

tools	3,426	3,240	3,147	3,016	2,830	2,795	2,795	2,814	2,627	2,502	2,134	2,050	2,210	2,255	2,226	2,255	2,010	1,996	2,032	1,933	1,966	1,895	2,038
other equipments, facilities	245	301	268	242	223	241	232	219	242	221	177	193	187	202	197	233	204	192	168	208	158	209	181
temporary buildings, establishments	8,663	8,477	8,231	7,383	7,105	7,132	6,741	6,752	6,154	5,593	4,489	4,434	4,896	4,935	4,925	4,942	4,537	4,416	4,357	4,465	4,438	4,125	4,154
hazards, harmful substances	186	194	192	177	160	143	149	174	155	108	88	109	109	124	87	101	91	105	105	111	113	106	86
materials	4,370	4,287	3,921	3,659	3,265	3,134	2,997	2,905	2,736	2,382	2,015	2,002	1,998	2,058	2,035	2,066	1,815	1,716	1,741	1,702	1,734	1,688	1,647
load	738	756	789	706	636	624	578	551	583	531	490	441	427	436	488	429	402	364	391	394	450	446	410
natural environment	1,456	1,271	1,249	1,074	989	1,046	983	1,000	849	851	683	868	1,007	918	954	897	831	735	786	941	772	867	811
other causal agent	234	225	162	127	148	117	118	125	115	83	79	69	92	68	95	88	86	83	116	107	64	266	1,218
no causal agent	431	392	397	380	346	313	301	299	267	290	329	281	274	279	284	277	287	256	326	327	338	362	365
unclassifiable	43	48	39	35	25	31	26	33	29	32	25	25	12	15	17	20	15	8	13	10	12	3	8
total	30,905	29,747	28,284	26,299	24,543	23,809	22,869	22,386	20,764	19,280	16,268	16,143	16,983	17,073	17,189	17,184	15,584	15,058	15,129	15,374	15,183	14,977	16,079

Causal agents (small) of industrial accidents in construction in 1999-2021

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
engine			9		8		12	7	11	19	6	6	2	10	10	4	5	10	8	8	3	3	12
power transmission mechanism			38		28		28	20	28	26	16	15	15	18	15	12	17	14	16	15	14	9	17

circular sawing machine			1,228		1,065		840	795	752	672	553	517	533	510	536	459	345	350	329	324	320	267	276
band sawing machine			23		25		19	15	11	18	13	8	8	8	9	7	7	7	4	3	1	4	3
wood planer machine			340		270		188	167	139	169	110	103	79	90	75	61	58	70	53	59	37	55	35
hollow chisel mortiser, wood borer			57		41		29	20	20	18	14	14	10	11	8	10	8	7	7	4	4	7	4
chamfering machine, router, woodworking milling machine			17		8		15	14	8	6	10	5	5	2	2	3	2	2	1	7	2	1	5
chain saw			107		118		96	106	100	78	118	107	104	109	93	125	113	114	122	107	125	148	151
other woodworking machines			282		275		227	185	201	180	154	142	161	121	159	125	113	122	97	98	108	99	95
leveling, transporting or loading machine			220		224		173	191	153	143	124	157	126	134	138	127	142	126	136	142	118	106	138
excavating machine			825		661		678	588	532	527	445	444	475	498	485	495	399	403	404	410	447	470	447
foundation work machine			98		70		74	79	63	55	46	44	50	62	52	54	65	53	51	56	47	58	41
hardening machine			153		113		82	92	82	84	77	85	60	70	50	71	67	59	45	46	57	44	48
demolition machine			110		107		117	109	104	109	103	84	95	91	144	153	148	144	143	129	127	123	147
vehicle for high lift work			60		71		71	83	82	80	74	62	55	57	48	61	66	56	59	59	82	58	71
other construction machines			338		294		308	258	241	247	220	216	237	236	216	215	153	162	135	139	132	125	143
lathe			13		5		9	8	6	13	6	4	7	8	3	8	3	9	3	5	5	7	7
drill press, milling			20		19		14	29	20	23	15	11	12	15	6	5	7	9	9	9	5	3	11

