



contact to harmful substance	99	120	108	95	122	96	103	118	86	84	59	69	82	72	62	74	75	95	76	91	86	76
electric shock	86	91	68	72	47	71	66	51	66	67	44	50	35	41	45	59	43	35	27	47	37	36
explosion	36	24	39	19	12	22	24	17	19	14	14	21	6	17	11	10	8	4	10	7	5	11
burst	22	15	17	18	12	24	12	10	10	8	11	5	9	9	6	7	6	8	7	8	6	8
fire	26	27	30	30	37	19	15	40	29	26	21	23	15	14	10	20	17	16	11	36	25	10
traffic accident (public road)	903	811	779	787	767	686	737	720	605	588	464	526	563	631	624	671	594	658	587	598	559	542
traffic accident (others)	25	12	8	17	3	5	18	9	9	4	5	4	6	7	5	11	3	4	8	8	9	5
reaction to motion/improper motion	1,351	1,325	1,369	1,127	1,110	1,009	995	1,020	1,036	947	860	882	865	812	873	844	793	813	880	875	885	947
others	115	124	112	81	111	124	114	136	105	98	78	69	150	96	86	78	87	68	95	77	72	270
unclassifiable	36	35	26	22	22	18	18	39	22	16	15	9	7	11	20	14	12	10	10	12	14	7
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

Causal agents (middle) of industrial accidents in construction 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	17	20	9	6	8	8	12	7	11	19	6	6	2	10	10	4	5	10	8	8	3	3
power transmission	29	27	38	20	28	29	28	20	28	26	16	15	15	18	15	12	17	14	16	15	14	9

mechanism																						
woodworking machine	2,304	2,199	2,054	1,867	1,802	1,574	1,414	1,302	1,231	1,141	972	896	900	851	882	790	646	672	613	602	597	581
construction machine	2,139	1,984	1,804	1,734	1,540	1,499	1,503	1,400	1,257	1,245	1,089	1,092	1,098	1,148	1,133	1,176	1,040	1,003	973	981	1,010	984
metal manufacturing machine	586	579	559	571	510	467	463	460	434	432	371	375	381	384	327	372	332	339	339	338	299	298
general machine	686	665	607	594	542	543	471	485	468	395	399	397	414	366	365	368	375	351	332	322	358	366
mobile silviculture machine																	10	8	12	7	8	9
crane	868	903	806	805	756	680	709	648	607	628	515	455	485	473	531	487	472	436	450	475	471	450
conveying machine	2,109	2,078	1,986	1,947	1,771	1,662	1,657	1,599	1,519	1,395	1,201	1,200	1,269	1,268	1,372	1,306	1,239	1,219	1,256	1,277	1,254	1,215
vehicle	781	659	613	639	633	585	619	600	505	496	445	459	467	533	510	587	512	518	486	477	480	482
pressure vessel	34	31	28	31	36	38	25	22	19	27	14	23	17	19	14	16	11	21	15	17	9	14
chemical facilities	10	3	2	4	5	11	4	8	9	7	4	3	5	4	1	8	5	1	0	7	3	2
welding equipment	50	45	50	39	40	37	41	23	42	29	35	39	25	17	25	27	32	20	18	48	25	16
kiln, caldron	17	13	12	26	17	15	12	16	9	4	14	9	6	2	9	7	11	5	6	4	10	13
electric	127	111	128	114	91	107	105	85	107	89	80	81	65	74	79	88	75	82	72	79	75	68

equipment																						
human power machine, tools	1,356	1,239	1,193	1,103	1,037	978	886	839	761	754	598	621	622	616	608	628	524	488	498	519	522	500
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
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
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
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
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
load	738	756	789	706	636	624	578	551	583	531	490	441	427	436	488	429	402	364	391	394	450	446
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
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
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
unclassifiable	43	48	39	35	25	31	26	33	29	32	25	25	12	15	17	20	15	8	13	10	12	3
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

