

Fatal and non-fatal accidents in construction in Japan in 1999-2021

construction industry Code No.03

Type of 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	total	Type of accidents
fall from height	10,040	9,824	9,284	8,746	8,254	8,312	7,974	7,819	7,141	6,629	5,558	5,408	5,802	5,892	5,983	5,941	5,377	5,184	5,163	5,154	5,171	4,756	4,869	154,281	fall from height
falling to same level	2,618	2,471	2,297	2,187	2,098	2,003	2,011	1,996	1,865	1,781	1,461	1,457	1,592	1,658	1,621	1,795	1,546	1,512	1,573	1,616	1,589	1,672	1,666	42,085	falling to same level
crash	1,445	1,352	1,247	1,110	1,054	996	992	1,012	936	831	696	767	754	703	780	749	691	668	680	636	695	704	690	20,188	crash
struck by flying or falling object	3,548	3,464	3,260	2,925	2,678	2,646	2,502	2,412	2,238	2,150	1,785	1,672	1,763	1,801	1,802	1,655	1,545	1,457	1,478	1,432	1,431	1,370	1,363	48,377	struck by flying or falling object
collapse	1,030	998	918	944	817	767	742	758	732	660	537	508	556	538	557	569	482	475	497	489	482	452	447	14,955	collapse
crashed by	1,715	1,607	1,554	1,436	1,330	1,248	1,190	1,158	1,126	1,000	844	851	841	873	840	850	842	734	734	832	842	791	825	24,063	crashed by
caught in/between	3,720	3,552	3,394	3,164	2,816	2,687	2,541	2,414	2,271	2,119	1,906	1,752	1,811	1,873	1,889	1,892	1,731	1,585	1,663	1,731	1,693	1,669	1,676	51,549	caught in/between
cut	3,648	3,499	3,279	3,099	2,857	2,641	2,418	2,290	2,098	1,940	1,670	1,673	1,640	1,646	1,632	1,568	1,409	1,422	1,312	1,267	1,240	1,257	1,339	46,844	cut
injury to the sole of the foot	189	152	207	155	165	157	170	154	138	107	93	106	131	131	105	124	108	96	98	103	100	99	115	3,003	injury to the sole of the foot
drown	15	8	8	10	11	9	11	10	7	18	13	5	113	15	4	16	5	6	10	15	4	6	10	329	drown
contact to high/low-temperature	238	236	280	255	220	269	216	203	225	193	134	286	242	233	234	237	210	208	210	340	238	289	210	5,406	contact to high/low-temperature
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	74	2,022	contact to harmful substance
electric shock	86	91	68	72	47	71	66	51	66	67	44	50	35	41	45	59	43	35	27	47	37	36	43	1,227	electric shock
explosion	36	24	39	19	12	22	24	17	19	14	14	21	6	17	11	10	8	4	10	7	5	11	7	357	explosion

burst	22	15	17	18	12	24	12	10	10	8	11	5	9	9	6	7	6	8	7	8	6	8	5	243	burst
fire	26	27	30	30	37	19	15	40	29	26	21	23	15	14	10	20	17	16	11	36	25	10	5	502	fire
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	500	14,900	traffic accident (public road)
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	8	193	traffic accident (others)
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	981	22,599	reaction to motion/improper motion
others	115	124	112	81	111	124	114	136	105	98	78	69	150	96	86	78	87	68	95	77	72	270	1,236	3,582	others
unclassifiable	36	35	26	22	22	18	18	39	22	16	15	9	7	11	20	14	12	10	10	12	14	7	10	405	unclassifiable
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	457,110	total

Causal agents (large) of fatal and non-fatal accidents in construction in 1999-2021