skyline yarding machine																	0	1	0	0	0	1	0
other mobile silviculture machine																	0	0	0	0	1	0	4
crane			151		148		130	137	140	110	95	74	99	88	93	86	77	68	87	76	93	91	86
mobile crane			528		496		479	414	390	427	360	322	312	318	370	347	322	313	309	349	319	309	301
derrick crane			0		0		0	2	0	2	0	1	1	2	0	2	0	0	0	0	0	0	0
elevator, lift			44		31		25	30	19	25	22	10	22	23	12	18	23	16	12	15	16	19	17
cargo lifting appliance			2		3		1	0	1	0	0	0	1	0	1	2	0	0	3	0	2	0	0
gondola			8		5		5	3	3	6	5	4	7	2	7	4	0	2	7	3	4	2	3
lumberyard equipment, logging cableway			1		1		2	3	4	6	2	3	2	3	0	0	0	1	1	0	1	0	2
simple skyline yarding equipment																	1	0	0	1	0	1	2
other powered crane			72		72		67	59	50	52	31	41	41	37	48	28	49	36	31	31	36	28	29
truck			1,727		1,545		1,435	1,401	1,338	1,223	1,058	1,087	1,114	1,128	1,202	1,165	1,106	1,097	1,122	1,113	1,106	1,074	1,147
forklift			69		68		82	71	72	63	47	43	55	52	70	49	51	52	56	64	72	64	62
railway equipment			9		3		6	8	7	7	6	5	9	4	8	6	14	2	3	6	5	6	9
conveyor			45		48		40	36	25	32	18	16	30	24	15	16	14	25	22	29	17	25	20
loader			14		13		12	12	7	9	5	3	3	3	8	7	4	5	3	4	9	5	6
straddle carrier			0		1		1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
rough terrain hauler			34		27		20	23	14	22	30	9	17	11	15	21	17	6	18	15	18	14	17
other powered conveying machines			88		66		61	48	56	39	37	37	41	46	54	42	33	32	32	45	26	26	25

cars, bus, motorcycle			581		602		581	574	478	468	412	428	448	514	488	569	491	490	464	462	455	462	387
railway vehicle			5		3		9	3	1	2	8	3	2	2	4	3	4	6	5	1	4	4	1
other vehicles			27		28		29	23	26	26	25	28	17	17	18	15	17	22	17	14	21	16	19
boiler			8		4		6	6	5	2	1	10	1	5	3	5	1	6	2	5	3	2	3
pressure vessel			4		9		5	3	4	5	3	3	4	2	3	0	2	2	3	1	1	2	3
other pressure vessels			16		23		14	13	10	20	10	10	12	12	8	11	8	13	10	11	5	10	8
chemical facilities			2		5		4	8	9	7	4	3	5	4	1	8	5	1	0	7	3	2	1
gas welding equipment			29		23		26	14	22	10	18	23	17	9	12	13	16	10	10	36	18	6	9
arc welding equipment			18		14		12	5	15	12	13	14	8	3	10	12	13	7	6	9	6	10	4
other welding equipment			3		3		3	4	5	7	4	2	0	5	3	2	3	3	2	3	1	0	4
kiln, caldron			11		12		10	12	8	3	10	7	6	2	5	5	11	3	6	3	8	11	3
industrial dryer			0		1		1	1	1	0	1	1	0	0	2	0	0	1	0	0	0	1	1
other kiln, caldron			1		4		1	3	0	1	3	1	0	0	2	2	0	1	0	1	2	1	0
transmission			50		46		55	40	57	49	38	35	29	39	39	44	41	39	46	51	41	29	40
electric power facilities			36		16		25	22	37	19	24	23	18	21	22	32	15	19	15	18	15	18	23
other electrical equipment			42		29		25	23	13	21	18	23	18	14	18	12	19	24	11	10	19	21	21
human power cranes			27		35		23	22	28	27	17	14	33	15	22	26	12	15	18	13	20	30	30
human power hauling equipment			91		84		73	84	82	98	62	58	83	72	64	97	62	61	50	72	70	54	49
human power machine			30		23		29	25	23	18	16	18	14	19	17	16	15	9	11	16	11	17	17
hand tool			1,045		895		761	708	628	611	503	531	492	510	505	489	435	403	419	418	421	399	466
ladder			2,530		2,307		2,279	2,296	2,098	1,997	1,764	1,695	1,815	1,877	1,863	1,889	1,673	1,627	1,635	1,590	1,625	1,553	1,651

