13	11	11	11	9	11	8	7	16	12	296

Workers age of fatal accidents in building facility construction work in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less	1	2			1					1					1				1			1			8
20-29	2	4	4	3	1	3	1	2	1		1	2		2	2	3	2	2	4		1		1		41
30-39		3	4	1		3	2	1	2	2	2	1	9	4	3	2	1	3		1	1	2	3		50
40-49	4		1	3	4	2	1	2	1	4	2	1	6		2	1	4	3	3	4	2	1	3	2	56
50-59	3	6	3	3	3	5	2	4	4		3	5	9	2	1	2	3	3		3	3		2	4	73
60 years old or more	1	3	4	4	1	3	3	1	2	7	1	2	7		4	3	1		1	3	1	3	7	6	68
total	11	18	16	14	10	16	9	10	10	14	9	11	31	8	13	11	11	11	9	11	8	7	16	12	296

Workers' number of workplace of fatal accidents in building facility construction work in 1999-2022

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
9 workers or less	3	9	8	9	8	9	7	7	5	12	6	9	22	6	7	7	7	7	8	9	5	6	11	8	195

10-29	8	7	7	3	1	4	2	2	3	1	2	1	8	2	3	3	2	2	1	2	3	1	5	2	75
30-49		1	1	1	1	1		1	1			1				1		2						1	12
50-99						1			1		1		1				2							1	7
100-299		1				1				1					2										5
300 workers or more				1											1										2
total	11	18	16	14	10	16	9	10	10	14	9	11	31	8	13	11	11	11	9	11	8	7	16	12	296

Month of fatal accidents in building facility construction work in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	1	1	2			3	1	1	2	1	1		2		1				1	2			1		20
February			2		1		2	2	1		1		3	1	2	3			2		3	1		1	25
March	2	4	1	2		1	1	3	1	3	1		14		1	3	1				2		2	4	46
April			1	2	2				1	1	1		1			1	1	2		1			2		16
May				2	1				3			2	2		1		1				1	1	1		15
June	1	1	2	1		1	1		1	2	1		2	1	1	2	1	1			1				20
July	2	2	1		2	2		1		2	1			2	1		2	1	1	1			4	1	26
August	1	2	2	3	1	3		1		2		3	1	1	1	1	2	4		3		3	3	2	39
September	1		2	1		3				2			1	1				2	1	2		1	2	2	21
October	1	3	1	1	1	2					2	2	1		2	1	1			1	1			1	21
November		3	2	1	2		2	2	1		1	2	1	2	1			1	4			1	1	1	28

December	2	2		1		1	2			1		2	3		2		2			1					19
total	11	18	16	14	10	16	9	10	10	14	9	11	31	8	13	11	11	11	9	11	8	7	16	12	296

Prefecture of fatal accidents in building facility construction work in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido		3		1		1			1	1		1		1			2	1			1				13
Aomori												1				1	1							1	4
Iwate		1	1										3	1											6
Miyagi		1											11		1	1			1	1			1		17
Akita																									
Yamagata			1	2						1															4
Fukushima		1								1			3			1	1			1		1			9
Ibaraki					1	1							1					1					1	1	6
Tochigi	1					1	1	1					1					1							6
Gunma											1	1													2
Saitama		1	2					1			2				1	2			1		1			1	12
Chiba	1	1		1	1	1			1	3			1	1	3		1			1	1				17
Tokyo	1		2	1	2	1			3	2	2	1	2	1	2	2	2	2	1	2	2		4	1	36
Kanagawa	1			1		3			2			2	1		1		1		1			1	3	2	19
Niigata				1			1													1			1		4
Toyama			1					1	1	1										1		1			6

Ishikawa												1													1
Fukui								1												1					2
Yamanashi																1						1			2
Nagano				1							1		2			1								1	6
Gifu							1		1									1		1			1		5
Shizuoka	1		1															1					1	1	5
Aichi		1				1	1	1							1						1				6
Mie				1		3	1					1						1	3						10
Shiga					2													1	1						4
Kyoto	2	1	1				1								2		1							1	9
Osaka	2	2	1	1		2						1		1						1	1	1	1	1	15
Hyogo			2	1	2												1		1			1			8
Nara																									
Wakayama					1		1			1			2												5
Tottori		1		1						1												1			4
Shimane													1		1					1				1	4
Okayama																									
Hiroshima						1				1		1			1		1						1		6
Yamaguchi		2			1			1								1					1			1	7
Tokushima		1				1	1		1							1									5
Kagawa										1		1													2

Ehime																		1							1
Kochi														1											1
Fukuoka	1	2	1					2		1	2												1		10
Saga	1		1				1							1											4
Nagasaki			2																						2
Kumamoto								1					1	1				1							4
Oita								1					1										1		3
Miyazaki				1																					1
Kagoshima													1												1
Okinawa				1							1														2
total	11	18	16	14	10	16	9	10	10	14	9	11	31	8	13	11	11	11	9	11	8	7	16	12	296

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

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