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	total	Causal (L) agents
machine	5,761	5,474	5,071	4,792	4,430	4,120	3,891	3,674	3,429	3,258	2,853	2,781	2,810	2,777	2,732	2,722	2,425	2,397	2,293	2,273	2,289	2,250	2,346	76,848	machine
crane, conveying machine	3,758	3,640	3,405	3,391	3,160	2,927	2,985	2,847	2,631	2,519	2,161	2,114	2,221	2,274	2,413	2,380	2,223	2,173	2,192	2,229	2,205	2,147	2,133	60,128	crane, conveying machine
other equipment	5,265	4,983	4,828	4,575	4,279	4,222	4,100	4,026	3,816	3,633	3,056	3,019	3,137	3,189	3,159	3,262	2,872	2,805	2,809	2,815	2,768	2,717	2,901	82,236	other equipment
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	131,344	temporary buildings, establishments
substance, material	4,556	4,481	4,113	3,836	3,425	3,277	3,146	3,079	2,891	2,490	2,103	2,111	2,107	2,182	2,122	2,167	1,906	1,821	1,846	1,813	1,847	1,794	1,733	60,846	substance, material
load	738	756	789	706	636	624	578	551	583	531	490	441	427	436	488	429	402	364	391	394	450	446	410	12,060	load

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	21,838	environment
others	708	665	598	542	519	461	445	457	411	405	433	375	378	362	396	385	388	347	455	444	414	631	1,591	11,810	others
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	457,110	total

Causal agents (middle) of fatal and non-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	total	Causal (M) agents
engine	17	20	9	6	8	8	12	7	11	19	6	6	2	10	10	4	5	10	8	8	3	3	12	204	engine
power transmission mechanism	29	27	38	20	28	29	28	20	28	26	16	15	15	18	15	12	17	14	16	15	14	9	17	466	power transmission 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	569	26,459	woodworking machine
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	1,035	29,867	construction machine
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	330	9,546	metal manufacturing machine
general machine	686	665	607	594	542	543	471	485	468	395	399	397	414	366	365	368	375	351	332	322	358	366	371	10,240	general machine
mobile silviculture machine																	10	8	12	7	8	9	12	66	mobile silviculture machine
crane	868	903	806	805	756	680	709	648	607	628	515	455	485	473	531	487	472	436	450	475	471	450	440	13,550	crane
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	1,286	34,085	conveying machine
vehicle	781	659	613	639	633	585	619	600	505	496	445	459	467	533	510	587	512	518	486	477	480	482	407	12,493	vehicle
pressure vessel	34	31	28	31	36	38	25	22	19	27	14	23	17	19	14	16	11	21	15	17	9	14	14	495	pressure vessel

chemical facilities	10	3	2	4	5	11	4	8	9	7	4	3	5	4	1	8	5	1		7	3	2	1	107	chemical facilities
welding equipment	50	45	50	39	40	37	41	23	42	29	35	39	25	17	25	27	32	20	18	48	25	16	17	740	welding equipment
kiln, caldron	17	13	12	26	17	15	12	16	9	4	14	9	6	2	9	7	11	5	6	4	10	13	4	241	kiln, caldron
electric equipment	127	111	128	114	91	107	105	85	107	89	80	81	65	74	79	88	75	82	72	79	75	68	84	2,066	electric 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	562	17,452	human power machine, tools
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	56,192	tools
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	4,943	other equipments, facilities
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	131,344	temporary buildings, establishments
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	2,973	hazards, harmful substances
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	57,873	materials
load	738	756	789	706	636	624	578	551	583	531	490	441	427	436	488	429	402	364	391	394	450	446	410	12,060	load
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	21,838	natural environment
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	3,885	other causal agent
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	7,401	no causal agent
unclassifiable	43	48	39	35	25	31	26	33	29	32	25	25	12	15	17	20	15	8	13	10	12	3	8	524	unclassifiable
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	457,110	total