substances			56		38		38	29	41	37	29	19	29	27	28	31	30	41	34	34	50	51	43
metal material			1,924		1,664		1,550	1,533	1,439	1,277	1,063	1,059	1,066	1,087	1,085	1,080	1,007	899	987	967	947	913	883
lumber, bamboo			887		709		647	611	581	500	453	418	381	429	425	399	360	363	343	323	358	329	314
stone, sand, substance			475		401		342	309	274	231	201	195	197	202	191	227	139	169	151	164	173	152	155
other materials			635		491		458	452	442	374	298	330	354	340	334	360	309	285	260	248	256	294	295
load			599		474		428	424	440	402	370	332	316	319	363	342	318	289	314	322	366	362	337
machine/equipment as load			190		162		150	127	143	129	120	109	111	117	125	87	84	75	77	72	84	84	73
natural ground, rock			629		527		468	452	397	367	295	318	300	338	345	301	292	260	244	259	251	275	280
standing tree			230		197		218	185	201	209	229	200	201	188	195	187	211	175	188	209	174	179	168
water			17		19		16	19	6	18	11	12	173	15	5	19	9	6	13	14	10	16	14
abnormal environment			10		13		13	6	9	13	2	11	15	11	9	3	10	10	9	4	6	4	5
high/cold temperature environment			135		88		80	121	124	101	45	196	142	157	183	163	123	126	137	253	172	227	154
other environments			228		145		188	217	112	143	101	131	176	209	217	224	186	158	195	202	159	166	190
other causal agent			162		148		118	125	115	83	79	69	92	68	95	88	86	83	116	107	64	266	1,218
no causal agent			397		346		301	299	267	290	329	281	274	279	284	277	287	256	326	327	338	362	365
unclassifiable			39		25		26	33	29	32	25	25	12	15	17	20	15	8	13	10	12	3	8
total			28,284		24,543		22,869	22,386	20,764	19,280	16,268	16,143	16,983	17,073	17,189	17,184	15,584	15,058	15,129	15,374	15,183	14,977	16,079

Workers age of industrial accidents in construction in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
19 years old or	1,009	975	866	796	696	633	532	505	509	453	346	419	453	514	631	587	536	460	438	414	386	376	375

Ibaraki	623	560	528		447		457	406	389	366	319	307	464	438	358	375	350	364	380	330	296	295	387
Tochigi	412	403	368		309		302	286	280	303	246	244	264	271	245	214	240	242	211	193	209	200	227
Gunma	622	582	527		424		362	352	334	324	271	263	249	265	279	292	246	209	238	270	237	242	262
Saitama	983	1,037	1,002		1,018		942	932	997	893	747	737	783	748	755	857	684	604	657	650	611	618	720
Chiba	953	995	997		904		823	840	794	764	690	676	667	663	714	714	604	558	591	566	608	672	617
Tokyo	1,922	1,924	2,024		1,995		1,865	1,866	1,879	1,689	1,332	1,339	1,439	1,429	1,472	1,502	1,254	1,136	1,245	1,163	1,215	1,022	1,185
Kanagawa	1,519	1,523	1,485		1,365		1,220	1,294	1,208	1,069	851	890	914	907	871	857	781	821	730	727	808	824	814
Niigata	971	896	873		663		797	766	639	629	543	542	505	523	523	451	432	390	373	407	398	392	480
Toyama	420	366	380		270		317	250	240	211	200	196	209	238	184	177	188	162	171	177	182	188	214
Ishikawa	202	245	206		183		145	164	125	142	175	139	140	137	129	158	125	118	135	147	141	126	143
Fukui	285	281	254		204		204	198	183	173	133	147	152	150	113	121	145	104	113	146	158	144	177
Yamanashi	240	244	220		188		142	160	138	142	94	120	107	116	121	132	139	103	104	101	106	95	96
Nagano	649	580	583		501		407	385	378	338	293	298	276	283	279	325	326	270	261	283	281	282	305
Gifu	688	657	598		537		416	393	377	349	312	300	260	269	276	265	254	230	233	254	249	249	267
Shizuoka	977	966	861		748		709	715	695	681	542	529	522	538	545	512	430	436	421	442	467	459	428
Aichi	1,228	1,199	1,232		995		951	981	840	834	703	677	701	627	711	712	668	643	674	673	645	723	691
Mie	701	641	630		524		424	461	414	369	327	345	351	291	341	306	297	294	296	315	294	258	278
Shiga	286	279	262		255		191	257	202	227	159	137	153	162	144	155	149	118	124	127	148	148	168
Kyoto	650	672	604		530		502	481	455	399	325	328	351	358	341	353	308	271	304	296	268	295	275
Osaka	1,712	1,732	1,737		1,423		1,255	1,273	1,205	1,193	945	871	874	877	816	836	722	681	660	785	799	677	796
Hyogo	1,389	1,348	1,164		981		872	898	847	708	590	591	578	556	592	631	515	529	474	518	473	489	482
Nara	396	342	347		309		259	236	208	226	207	181	162	174	167	173	134	132	134	136	135	136	163
Wakayama	453	378	360		295		274	285	237	203	179	192	174	211	192	167	166	158	130	140	145	135	154
Tottori	165	169	160		144		123	104	98	79	63	58	87	78	76	84	73	73	95	84	98	88	80