Causal agents (small) of industrial accidents in construction 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			9		8		12	7	11	19	6	6	2	10	10	4	5	10	8	8	3	3
power transmission mechanism			38		28		28	20	28	26	16	15	15	18	15	12	17	14	16	15	14	9
circular sawing machine			1,228		1,065		840	795	752	672	553	517	533	510	536	459	345	350	329	324	320	267
band sawing machine			23		25		19	15	11	18	13	8	8	8	9	7	7	7	4	3	1	4
wood planer machine			340		270		188	167	139	169	110	103	79	90	75	61	58	70	53	59	37	55
hollow chisel mortiser, wood borer			57		41		29	20	20	18	14	14	10	11	8	10	8	7	7	4	4	7
chamfering machine, router, woodworking milling machine			17		8		15	14	8	6	10	5	5	2	2	3	2	2	1	7	2	1
chain saw			107		118		96	106	100	78	118	107	104	109	93	125	113	114	122	107	125	148
other woodworking machines			282		275		227	185	201	180	154	142	161	121	159	125	113	122	97	98	108	99
leveling, transporting or loading machine			220		224		173	191	153	143	124	157	126	134	138	127	142	126	136	142	118	106
excavating machine			825		661		678	588	532	527	445	444	475	498	485	495	399	403	404	410	447	470
foundation work machine			98		70		74	79	63	55	46	44	50	62	52	54	65	53	51	56	47	58
hardening machine			153		113		82	92	82	84	77	85	60	70	50	71	67	59	45	46	57	44
demolition machine			110		107		117	109	104	109	103	84	95	91	144	153	148	144	143	129	127	123
vehicle for high lift			60		71		71	83	82	80	74	62	55	57	48	61	66	56	59	59	82	58



industrial robot			0	2	0	1	0	1	2	0	1	0	1	1	1	0	0	1	1	1
other general power machines			549	495	426	434	415	350	365	348	372	328	322	328	346	329	302	278	325	333
felling machine															9	6	8	7	6	7
mobile logging machine															1	1	4	0	1	1
skyline yarding machine															0	1	0	0	0	1
other mobile silviculture machine															0	0	0	0	1	0
crane			151	148	130	137	140	110	95	74	99	88	93	86	77	68	87	76	93	91
mobile crane			528	496	479	414	390	427	360	322	312	318	370	347	322	313	309	349	319	309
derrick crane			0	0	0	2	0	2	0	1	1	2	0	2	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
cargo lifting appliance			2	3	1	0	1	0	0	0	1	0	1	2	0	0	3	0	2	0
gondola			8	5	5	3	3	6	5	4	7	2	7	4	0	2	7	3	4	2
lumberyard equipment, logging cableway			1	1	2	3	4	6	2	3	2	3	0	0	0	1	1	0	1	0
simple skyline yarding equipment															1	0	0	1	0	1
other powered crane			72	72	67	59	50	52	31	41	41	37	48	28	49	36	31	31	36	28
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
forklift			69	68	82	71	72	63	47	43	55	52	70	49	51	52	56	64	72	64