Causal agents (small) of fatal and non-fatal 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	total	Causal (S) agents
engine			9		8		12	7	11	19	6	6	2	10	10	4	5	10	8	8	3	3	12	153	engine
power transmission mechanism			38		28		28	20	28	26	16	15	15	18	15	12	17	14	16	15	14	9	17	361	power transmission mechanism
circular sawing machine			1,228		1,065		840	795	752	672	553	517	533	510	536	459	345	350	329	324	320	267	276	10,671	circular sawing machine
band sawing machine			23		25		19	15	11	18	13	8	8	8	9	7	7	7	4	3	1	4	3	193	band sawing machine
wood planer machine			340		270		188	167	139	169	110	103	79	90	75	61	58	70	53	59	37	55	35	2,158	wood planer machine
hollow chisel mortiser, wood borer			57		41		29	20	20	18	14	14	10	11	8	10	8	7	7	4	4	7	4	293	hollow chisel mortiser, wood borer
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	115	chamfering machine, router, woodworking milling machine
chain saw			107		118		96	106	100	78	118	107	104	109	93	125	113	114	122	107	125	148	151	2,141	chain saw
other woodworking machines			282		275		227	185	201	180	154	142	161	121	159	125	113	122	97	98	108	99	95	2,944	other woodworking machines
leveling, transporting or loading machine			220		224		173	191	153	143	124	157	126	134	138	127	142	126	136	142	118	106	138	2,818	leveling, transporting or loading machine
excavating machine			825		661		678	588	532	527	445	444	475	498	485	495	399	403	404	410	447	470	447	9,633	excavating machine
foundation work machine			98		70		74	79	63	55	46	44	50	62	52	54	65	53	51	56	47	58	41	1,118	foundation work machine
hardening machine			153		113		82	92	82	84	77	85	60	70	50	71	67	59	45	46	57	44	48	1,385	hardening machine

power machines			549		495		426	434	415	350	365	348	372	328	322	328	346	329	302	278	325	333	348	6,993	power machines
felling machine																	9	6	8	7	6	7	6	49	felling machine
mobile logging machine																	1	1	4		1	1	2	10	mobile logging machine
skyline yarding machine																		1				1		2	skyline yarding machine
other mobile silviculture machine																					1		4	5	other mobile silviculture machine
crane			151		148		130	137	140	110	95	74	99	88	93	86	77	68	87	76	93	91	86	1,929	crane
mobile crane			528		496		479	414	390	427	360	322	312	318	370	347	322	313	309	349	319	309	301	6,985	mobile crane
derrick crane							2		2			1	1	2		2								10	derrick crane
elevator, lift			44		31		25	30	19	25	22	10	22	23	12	18	23	16	12	15	16	19	17	399	elevator, lift
cargo lifting appliance			2		3		1		1				1		1	2			3		2			16	cargo lifting appliance
gondola			8		5		5	3	3	6	5	4	7	2	7	4		2	7	3	4	2	3	80	gondola
lumberyard equipment, logging cableway			1		1		2	3	4	6	2	3	2	3				1	1		1		2	32	lumberyard equipment, logging cableway
simple skyline yarding equipment																	1			1		1	2	5	simple skyline yarding equipment
other powered crane			72		72		67	59	50	52	31	41	41	37	48	28	49	36	31	31	36	28	29	838	other powered crane
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	23,188	truck
forklift			69		68		82	71	72	63	47	43	55	52	70	49	51	52	56	64	72	64	62	1,162	forklift
railway equipment			9		3		6	8	7	7	6	5	9	4	8	6	14	2	3	6	5	6	9	123	railway equipment
conveyor			45		48		40	36	25	32	18	16	30	24	15	16	14	25	22	29	17	25	20	497	conveyor
loader			14		13		12	12	7	9	5	3	3	3	8	7	4	5	3	4	9	5	6	132	loader
straddle carrier					1		1													1	1	1		5	straddle carrier