Shimane	272	241	276		224		202	173	168	153	127	116	134	114	127	118	106	109	95	96	108	101	125
Okayama	604	573	555		438		427	383	371	320	254	279	278	285	296	310	273	236	264	260	270	248	266
Hiroshima	811	789	759		596		566	513	504	432	364	339	363	347	366	331	324	337	314	373	337	363	375
Yamaguchi	421	422	372		341		306	293	252	267	191	209	248	205	210	181	198	260	208	175	195	185	218
Tokushima	349	324	305		249		246	224	209	208	162	166	162	150	163	163	155	157	150	125	147	157	154
Kagawa	319	274	256		226		268	213	188	161	148	155	131	138	159	136	110	138	139	154	137	107	156
Ehime	549	506	496		386		335	314	274	235	180	205	197	234	203	181	196	175	199	224	183	192	220
Kochi	448	392	362		272		274	219	218	192	146	156	169	163	177	155	176	158	173	150	163	164	150
Fukuoka	1,253	1,226	1,132		975		1,066	946	906	811	672	657	644	672	686	717	620	631	641	669	571	621	710
Saga	238	250	233		196		203	190	165	162	151	145	157	160	208	172	179	153	165	161	152	195	155
Nagasaki	456	406	369		316		248	302	249	194	196	185	193	209	175	215	200	197	201	207	205	224	236
Kumamoto	534	473	397		383		346	339	334	274	286	274	251	273	321	266	286	339	401	335	295	315	288
Oita	564	480	453		401		355	335	309	270	238	214	227	217	255	255	210	228	207	225	222	219	201
Miyazaki	357	341	311		257		263	288	246	246	179	215	190	205	188	204	148	189	189	180	198	245	190
Kagoshima	466	468	376		374		372	349	307	285	240	242	263	267	309	267	290	314	312	294	312	305	299
Okinawa	140	167	130		129		167	138	150	169	165	153	164	169	156	189	172	152	212	192	212	178	206
total	30,905	29,747	28,284		24,543		22,869	22,386	20,764	19,280	16,268	16,143	16,983	17,073	17,189	17,184	15,584	15,058	15,129	15,374	15,183	14,977	16,079

Industrial accidents mean fatal and non-fatal injuries and occupational diseases 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 construction in Japan in 1999-2021