railway equipment			9		3		6	8	7	7	6	5	9	4	8	6	14	2	3	6	5	6
conveyor			45		48		40	36	25	32	18	16	30	24	15	16	14	25	22	29	17	25
loader			14		13		12	12	7	9	5	3	3	3	8	7	4	5	3	4	9	5
straddle carrier			0		1		1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
rough terrain hauler			34		27		20	23	14	22	30	9	17	11	15	21	17	6	18	15	18	14
other powered conveying machines			88		66		61	48	56	39	37	37	41	46	54	42	33	32	32	45	26	26
cars, bus, motorcycle			581		602		581	574	478	468	412	428	448	514	488	569	491	490	464	462	455	462
railway vehicle			5		3		9	3	1	2	8	3	2	2	4	3	4	6	5	1	4	4
other vehicles			27		28		29	23	26	26	25	28	17	17	18	15	17	22	17	14	21	16
boiler			8		4		6	6	5	2	1	10	1	5	3	5	1	6	2	5	3	2
pressure vessel			4		9		5	3	4	5	3	3	4	2	3	0	2	2	3	1	1	2
other pressure vessels			16		23		14	13	10	20	10	10	12	12	8	11	8	13	10	11	5	10
chemical facilities			2		5		4	8	9	7	4	3	5	4	1	8	5	1	0	7	3	2
gas welding equipment			29		23		26	14	22	10	18	23	17	9	12	13	16	10	10	36	18	6
arc welding equipment			18		14		12	5	15	12	13	14	8	3	10	12	13	7	6	9	6	10
other welding equipment			3		3		3	4	5	7	4	2	0	5	3	2	3	3	2	3	1	0
kiln, caldron			11		12		10	12	8	3	10	7	6	2	5	5	11	3	6	3	8	11
industrial dryer			0		1		1	1	1	0	1	1	0	0	2	0	0	1	0	0	0	1
other kiln, caldron			1		4		1	3	0	1	3	1	0	0	2	2	0	1	0	1	2	1
transmission			50		46		55	40	57	49	38	35	29	39	39	44	41	39	46	51	41	29
electric power facilities			36		16		25	22	37	19	24	23	18	21	22	32	15	19	15	18	15	18



other electrical equipment			42		29		25	23	13	21	18	23	18	14	18	12	19	24	11	10	19	21
human power cranes			27		35		23	22	28	27	17	14	33	15	22	26	12	15	18	13	20	30
human power hauling equipment			91		84		73	84	82	98	62	58	83	72	64	97	62	61	50	72	70	54
human power machine			30		23		29	25	23	18	16	18	14	19	17	16	15	9	11	16	11	17
hand tool			1,045		895		761	708	628	611	503	531	492	510	505	489	435	403	419	418	421	399
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
slinging tool			210		198		209	171	177	168	134	135	116	130	119	109	111	122	129	104	100	109
other tools			407		325		307	347	352	337	236	220	279	248	244	257	226	247	268	239	241	233
other equipment, facilities			268		223		232	219	242	221	177	193	187	202	197	233	204	192	168	208	158	209
scaffolding			2,038		1,766		1,664	1,659	1,569	1,376	995	910	1,069	1,060	1,177	1,155	982	940	886	853	946	788
timbering			205		129		112	158	148	98	79	78	73	71	76	62	72	60	47	58	44	34
stairs, landing stage			465		447		429	410	415	376	330	316	320	368	334	370	357	375	358	355	384	402
opening			292		240		235	243	241	208	178	137	158	161	179	163	182	190	139	199	187	174
roof, beam, haze, crossbeam, principal rafter			1,827		1,594		1,586	1,381	1,141	1,086	899	969	1,079	1,098	1,025	963	895	846	801	864	778	672
working platform, boot board			716		666		510	586	558	547	432	392	420	431	388	445	380	350	406	364	376	339
passage			763		679		731	703	658	613	521	545	602	553	566	611	542	626	641	696	667	711
building, establishment			1,419		1,110		1,020	1,155	998	894	773	784	829	820	823	813	748	693	739	728	698	660