harmful substance		56	60	55	74	46	23	27	41	50	44	34	40	33	35	37	48	31	25	27	786	harmful substance
radiation		1					1														2	radiation
other hazards, harmful substances		56	38	38	29	41	37	29	19	29	27	28	31	30	41	34	34	50	51	43	685	other hazards, harmful substances
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	22,430	metal material
lumber, bamboo		887	709	647	611	581	500	453	418	381	429	425	399	360	363	343	323	358	329	314	8,830	lumber, bamboo
stone, sand, substance		475	401	342	309	274	231	201	195	197	202	191	227	139	169	151	164	173	152	155	4,348	stone, sand, substance
other materials		635	491	458	452	442	374	298	330	354	340	334	360	309	285	260	248	256	294	295	6,815	other materials
load		599	474	428	424	440	402	370	332	316	319	363	342	318	289	314	322	366	362	337	7,117	load
machine/equipment as load		190	162	150	127	143	129	120	109	111	117	125	87	84	75	77	72	84	84	73	2,119	machine/equipment as load
natural ground, rock		629	527	468	452	397	367	295	318	300	338	345	301	292	260	244	259	251	275	280	6,598	natural ground, rock
standing tree		230	197	218	185	201	209	229	200	201	188	195	187	211	175	188	209	174	179	168	3,744	standing tree
water		17	19	16	19	6	18	11	12	173	15	5	19	9	6	13	14	10	16	14	412	water
abnormal environment		10	13	13	6	9	13	2	11	15	11	9	3	10	10	9	4	6	4	5	163	abnormal environment
high/cold temperature environment		135	88	80	121	124	101	45	196	142	157	183	163	123	126	137	253	172	227	154	2,727	high/cold temperature environment
other environments		228	145	188	217	112	143	101	131	176	209	217	224	186	158	195	202	159	166	190	3,347	other environments
other causal agent		162	148	118	125	115	83	79	69	92	68	95	88	86	83	116	107	64	266	1,218	3,182	other causal agent
no causal agent		397	346	301	299	267	290	329	281	274	279	284	277	287	256	326	327	338	362	365	5,885	no causal agent
unclassifiable		39	25	26	33	29	32	25	25	12	15	17	20	15	8	13	10	12	3	8	367	unclassifiable
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	346,350	total

Workers age of fatal and non-fatal accidents in construction in 1999-2021

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	1,262	38,191	February
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	1,385	40,458	March
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	1,261	35,492	April
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	1,235	34,974	May
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	1,386	37,740	June
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	1,499	42,062	July
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	1,664	39,464	August
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	1,444	39,264	September
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	1,266	40,510	October
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	1,305	38,618	November
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	1,131	35,303	December
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	457,110	total

Prefecture of fatal and non-fatal accidents in construction in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	1,897	1,787	1,616		1,386		1,354	1,312	1,093	983	892	922	882	960	1,026	1,017	992	910	879	966	938	903	959	23,674	Hokkaido
Aomori	438	377	419		315		257	243	205	211	190	201	233	235	221	233	188	228	223	213	235	207	270	5,342	Aomori
Iwate	423	416	394		315		284	278	257	228	225	196	328	255	302	292	267	263	285	269	256	229	265	6,027	Iwate
Miyagi	468	497	408		447		351	339	359	334	284	271	539	527	465	402	372	432	350	336	352	283	342	8,158	Miyagi
Akita	439	354	393		327		290	333	242	238	228	209	224	236	229	248	203	190	199	217	209	200	227	5,435	Akita
Yamagata	451	436	384		318		322	292	238	223	179	232	222	261	239	232	214	195	196	256	175	194	246	5,505	Yamagata
Fukushima	562	529	486		460		408	387	358	373	325	295	402	482	464	531	475	421	373	367	340	385	412	8,835	Fukushima
Ibaraki	623	560	528		447		457	406	389	366	319	307	464	438	358	375	350	364	380	330	296	295	387	8,439	Ibaraki
Tochigi	412	403	368		309		302	286	280	303	246	244	264	271	245	214	240	242	211	193	209	200	227	5,669	Tochigi
Gunma	622	582	527		424		362	352	334	324	271	263	249	265	279	292	246	209	238	270	237	242	262	6,850	Gunma
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	16,975	Saitama
Chiba	953	995	997		904		823	840	794	764	690	676	667	663	714	714	604	558	591	566	608	672	617	15,410	Chiba

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	16,826	Fukuoka
Saga	238	250	233		196		203	190	165	162	151	145	157	160	208	172	179	153	165	161	152	195	155	3,790	Saga
Nagasaki	456	406	369		316		248	302	249	194	196	185	193	209	175	215	200	197	201	207	205	224	236	5,183	Nagasaki
Kumamoto	534	473	397		383		346	339	334	274	286	274	251	273	321	266	286	339	401	335	295	315	288	7,010	Kumamoto
Oita	564	480	453		401		355	335	309	270	238	214	227	217	255	255	210	228	207	225	222	219	201	6,085	Oita
Miyazaki	357	341	311		257		263	288	246	246	179	215	190	205	188	204	148	189	189	180	198	245	190	4,829	Miyazaki
Kagoshima	466	468	376		374		372	349	307	285	240	242	263	267	309	267	290	314	312	294	312	305	299	6,711	Kagoshima
Okinawa	140	167	130		129		167	138	150	169	165	153	164	169	156	189	172	152	212	192	212	178	206	3,510	Okinawa
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	407,002	total