construction industry Code No.03

Type of fatal accidents in construction in 1999-2021

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
fall from height	325	301	269	256	247	260	203	190	207	172	147	159	160	157	160	148	128	134	135	136	110	95	110
falling to same level	22	21	17	15	13	13	11	6	10	6	9	11	6	9	9	10	11	5	7	6	6	6	5
crash	5	2	5	3	3	5	2	0	2	1	3	1	1	2	3	2	0	1	0	1	1	2	1
struck by flying or falling object	44	38	33	37	26	31	28	35	30	33	21	20	13	16	20	18	25	15	19	24	18	13	10
collapse	77	65	64	72	59	54	39	50	39	45	41	27	28	37	36	30	20	27	28	23	34	27	31
crashed by	57	62	45	32	23	37	38	39	32	33	26	19	22	32	27	26	29	22	23	18	26	13	19
caught in/between	92	76	66	66	58	51	50	45	44	38	40	35	29	35	19	38	34	19	28	30	16	27	27
cut	3	5	2	2	1	1	5	2	3	2	1	3	2	3	3	3	2	0	0	3	1	3	2
injury to the sole of the foot	1	0	1	1	1	1	1	1	2	0	0	2	1	0	0	1	0	1	0	0	0	0	0
drown	9	6	6	10	9	10	8	7	5	16	10	5	111	13	4	15	4	5	8	13	4	5	10
contact to high/low-temperature	14	16	18	17	9	11	7	15	8	9	5	19	9	11	10	6	12	7	8	11	10	9	11
contact to harmful substance	6	10	5	3	7	5	3	10	6	9	2	9	7	2	4	6	7	3	3	1	2	5	9
electric shock	23	15	15	11	4	18	21	12	9	15	8	6	4	7	1	9	8	8	5	5	2	3	8
explosion	2	0	0	2	0	5	3	0	2	2	0	2	0	2	1	2	1	0	0	1	1	2	0
burst	2	1	1	0	0	6	1	0	0	2	1	1	1	0	0	0	0	1	0	0	0	1	0
fire	3	6	6	1	7	0	1	13	7	4	8	4	0	1	3	5	6	1	1	2	2	1	1
traffic accident (public road)	96	104	87	66	70	74	60	63	48	37	39	39	51	29	33	45	28	39	50	31	27	37	25
traffic accident (others)	5	0	1	7	2	1	4	2	2	1	5	1	1	2	2	1	0	0	1	0	1	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
others	5	3	3	4	9	10	12	16	4	4	3	1	63	9	6	11	9	6	5	3	7	8	15
unclassifiable	3	0	0	2	0	1	0	2	1	1	2	1	1	0	1	1	3	0	2	1	1	0	3
total	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258	288

Causal agents (middle) of fatal accidents in construction in 1999-2021

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
engine	1	0	0	0	1	0	1	2	0	3	0	0	1	0	0	0	0	1	0	0	1	0	0
power transmission mechanism	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
woodworking machine	1	2	2	2	1	1	3	1	3	4	1	1	1	1	3	3	1	0	0	1	2	1	1
construction machine	126	118	88	78	81	71	68	71	55	64	58	49	38	50	41	50	30	38	39	38	31	37	35
metal manufacturing machine	2	1	0	2	2	0	0	1	0	0	0	2	1	1	0	1	0	2	0	0	0	0	1
general machine	6	6	4	5	1	5	5	5	3	1	4	3	6	4	3	4	4	2	3	4	1	4	6
mobile silviculture machine																	1	1	3	0	1	0	0
crane	27	41	38	23	27	24	28	21	26	11	17	16	18	21	15	23	20	13	13	18	16	12	12
conveying machine	93	90	80	71	53	71	58	53	54	38	41	39	30	37	25	33	32	34	44	28	27	25	29
vehicle	65	59	48	46	39	40	42	38	21	23	25	23	35	20	21	30	21	18	26	17	15	24	14
pressure vessel	0	2	0	3	0	6	1	0	0	0	0	3	1	0	0	0	1	1	0	0	0	0	0
chemical facilities	0	0	0	1	0	1	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	0	0
welding equipment	1	0	2	1	1	2	1	1	1	2	3	5	2	0	0	2	4	0	1	3	1	1	0
kiln, caldron	1	0	0	5	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
electric equipment	25	12	14	10	3	14	16	9	10	17	8	7	3	6	4	10	8	11	7	5	2	3	7
human power machine, tools	3	3	1	1	3	1	1	2	2	2	2	0	2	1	1	0	1	0	1	2	1	2	1

leveling, transporting or loading machine	19	15	12	11	6	12	13	8	17	4	10	9	4	4	4	5	3	8	4	9	3	5	5
excavating machine	68	68	51	38	46	28	29	37	21	28	19	22	20	22	25	23	14	13	19	12	14	16	12
foundation work machine	5	3	6	4	3	2	7	0	1	3	2	0	2	1	0	2	1	0	2	4	0	3	1
hardening machine	15	8	8	12	8	7	9	8	0	7	3	7	2	1	1	4	1	4	2	2	2	4	4
demolition machine	2	3	2	2	3	5	0	0	2	3	3	1	2	2	2	6	6	8	4	4	5	1	4
vehicle for high lift work	4	8	3	4	3	4	3	8	8	7	7	4	2	6	4	7	2	2	4	3	3	5	7
other construction machines	13	13	6	7	12	13	7	10	6	12	14	6	6	14	5	3	3	3	4	4	4	3	2
lathe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
drill press, milling machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
grinding machine, buffing machine	1	1	0	1	1	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	1
power press	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
forging pressure hammer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
shearing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
other metal manufacturing machines	1	0	0	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
centrifugal machine	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mixer, grinder	2	2	1	1	0	0	1	0	0	0	0	2	1	1	2	1	0	0	1	1	0	1	1
roll machine (except printingroll machine)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
injection molding machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
food manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
printing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
industrial robot	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
other general power machines	4	4	2	4	1	5	4	4	3	1	4	1	5	2	1	3	4	2	1	3	1	2	5
felling machine																	0	1	1	0	1	0	0
mobile logging machine																	1	0	2	0	0	0	0