other temporary buildings, establishments			506		474		454	457	426	395	282	303	346	373	357	360	379	336	340	348	358	345
explosive substance			6		3		8	7	7	2	2	2	1	0	3	1	4	1	0	1	1	1
inflammable substance			42		36		25	41	44	25	15	24	9	22	11	15	12	17	21	15	20	20
inflammable gas			31		23		23	23	17	20	15	23	20	31	11	14	12	11	13	13	11	9
harmful substance			56		60		55	74	46	23	27	41	50	44	34	40	33	35	37	48	31	25
radiation			1		0		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances			56		38		38	29	41	37	29	19	29	27	28	31	30	41	34	34	50	51
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
lumber, bamboo			887		709		647	611	581	500	453	418	381	429	425	399	360	363	343	323	358	329
stone, sand, substance			475		401		342	309	274	231	201	195	197	202	191	227	139	169	151	164	173	152
other materials			635		491		458	452	442	374	298	330	354	340	334	360	309	285	260	248	256	294
load			599		474		428	424	440	402	370	332	316	319	363	342	318	289	314	322	366	362
machine/equipment as load			190		162		150	127	143	129	120	109	111	117	125	87	84	75	77	72	84	84
natural ground, rock			629		527		468	452	397	367	295	318	300	338	345	301	292	260	244	259	251	275
standing tree			230		197		218	185	201	209	229	200	201	188	195	187	211	175	188	209	174	179
water			17		19		16	19	6	18	11	12	173	15	5	19	9	6	13	14	10	16
abnormal environment			10		13		13	6	9	13	2	11	15	11	9	3	10	10	9	4	6	4
high/cold temperature environment			135		88		80	121	124	101	45	196	142	157	183	163	123	126	137	253	172	227
other environments			228		145		188	217	112	143	101	131	176	209	217	224	186	158	195	202	159	166

other causal agent			162		148		118	125	115	83	79	69	92	68	95	88	86	83	116	107	64	266
no causal agent			397		346		301	299	267	290	329	281	274	279	284	277	287	256	326	327	338	362
unclassifiable			39		25		26	33	29	32	25	25	12	15	17	20	15	8	13	10	12	3
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

#### Workers age of industrial accidents in construction 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	1,009	975	866	796	696	633	532	505	509	453	346	419	453	514	631	587	536	460	438	414	386	376
20-29	6,107	6,067	5,947	5,580	4,827	4,371	4,223	3,958	3,404	3,083	2,531	2,435	2,540	2,532	2,541	2,466	2,209	2,258	2,309	2,325	2,362	2,606
30-39	4,313	4,321	4,399	4,278	4,376	4,480	4,377	4,527	4,304	3,902	3,403	3,468	3,615	3,542	3,319	3,216	2,801	2,642	2,523	2,536	2,402	2,380
40-49	5,735	5,262	4,852	4,305	3,991	3,793	3,480	3,426	3,168	3,069	2,698	2,771	3,013	3,263	3,305	3,432	3,206	3,160	3,212	3,292	3,197	3,077
50-59	7,756	7,622	7,305	6,769	6,449	6,330	6,181	6,015	5,497	4,978	3,995	3,581	3,711	3,416	3,379	3,218	2,927	2,715	2,781	2,815	2,875	2,782
60 years old or more	5,985	5,500	4,915	4,571	4,204	4,202	4,076	3,955	3,882	3,795	3,295	3,469	3,651	3,806	4,014	4,265	3,905	3,823	3,866	3,992	3,961	3,756
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

#### Workers' number of workplace of industrial accidents in construction 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	18,504	17,943	17,127	16,169	15,251	14,997	14,372	13,951	13,067	12,039	10,200	10,152	10,504	10,502	10,502	10,442	9,420	9,005	8,959	9,099	8,866	8,413
10-29	8,919	8,432	7,987	7,243	6,688	6,245	6,119	6,024	5,538	5,172	4,356	4,384	4,560	4,688	4,718	4,739	4,270	4,210	4,234	4,313	4,329	4,527

30-49	2,072	1,986	1,841	1,690	1,477	1,491	1,343	1,383	1,235	1,236	993	937	1,144	1,094	1,098	1,178	1,106	1,066	1,170	1,176	1,171	1,184
50-99	899	914	844	796	734	711	677	701	606	543	482	420	511	511	557	544	531	501	494	514	511	529
100-299	434	394	403	341	326	307	300	267	250	236	189	198	218	226	264	229	206	234	223	217	229	250
300 workers or more	77	78	82	60	67	58	58	60	68	54	48	52	46	52	50	52	51	42	49	55	77	74
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