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. 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.htm> (MHLW, Japan)

Return to https://www.jisha.or.jp/english/statistics/2021e_industry.html

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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	total	Type of accidents
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	4,209	fall from height
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	234	falling to same level
crash	5	2	5	3	3	5	2		2	1	3	1	1	2	3	2		1		1	1	2	1	46	crash
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	567	struck by flying or falling object
collapse	77	65	64	72	59	54	39	50	39	45	41	27	28	37	36	30	20	27	28	23	34	27	31	953	collapse

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	700	crashed by
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	963	caught in/between
cut	3	5	2	2	1	1	5	2	3	2	1	3	2	3	3	3	2			3	1	3	2	52	cut
injury to the sole of the foot	1		1	1	1	1	1	1	2			2	1			1		1						14	injury to the sole of the foot
drown	9	6	6	10	9	10	8	7	5	16	10	5	111	13	4	15	4	5	8	13	4	5	10	293	drown
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	252	contact to high/low-temperature
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	124	contact to harmful substance
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	217	electric shock
explosion	2			2		5	3		2	2		2		2	1	2	1			1	1	2		28	explosion
burst	2	1	1			6	1			2	1	1	1					1				1		18	burst
fire	3	6	6	1	7		1	13	7	4	8	4		1	3	5	6	1	1	2	2	1	1	83	fire
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	1,178	traffic accident (public road)
traffic accident (others)	5		1	7	2	1	4	2	2	1	5	1	1	2	2	1			1		1	1	1	41	traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others	5	3	3	4	9	10	12	16	4	4	3	1	63	9	6	11	9	6	5	3	7	8	15	216	others
unclassifiable	3			2		1		2	1	1	2	1	1		1	1	3		2	1	1		3	26	unclassifiable
total	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258	288	10,214	total

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

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	total	Causal (L) agents
machine	136	127	94	88	87	77	77	80	62	73	63	55	47	56	47	58	36	44	45	44	36	42	43	1,517	machine
crane, conveying machine	185	190	166	140	119	135	128	112	101	72	83	78	83	78	61	86	73	65	83	63	58	61	55	2,275	crane, conveying machine
other equipment	76	54	60	52	41	61	53	47	37	50	40	43	30	28	30	38	34	29	27	28	20	21	34	933	other equipment
temporary buildings, establishments	264	239	224	220	208	215	156	164	173	159	124	130	127	137	124	124	111	107	113	116	91	77	85	3,488	temporary buildings, establishments
substance, material	26	21	10	17	16	21	16	20	24	15	12	9	10	12	10	11	11	4	8	7	6	12	10	308	substance, material
load	10	6	8	4	4	5	7	4	5	5	1	4	2	4	7	1	4	4	3	5	8	4	1	106	load
environment	91	90	78	81	69	75	54	70	53	53	42	43	204	43	56	46	44	34	36	42	42	34	45	1,425	environment

others	6	4	4	5	4	5	6	11	6	3	6	3	7	9	7	13	14	7	8	4	8	7	15	162	others
total	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258	288	10,214	total