other pressure vessels	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	1	0	1	0	0	1	2	0	0	0	0	0	2	0	0	0	0	0	0	0
gas welding equipment	0	0	1	0	0	0	0	0	0	1	2	2	0	0	0	0	3	0	0	3	0	1	0
arc welding equipment	1	0	1	1	1	2	1	1	1	1	1	3	2	0	0	2	1	0	1	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	0	0	0	0
kiln, caldron	1	0	0	5	0	1	0	0	0	0	0	0	0	0	1	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	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	0	0	0	0
transmission	13	9	5	9	2	13	11	5	6	12	5	5	3	4	4	6	7	8	6	5	2	3	5
electric power facilities	9	2	6	1	1	1	4	3	4	2	3	2	0	2	0	3	0	2	1	0	0	0	1
other electrical equipment	3	1	3	0	0	0	1	1	0	3	0	0	0	0	0	1	1	1	0	0	0	0	1
human power cranes	1	1	0	1	1	0	0	2	1	1	1	0	1	1	1	0	1	0	1	1	1	1	1
human power hauling equipment	0	2	0	0	1	0	1	0	0	1	1	0	1	0	0	0	0	0	0	1	0	0	0
human power machine	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hand tool	2	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
ladder	25	18	24	18	19	21	15	15	13	10	13	19	12	14	18	13	9	7	13	11	9	6	19
slinging tool	13	10	11	8	6	10	5	12	8	9	6	6	4	3	3	3	7	6	4	5	2	3	3
other tools	1	4	5	2	6	1	7	4	1	3	2	1	3	1	2	2	2	1	0	1	3	0	3
other equipment, facilities	7	5	3	3	3	4	7	4	1	5	6	2	3	3	1	6	2	3	1	1	2	6	1
scaffolding	75	51	54	48	53	48	39	29	36	35	26	45	26	25	32	35	27	16	31	23	23	17	14
timbering	5	2	7	3	0	4	0	2	1	1	2	2	3	7	1	1	2	0	2	0	0	0	1
stairs, landing stage	5	4	2	3	4	5	2	2	7	2	4	0	3	2	3	3	1	1	1	3	3	2	3
opening	8	15	16	17	8	19	10	18	13	9	10	5	11	13	7	6	9	6	7	14	6	4	11
roof, beam, haze, crossbeam, principal rafter	78	67	69	70	58	72	49	53	53	47	31	36	44	42	50	33	41	40	30	44	29	22	19

working platform, boot board	17	12	6	11	16	10	4	7	9	12	9	4	10	4	6	5	4	5	3	4	5	2	7
passage	4	5	5	3	2	2	1	2	4	0	2	4	1	2	1	2	2	2	2	5	4	1	4
building, establishment	65	71	52	53	50	40	43	40	41	46	30	25	24	35	22	32	19	34	25	19	15	21	25
other temporary buildings, establishments	7	12	13	12	17	15	8	11	9	7	10	9	5	7	2	7	6	3	12	4	6	8	1
explosive substance	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable substance	0	5	0	0	6	0	0	8	6	1	2	0	0	1	1	0	2	1	0	0	0	1	1
inflammable gas	1	0	0	2	0	3	2	0	1	2	0	1	0	3	2	0	2	0	0	1	2	1	0
harmful substance	5	4	1	1	4	3	2	2	7	2	2	5	3	1	2	6	4	2	1	1	0	2	2
radiation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances	2	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	1
metal material	11	4	5	6	3	7	8	6	8	6	4	0	3	4	4	5	1	0	5	4	2	5	3
lumber, bamboo	2	5	1	4	0	6	2	4	1	2	2	1	1	2	1	0	1	0	0	0	1	1	0
stone, sand, substance	1	1	0	2	1	1	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	1
other materials	3	2	2	2	2	0	1	0	1	2	1	2	3	0	0	0	0	1	1	0	0	2	2
load	9	3	7	4	4	4	4	1	1	5	1	3	0	1	5	1	2	3	2	3	7	1	0
machine/equipment as load	1	3	1	0	0	1	3	3	4	0	0	1	2	3	2	0	2	1	1	2	1	3	1
natural ground, rock	59	45	46	45	40	40	23	24	33	26	23	15	19	16	28	20	15	16	15	14	18	13	16
standing tree	7	15	7	12	3	7	9	9	8	3	7	7	6	9	10	11	15	9	6	9	10	5	2
water	6	5	4	5	7	8	4	5	3	10	5	1	163	6	3	5	1	2	5	5	3	4	5
abnormal environment	1	6	2	0	3	2	1	3	0	4	0	2	1	1	1	0	1	0	1	0	1	1	6
high/cold temperature environment	13	14	19	19	11	11	12	14	9	8	5	17	8	10	9	6	11	7	8	10	10	8	11
other environments	5	5	0	0	5	7	5	15	0	2	2	1	7	1	5	4	1	0	1	4	0	3	5
other causal agent	1	1	4	1	4	3	4	4	0	0	1	1	0	0	0	3	2	1	0	0	0	4	10
no causal agent	1	0	0	0	0	1	1	5	4	2	3	1	6	8	5	7	9	5	6	4	8	3	3