Month of industrial accidents in construction 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	2,349	2,188	2,069	1,962	1,855	1,854	1,747	1,749	1,556	1,524	1,309	1,243	1,291	1,309	1,353	1,339	1,281	1,159	1,215	1,193	1,188	1,060
February	2,529	2,554	2,401	2,170	2,115	1,968	1,894	1,861	1,776	1,750	1,440	1,358	1,310	1,493	1,317	1,437	1,245	1,320	1,213	1,246	1,254	1,278
March	2,729	2,677	2,740	2,338	2,265	2,071	1,997	1,897	1,888	1,765	1,408	1,435	1,611	1,448	1,470	1,505	1,317	1,275	1,307	1,324	1,311	1,295
April	2,372	2,301	2,239	2,151	1,923	1,778	1,866	1,658	1,542	1,579	1,206	1,229	1,205	1,252	1,324	1,454	1,207	1,181	1,147	1,177	1,223	1,217
May	2,406	2,216	2,201	2,088	1,896	1,721	1,735	1,730	1,617	1,524	1,218	1,189	1,224	1,399	1,375	1,396	1,126	1,161	1,146	1,139	1,171	1,061
June	2,619	2,450	2,373	2,127	1,952	1,953	1,926	1,810	1,811	1,565	1,352	1,344	1,411	1,401	1,363	1,332	1,330	1,241	1,283	1,274	1,176	1,261
July	2,774	2,710	2,645	2,429	2,203	2,289	2,044	1,895	1,837	1,818	1,459	1,463	1,512	1,526	1,618	1,639	1,520	1,413	1,465	1,546	1,445	1,313
August	2,591	2,616	2,232	2,191	2,050	1,938	1,992	2,062	1,835	1,582	1,381	1,421	1,542	1,510	1,495	1,400	1,299	1,345	1,319	1,349	1,287	1,363
September	2,747	2,476	2,341	2,188	2,145	2,165	1,931	2,009	1,785	1,616	1,362	1,408	1,428	1,412	1,429	1,451	1,402	1,344	1,178	1,285	1,359	1,359
October	2,736	2,690	2,543	2,392	2,251	2,075	1,931	2,025	1,796	1,711	1,471	1,417	1,517	1,523	1,522	1,561	1,440	1,305	1,289	1,424	1,374	1,251
November	2,674	2,495	2,377	2,252	1,927	2,103	2,023	1,947	1,768	1,499	1,368	1,352	1,474	1,425	1,540	1,364	1,276	1,226	1,337	1,306	1,280	1,300
December	2,379	2,374	2,123	2,011	1,961	1,894	1,783	1,743	1,553	1,347	1,294	1,284	1,458	1,375	1,383	1,306	1,141	1,088	1,230	1,111	1,115	1,219
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



Nagano	649	580	583		501		407	385	378	338	293	298	276	283	279	325	326	270	261	283	281	282
Gifu	688	657	598		537		416	393	377	349	312	300	260	269	276	265	254	230	233	254	249	249
Shizuoka	977	966	861		748		709	715	695	681	542	529	522	538	545	512	430	436	421	442	467	459
Aichi	1,228	1,199	1,232		995		951	981	840	834	703	677	701	627	711	712	668	643	674	673	645	723
Mie	701	641	630		524		424	461	414	369	327	345	351	291	341	306	297	294	296	315	294	258
Shiga	286	279	262		255		191	257	202	227	159	137	153	162	144	155	149	118	124	127	148	148
Kyoto	650	672	604		530		502	481	455	399	325	328	351	358	341	353	308	271	304	296	268	295
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
Hyogo	1,389	1,348	1,164		981		872	898	847	708	590	591	578	556	592	631	515	529	474	518	473	489
Nara	396	342	347		309		259	236	208	226	207	181	162	174	167	173	134	132	134	136	135	136
Wakayama	453	378	360		295		274	285	237	203	179	192	174	211	192	167	166	158	130	140	145	135
Tottori	165	169	160		144		123	104	98	79	63	58	87	78	76	84	73	73	95	84	98	88
Shimane	272	241	276		224		202	173	168	153	127	116	134	114	127	118	106	109	95	96	108	101
Okayama	604	573	555		438		427	383	371	320	254	279	278	285	296	310	273	236	264	260	270	248
Hiroshima	811	789	759		596		566	513	504	432	364	339	363	347	366	331	324	337	314	373	337	363
Yamaguchi	421	422	372		341		306	293	252	267	191	209	248	205	210	181	198	260	208	175	195	185
Tokushima	349	324	305		249		246	224	209	208	162	166	162	150	163	163	155	157	150	125	147	157
Kagawa	319	274	256		226		268	213	188	161	148	155	131	138	159	136	110	138	139	154	137	107
Ehime	549	506	496		386		335	314	274	235	180	205	197	234	203	181	196	175	199	224	183	192
Kochi	448	392	362		272		274	219	218	192	146	156	169	163	177	155	176	158	173	150	163	164
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
Saga	238	250	233		196		203	190	165	162	151	145	157	160	208	172	179	153	165	161	152	195
Nagasaki	456	406	369		316		248	302	249	194	196	185	193	209	175	215	200	197	201	207	205	224