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	total	Causal (M) agents
engine	1				1		1	2		3			1					1			1			11	engine
power transmission mechanism				1	1				1	1										1				5	power transmission mechanism
woodworking machine	1	2	2	2	1	1	3	1	3	4	1	1	1	1	3	3	1			1	2	1	1	36	woodworking machine
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	1,354	construction machine
metal manufacturing machine	2	1		2	2			1				2	1	1		1		2					1	16	metal manufacturing machine
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	89	general machine
mobile silviculture machine																	1	1	3		1			6	mobile silviculture machine
crane	27	41	38	23	27	24	28	21	26	11	17	16	18	21	15	23	20	13	13	18	16	12	12	480	crane
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	1,085	conveying machine
vehicle	65	59	48	46	39	40	42	38	21	23	25	23	35	20	21	30	21	18	26	17	15	24	14	710	vehicle
pressure vessel		2		3		6	1						3	1			1	1						18	pressure vessel
chemical facilities				1		1			1	2						2								7	chemical facilities
welding equipment	1		2	1	1	2	1	1	1	2	3	5	2			2	4		1	3	1	1		34	welding equipment
kiln, caldron	1			5		1									1									8	kiln, caldron
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	211	electric equipment
human power machine, tools	3	3	1	1	3	1	1	2	2	2	2		2	1	1		1		1	2	1	2	1	33	human power machine, tools
tools	39	32	40	28	31	32	27	31	22	22	21	26	19	18	23	18	18	14	17	17	14	9	25	543	tools
other equipments, facilities	7	5	3	3	3	4	7	4	1	5	6	2	3	3	1	6	2	3	1	1	2	6	1	79	other equipments, facilities
temporary buildings, establishments	264	239	224	220	208	215	156	164	173	159	124	130	127	137	124	124	111	107	113	116	91	77	85	3,488	temporary buildings, establishments
hazards, harmful substances	9	9	2	3	10	7	4	10	14	5	5	6	3	5	5	6	9	3	1	2	3	4	4	129	hazards, harmful substances
materials	17	12	8	14	6	14	12	10	10	10	7	3	7	7	5	5	2	1	7	5	3	8	6	179	materials
load	10	6	8	4	4	5	7	4	5	5	1	4	2	4	7	1	4	4	3	5	8	4	1	106	load

natural environment	91	90	78	81	69	75	54	70	53	53	42	43	204	43	56	46	44	34	36	42	42	34	45	1,425	natural environment
other causal agent	1	1	4	1	4	3	4	4			1	1				3	2	1				4	10	44	other causal agent
no causal agent	1					1	1	5	4	2	3	1	6	8	5	7	9	5	6	4	8	3	3	82	no causal agent
unclassifiable	4	3		4		1	1	2	2	1	2	1	1	1	2	3	3	1	2				2	36	unclassifiable
total	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258	288	10,214	total

Causal agents (small) of fatal 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	total	Causal (S) agents	
engine	1				1		1	2		3			1					1			1			11	engine	
power transmission mechanism				1	1					1	1										1			5	power transmission mechanism	
circular sawing machine	1	2	2	2	1	1	3	1	2	2	1	1		1	3	3	1				1	1		1	30	circular sawing machine
band sawing machine																										band sawing machine
wood planer machine																										wood planer machine
hollow chisel mortiser, wood borer																										hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																										chamfering machine, router, woodworking milling machine
chain saw										1			1									1	1		4	chain saw
other woodworking machines										1	1														2	other woodworking machines
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	190	leveling, transporting or loading machine	
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	645	excavating machine	
foundation work machine	5	3	6	4	3	2	7		1	3	2		2	1		2	1		2	4		3	1	52	foundation work machine	
hardening machine	15	8	8	12	8	7	9	8		7	3	7	2	1	1	4	1	4	2	2	2	4	4	119	hardening machine	

chemical facilities				1		1			1	2					2								7	chemical facilities	
gas welding equipment			1							1	2	2				3			3		1		13	gas welding equipment	
arc welding equipment	1		1	1	1	2	1	1	1	1	1	3	2			2	1		1		1		21	arc welding equipment	
other welding equipment																									other welding equipment
kiln, caldron	1			5		1									1								8	kiln, caldron	
industrial dryer																									industrial dryer
other kiln, caldron																									other kiln, caldron
transmission	13	9	5	9	2	13	11	5	6	12	5	5	3	4	4	6	7	8	6	5	2	3	5	148	transmission
electric power facilities	9	2	6	1	1	1	4	3	4	2	3	2		2		3		2	1				1	47	electric power facilities
other electrical equipment	3	1	3				1	1		3						1	1	1					1	16	other electrical equipment
human power cranes	1	1		1	1			2	1	1	1		1	1	1		1		1	1	1	1	1	18	human power cranes
human power hauling equipment		2			1		1			1	1		1							1				8	human power hauling equipment
human power machine			1																					1	human power machine
hand tool	2				1	1			1														1	6	hand tool
ladder	25	18	24	18	19	21	15	15	13	10	13	19	12	14	18	13	9	7	13	11	9	6	19	341	ladder
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	147	slinging tool
other tools	1	4	5	2	6	1	7	4	1	3	2	1	3	1	2	2	2	1		1	3		3	55	other tools
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	79	other equipment, facilities
scaffolding	75	51	54	48	53	48	39	29	36	35	26	45	26	25	32	35	27	16	31	23	23	17	14	808	scaffolding
timbering	5	2	7	3		4		2	1	1	2	2	3	7	1	1	2		2				1	46	timbering
stairs, landing stage	5	4	2	3	4	5	2	2	7	2	4		3	2	3	3	1	1	1	3	3	2	3	65	stairs, landing stage
opening	8	15	16	17	8	19	10	18	13	9	10	5	11	13	7	6	9	6	7	14	6	4	11	242	opening
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	1,077	roof, beam, haze, crossbeam, principal rafter
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	172	working platform, boot board