unclassifiable	4	3	0	4	0	1	1	2	2	1	2	1	1	1	2	3	3	1	2	0	0	0	2
total	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258	288

Workers age of fatal accidents in construction in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
19 years old or less	8	17	12	6	13	11	9	6	6	8	6	11	5	8	12	10	6	4	6	3	2	5	1
20-29	108	94	82	100	79	63	62	61	56	36	51	45	46	31	30	35	32	34	37	33	30	23	31
30-39	76	75	93	75	56	81	62	77	72	66	53	57	67	60	43	53	33	45	37	40	30	30	28
40-49	150	122	100	81	80	84	74	66	54	80	53	44	90	53	51	69	58	58	75	48	45	54	49
50-59	231	206	190	179	175	187	162	173	129	106	100	96	145	91	73	81	73	60	59	61	53	59	70
60 years old or more	221	217	167	166	145	168	128	125	144	134	108	112	157	124	133	129	125	93	109	124	109	87	109
total	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258	288

Workers' number of workplace of fatal accidents in construction in 1999-2021

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
9 workers or less	353	347	309	325	277	325	258	295	266	235	195	204	281	203	195	186	183	146	194	166	151	145	157
10-29	294	253	211	173	178	190	161	152	136	132	109	121	152	114	96	128	99	98	92	97	84	79	84
30-49	88	68	70	63	56	44	47	31	35	36	45	21	51	28	22	36	25	33	21	20	18	26	27
50-99	40	38	33	26	30	18	22	18	14	17	18	13	14	10	14	18	16	10	12	18	7	5	9
100-299	16	21	19	16	7	12	7	9	8	9	3	6	12	12	13	8	4	7	3	8	8	2	10
300 workers or more	3	4	2	4	0	5	2	3	2	1	1	0	0	0	2	1	0	0	1	0	1	1	1
total	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258	288