Kumamoto	534	473	397		383		346	339	334	274	286	274	251	273	321	266	286	339	401	335	295	315
Oita	564	480	453		401		355	335	309	270	238	214	227	217	255	255	210	228	207	225	222	219
Miyazaki	357	341	311		257		263	288	246	246	179	215	190	205	188	204	148	189	189	180	198	245
Kagoshima	466	468	376		374		372	349	307	285	240	242	263	267	309	267	290	314	312	294	312	305
Okinawa	140	167	130		129		167	138	150	169	165	153	164	169	156	189	172	152	212	192	212	178
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

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](https://www.jisha.or.jp/english/statistics/2020e_industry.html)

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### Fatal accidents in construction in Japan in 1999-2020

construction industry Code No.03

### Type of fatal accidents in construction 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	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	22	21	17	15	13	13	11	6	10	6	9	11	6	9	9	10	11	5	7	6	6	6
crash	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	44	38	33	37	26	31	28	35	30	33	21	20	13	16	20	18	25	15	19	24	18	13







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

Causal agents (small) of fatal accidents in construction 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	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	0	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0
circular sawing machine	1	2	2	2	1	1	3	1	2	2	1	1	0	1	3	3	1	0	0	1	1	0
band sawing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wood planer machine	0	0	0	0	0	0	0	0	0	0	0	0	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	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	0	0	0	0
chain saw	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1
other woodworking machines	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
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
excavating machine	68	68	51	38	46	28	29	37	21	28	19	22	20	22	25	23	14	13	19	12	14	16
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
hardening machine	15	8	8	12	8	7	9	8	0	7	3	7	2	1	1	4	1	4	2	2	2	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
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
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

lathe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	0
power press	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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	0	1	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	0	1	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	0	1
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	2
felling machine																		0	1	1	0	1	0
mobile logging machine																		1	0	2	0	0	0
skyline yarding machine																		0	0	0	0	0	0
other mobile silviculture machine																		0	0	0	0	0	0
crane	7	6	4	3	3	4	5	1	4	2	3	1	5	2	2	7	2	3	1	0	3	0	0
mobile crane	17	25	29	19	16	19	13	16	15	5	11	12	5	14	11	14	15	8	12	17	11	10	10
derrick crane	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
elevator, lift	1	7	3	0	5	0	4	3	2	2	3	2	4	5	0	0	2	2	0	0	1	2	2