passage	4	5	5	3	2	2	1	2	4		2	4	1	2	1	2	2	2	2	5	4	1	4	60	passage	
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	827	building, establishment	
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	191	other temporary buildings, establishments	
explosive substance	1																							1	explosive substance	
inflammable substance		5			6			8	6	1	2			1	1		2	1				1	1	35	inflammable substance	
inflammable gas	1			2		3	2		1	2		1		3	2		2			1	2	1		23	inflammable gas	
harmful substance	5	4	1	1	4	3	2	2	7	2	2	5	3	1	2	6	4	2	1	1		2	2	62	harmful substance	
radiation																									radiation	
other hazards, harmful substances	2		1			1						1						1				1		1	8	other hazards, harmful substances
metal material	11	4	5	6	3	7	8	6	8	6	4		3	4	4	5	1		5	4	2	5	3	104	metal material	
lumber, bamboo	2	5	1	4		6	2	4	1	2	2	1	1	2	1		1				1	1		37	lumber, bamboo	
stone, sand, substance	1	1		2	1	1	1							1					1	1			1	11	stone, sand, substance	
other materials	3	2	2	2	2		1		1	2	1	2	3					1	1			2	2	27	other materials	
load	9	3	7	4	4	4	4	1	1	5	1	3		1	5	1	2	3	2	3	7	1		71	load	
machine/equipment as load	1	3	1			1	3	3	4				1	2	3	2		2	1	1	2	1	3	1	35	machine/equipment as load
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	609	natural ground, rock	
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	186	standing tree	
water	6	5	4	5	7	8	4	5	3	10	5	1	163	6	3	5	1	2	5	5	3	4	5	265	water	
abnormal environment	1	6	2		3	2	1	3		4		2	1	1	1		1		1		1	1	6	37	abnormal environment	
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	250	high/cold temperature environment	
other environments	5	5			5	7	5	15		2	2	1	7	1	5	4	1		1	4		3	5	78	other environments	
other causal agent	1	1	4	1	4	3	4	4			1	1				3	2	1				4	10	44	other causal agent	
no causal agent	1					1	1	5	4	2	3	1	6	8	5	7	9	5	6	4	8	3	3	82	no causal agent	
unclassifiable	4	3		4		1	1	2	2	1	2	1	1	1	2	3	3	1	2				2	36	unclassifiable	

total	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258	288	10,214	total
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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	total	Age
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	175	19 years old or less
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	1,199	20-29
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	1,309	30-39
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	1,638	40-49
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	2,759	50-59
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	3,134	60 years old or more
total	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258	288	10,214	total

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	total	Workers scale
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	5,396	9 workers or less
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	3,233	10-29
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	911	30-49
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	420	50-99
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	220	100-299
300 workers or more	3	4	2	4		5	2	3	2	1	1				2	1			1		1	1	1	34	300 workers or more
total	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258	288	10,214	total

Month of fatal accidents in construction in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	69	61	40	47	43	41	36	34	34	36	27	38	27	28	29	24	30	23	22	26	15	23	23	776	January