Akita	13	6	5	4	5	5	5	10	7	6	5	6	3	2	13	5	11	5	6	7	1	2	4
Yamagata	12	6	9	7	1	5	3	6	1	3	2	5	2	8	6	8	2	3	2	4	4	4	3
Fukushima	20	11	13	16	12	11	15	7	8	12	8	6	35	11	17	11	14	10	8	7	7	13	7
Ibaraki	14	11	18	27	12	17	12	9	19	9	8	7	16	11	12	10	12	11	8	10	8	4	7
Tochigi	14	12	12	9	7	12	7	8	4	6	4	9	8	5	2	6	5	4	3	1	3	3	6
Gunma	14	5	13	10	8	9	9	5	8	7	6	6	3	5	4	12	3	3	3	6	0	2	6
Saitama	19	24	24	23	20	25	21	16	11	18	16	12	9	13	12	16	15	6	13	12	10	8	11
Chiba	24	23	27	31	27	28	15	27	20	17	17	17	11	14	17	24	15	12	10	10	12	12	5
Tokyo	54	57	52	40	33	41	37	41	42	28	20	25	26	26	26	37	29	25	28	19	13	14	28
Kanagawa	29	37	28	17	30	36	23	21	23	14	22	17	23	16	13	12	10	9	6	10	10	14	21
Niigata	26	9	12	13	11	16	22	14	11	13	11	8	6	13	13	5	5	5	3	9	8	7	2
Toyama	6	5	13	7	4	4	7	9	5	2	2	6	10	3	2	4	4	2	4	5	4	3	5
Ishikawa	5	7	2	6	6	11	4	2	4	5	5	3	3	5	1	6	2	2	7	3	3	2	3
Fukui	7	6	4	7	3	12	5	5	5	8	3	4	4	3	2	3	4	2	3	4	1	3	3
Yamanashi	7	12	9	9	7	6	1	5	6	7	3	6	3	3	4	6	3	5	2	2	1	4	2
Nagano	15	15	20	14	8	5	10	8	6	7	9	11	10	7	8	10	3	5	5	3	4	2	7
Gifu	12	26	7	13	20	10	10	9	8	6	4	11	5	3	2	3	9	8	6	7	1	4	6
Shizuoka	20	17	16	21	18	18	10	20	18	20	12	12	15	12	5	8	13	7	4	11	4	6	10
Aichi	28	28	35	26	33	31	19	29	21	25	10	16	13	12	16	19	18	7	15	10	16	13	5
Mie	17	18	12	9	10	9	10	9	11	9	3	10	4	4	5	7	6	6	7	8	5	7	6
Shiga	6	12	4	10	9	7	8	4	4	4	6	1	4	4	3	2	2	3	3	3	2	6	1
Kyoto	12	14	11	11	8	3	9	6	10	11	8	7	4	4	4	3	7	2	10	3	7	2	1
Osaka	22	31	33	26	30	21	31	37	35	28	20	18	20	16	21	14	13	11	20	25	20	12	15
Hyogo	36	37	26	24	29	25	13	21	16	12	22	21	11	16	9	12	10	7	12	12	11	12	8

Nara	9	6	6	2	5	5	3	1	6	4	4	5	3	5	4	8	4	2	2	3	3	3	5
Wakayama	10	9	6	6	5	7	3	6	8	5	5	2	5	4	3	1	1	7	3	2	5	3	3
Tottori	12	5	4	7	2	2	1	4	1	2	3	1	1	2	3	2	0	0	2	0	1	5	4
Shimane	12	4	7	2	8	0	2	8	6	2	6	3	4	2	4	4	0	4	0	3	2	2	2
Okayama	16	17	13	19	5	9	12	8	7	4	8	6	7	12	11	6	2	4	4	4	5	6	5
Hiroshima	18	20	18	11	7	23	13	6	12	7	4	7	8	7	9	8	3	4	8	7	4	2	3
Yamaguchi	18	15	10	6	9	9	4	12	8	0	7	2	4	4	4	8	5	8	7	5	5	4	4
Tokushima	11	6	6	8	6	9	7	2	5	3	2	2	2	3	4	5	0	2	4	4	3	3	3
Kagawa	13	2	3	12	2	6	7	7	6	4	2	3	2	5	0	2	2	2	3	2	0	2	3
Ehime	10	13	9	11	12	10	7	11	6	5	3	6	3	4	3	2	5	3	6	9	10	3	3
Kochi	14	9	8	8	4	9	9	3	3	3	3	2	3	8	5	4	2	6	3	4	6	0	2
Fukuoka	32	26	19	25	23	19	21	18	16	24	16	13	12	17	12	12	13	10	8	12	4	9	12
Saga	6	6	5	3	1	4	6	6	1	3	0	6	0	2	3	1	3	6	4	3	0	4	3
Nagasaki	11	13	12	7	9	11	8	6	3	9	9	2	6	4	6	3	7	7	3	5	4	4	7
Kumamoto	16	16	9	3	15	11	7	8	5	6	6	8	4	7	5	4	4	9	13	7	3	7	3
Oita	16	11	10	7	6	6	12	3	6	8	5	2	4	10	2	5	5	5	9	3	3	3	4
Miyazaki	12	10	10	10	9	9	4	7	5	1	1	3	3	1	3	3	5	5	3	1	5	5	4
Kagoshima	26	12	8	9	4	15	10	9	10	7	5	9	4	5	5	6	5	4	8	4	6	3	1
Okinawa	7	5	4	6	3	5	3	10	5	5	9	5	6	0	2	4	5	2	7	4	8	7	6
total	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258	288

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