kiln, caldron	1	0	0	5	0	1	0	0	0	0	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	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
transmission	13	9	5	9	2	13	11	5	6	12	5	5	3	4	4	6	7	8	6	5	2	3
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
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
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
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
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
hand tool	2	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
ladder	25	18	24	18	19	21	15	15	13	10	13	19	12	14	18	13	9	7	13	11	9	6
slinging tool	13	10	11	8	6	10	5	12	8	9	6	6	4	3	3	3	7	6	4	5	2	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
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
scaffolding	75	51	54	48	53	48	39	29	36	35	26	45	26	25	32	35	27	16	31	23	23	17
timbering	5	2	7	3	0	4	0	2	1	1	2	2	3	7	1	1	2	0	2	0	0	0
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
opening	8	15	16	17	8	19	10	18	13	9	10	5	11	13	7	6	9	6	7	14	6	4
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
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
passage	4	5	5	3	2	2	1	2	4	0	2	4	1	2	1	2	2	2	2	5	4	1
building, establishment	65	71	52	53	50	40	43	40	41	46	30	25	24	35	22	32	19	34	25	19	15	21
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

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	0	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	
harmful substance	5	4	1	1	4	3	2	2	7	2	2	5	3	1	2	6	4	2	1	1	0	2	
radiation	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	
metal material	11	4	5	6	3	7	8	6	8	6	4	0	3	4	4	5	1	0	5	4	2	5	
lumber, bamboo	2	5	1	4	0	6	2	4	1	2	2	1	1	2	1	0	1	0	0	0	1	1	
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	
other materials	3	2	2	2	2	0	1	0	1	2	1	2	3	0	0	0	0	1	1	0	0	2	
load	9	3	7	4	4	4	4	1	1	5	1	3	0	1	5	1	2	3	2	3	7	1	
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	
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	
standing tree	7	15	7	12	3	7	9	9	8	3	7	7	6	9	10	11	15	9	6	9	10	5	
water	6	5	4	5	7	8	4	5	3	10	5	1	163	6	3	5	1	2	5	5	3	4	
abnormal environment	1	6	2	0	3	2	1	3	0	4	0	2	1	1	1	0	1	0	1	0	1	1	
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	
other environments	5	5	0	0	5	7	5	15	0	2	2	1	7	1	5	4	1	0	1	4	0	3	
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	
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	
unclassifiable	4	3	0	4	0	1	1	2	2	1	2	1	1	1	2	3	3	1	2	0	0	0	
total	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258	







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

Nara	9	6	6	2	5	5	3	1	6	4	4	5	3	5	4	8	4	2	2	3	3	3
Wakayama	10	9	6	6	5	7	3	6	8	5	5	2	5	4	3	1	1	7	3	2	5	3
Tottori	12	5	4	7	2	2	1	4	1	2	3	1	1	2	3	2	0	0	2	0	1	5
Shimane	12	4	7	2	8	0	2	8	6	2	6	3	4	2	4	4	0	4	0	3	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
Hiroshima	18	20	18	11	7	23	13	6	12	7	4	7	8	7	9	8	3	4	8	7	4	2
Yamaguchi	18	15	10	6	9	9	4	12	8	0	7	2	4	4	4	8	5	8	7	5	5	4
Tokushima	11	6	6	8	6	9	7	2	5	3	2	2	2	3	4	5	0	2	4	4	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
Ehime	10	13	9	11	12	10	7	11	6	5	3	6	3	4	3	2	5	3	6	9	10	3
Kochi	14	9	8	8	4	9	9	3	3	3	3	2	3	8	5	4	2	6	3	4	6	0
Fukuoka	32	26	19	25	23	19	21	18	16	24	16	13	12	17	12	12	13	10	8	12	4	9
Saga	6	6	5	3	1	4	6	6	1	3	0	6	0	2	3	1	3	6	4	3	0	4
Nagasaki	11	13	12	7	9	11	8	6	3	9	9	2	6	4	6	3	7	7	3	5	4	4
Kumamoto	16	16	9	3	15	11	7	8	5	6	6	8	4	7	5	4	4	9	13	7	3	7
Oita	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	10	10	9	9	4	7	5	1	1	3	3	1	3	3	5	5	3	1	5	5
Kagoshima	26	12	8	9	4	15	10	9	10	7	5	9	4	5	5	6	5	4	8	4	6	3
Okinawa	7	5	4	6	3	5	3	10	5	5	9	5	6	0	2	4	5	2	7	4	8	7
total	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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