February	65	64	42	53	46	49	42	52	45	30	41	33	27	44	18	39	22	27	31	24	35	25	24	878	February
March	75	68	70	52	55	57	52	42	35	33	32	27	190	29	21	41	32	25	26	23	22	28	23	1,058	March
April	67	50	55	56	42	26	44	39	26	25	16	21	22	25	18	22	24	25	24	12	16	21	18	694	April
May	51	41	50	29	48	27	27	24	35	33	16	24	30	26	28	32	25	16	24	20	19	16	15	656	May
June	62	58	44	29	28	37	35	35	40	25	31	25	24	32	26	27	23	16	19	31	14	18	26	705	June
July	59	76	68	65	61	67	37	54	43	49	31	37	27	38	32	43	26	22	41	36	28	20	32	992	July
August	70	77	60	55	61	58	45	51	37	43	38	40	27	31	36	38	40	26	29	20	21	23	25	951	August
September	69	47	48	38	38	74	29	44	52	44	30	29	28	25	29	26	34	36	29	38	19	27	30	863	September
October	56	59	62	56	46	70	40	39	45	38	37	29	31	30	30	32	35	28	25	36	27	18	28	897	October
November	68	67	37	50	48	47	63	49	30	43	36	29	39	33	40	26	21	25	32	23	31	17	21	875	November
December	83	63	68	77	32	41	47	45	39	31	36	33	38	26	35	27	15	25	21	20	22	22	23	869	December
total	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258	288	10,214	total

Prefecture of fatal accidents in construction in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	59	54	39	40	30	39	30	29	26	28	30	22	10	27	22	22	25	30	23	17	20	14	20	656	Hokkaido
Aomori	7	10	12	6	9	5	7	6	5	7	4	5	6	7	2	7	3	2	2	3	4	2	4	125	Aomori
Iwate	9	9	11	12	12	10	7	2	4	7	6	1	64	6	4	10	8	7	8	9	6	5	10	227	Iwate
Miyagi	18	24	10	7	11	4	8	8	4	9	7	6	101	9	9	7	5	5	5	7	7	3	5	279	Miyagi
Akita	13	6	5	4	5	5	5	10	7	6	5	6	3	2	13	5	11	5	6	7	1	2	4	136	Akita
Yamagata	12	6	9	7	1	5	3	6	1	3	2	5	2	8	6	8	2	3	2	4	4	4	3	106	Yamagata
Fukushima	20	11	13	16	12	11	15	7	8	12	8	6	35	11	17	11	14	10	8	7	7	13	7	279	Fukushima
Ibaraki	14	11	18	27	12	17	12	9	19	9	8	7	16	11	12	10	12	11	8	10	8	4	7	272	Ibaraki
Tochigi	14	12	12	9	7	12	7	8	4	6	4	9	8	5	2	6	5	4	3	1	3	3	6	150	Tochigi
Gunma	14	5	13	10	8	9	9	5	8	7	6	6	3	5	4	12	3	3	3	6		2	6	147	Gunma
Saitama	19	24	24	23	20	25	21	16	11	18	16	12	9	13	12	16	15	6	13	12	10	8	11	354	Saitama
Chiba	24	23	27	31	27	28	15	27	20	17	17	17	11	14	17	24	15	12	10	10	12	12	5	415	Chiba

Fukuoka	32	26	19	25	23	19	21	18	16	24	16	13	12	17	12	12	13	10	8	12	4	9	12	373	Fukuoka
Saga	6	6	5	3	1	4	6	6	1	3		6		2	3	1	3	6	4	3		4	3	76	Saga
Nagasaki	11	13	12	7	9	11	8	6	3	9	9	2	6	4	6	3	7	7	3	5	4	4	7	156	Nagasaki
Kumamoto	16	16	9	3	15	11	7	8	5	6	6	8	4	7	5	4	4	9	13	7	3	7	3	176	Kumamoto
Oita	16	11	10	7	6	6	12	3	6	8	5	2	4	10	2	5	5	5	9	3	3	3	4	145	Oita
Miyazaki	12	10	10	10	9	9	4	7	5	1	1	3	3	1	3	3	5	5	3	1	5	5	4	119	Miyazaki
Kagoshima	26	12	8	9	4	15	10	9	10	7	5	9	4	5	5	6	5	4	8	4	6	3	1	175	Kagoshima
Okinawa	7	5	4	6	3	5	3	10	5	5	9	5	6		2	4	5	2	7	4	8	7	6	118	Okinawa
total	794	731	644	607	548	594	497	508	461	430	371	365	510	367	342	377	327	294	323	309	269	258	288	10,214	total

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

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