

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

other construction works industry Code No.0303

Type of accidents in other construction works 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	1,163	1,177	1,080	1,066	1,027	1,042	1,059	1,087	1,043	1,044	873	868	930	869	966	928	911	892	923	952	937	892	921	22,650	fall from height
falling to same level	280	248	284	259	278	282	302	282	309	270	236	217	257	284	260	295	274	299	301	306	329	323	342	6,517	falling to same level
crash	172	169	149	132	152	131	151	160	130	150	104	122	128	113	121	127	103	133	126	110	144	136	149	3,112	crash
struck by flying or falling object	376	373	383	323	320	345	316	314	349	326	250	254	260	258	256	260	267	257	259	270	256	253	286	6,811	struck by flying or falling object
collapse	90	96	80	99	91	107	76	90	85	74	85	68	80	70	72	92	63	51	93	89	82	69	76	1,878	collapse
crashed by	158	150	162	141	153	143	139	140	128	144	113	111	133	116	148	130	129	125	130	142	156	152	129	3,172	crashed by
caught in/between	475	450	441	412	389	384	362	362	359	360	324	310	311	340	319	359	332	293	338	345	367	321	354	8,307	caught in/between
cut	256	247	231	226	207	196	193	213	202	200	170	150	182	182	159	212	181	211	158	175	197	160	236	4,544	cut
injury to the sole of the foot	16	14	21	17	13	15	27	16	14	15	11	14	20	19	15	18	22	13	23	16	22	19	23	403	injury to the sole of the foot
drown	3	1		1	1		4		3	2	1		31	3		1	1	1	1	5	1	1	1	62	drown
contact to high/low-temperature	55	47	78	60	51	60	46	48	58	46	43	62	45	47	43	58	46	50	47	87	54	60	46	1,237	contact to high/low-temperature
contact to harmful	29	36	19	19	50	28	21	21	27	16	18	18	23	21	18	22	23	26	19	24	31	26	18	553	contact to harmful

substance																										substance
electric shock	63	55	44	37	26	43	44	31	43	44	27	27	17	15	30	36	26	21	16	27	17	21	27	737	electric shock	
explosion	14	8	9	9	6	11	15	5	6	4	6	7	3	3	6	5	2	4	4	2	2	5	2	138	explosion	
burst	6	4	2	2	6	14	3	1	1	4	5	1	3	2	2	1	3	2		2		2		66	burst	
fire	5	5	1	3	10	7	4	13	13	13	4	13	8	6	2	9	6	6	3	11	2	4		148	fire	
traffic accident (public road)	151	132	141	122	145	133	162	152	134	125	98	107	107	144	141	168	155	165	155	161	150	110	129	3,187	traffic accident (public road)	
traffic accident (others)	6	2	2	1			6	3		2	1				1	3	2		4	2	4	2		41	traffic accident (others)	
reaction to motion/improper motion	194	185	224	168	157	166	157	164	158	160	148	155	164	153	166	156	153	164	179	185	187	210	236	3,989	reaction to motion/improper motion	
others	13	13	13	13	13	16	21	22	17	14	14	13	21	13	18	14	18	13	25	19	17	53	420	813	others	
unclassifiable	6	6	4	6	3		5	4	5	5	1	3	1	2	3	4	2	3	4	1	3	1	4	76	unclassifiable	
total	3,531	3,418	3,368	3,116	3,098	3,123	3,113	3,128	3,084	3,018	2,532	2,520	2,724	2,660	2,746	2,898	2,719	2,729	2,808	2,931	2,958	2,820	3,399	68,441	total	

Causal agents (large) of fatal and non-fatal accidents in other construction works 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	413	394	403	360	345	339	339	366	327	342	321	280	337	322	289	324	306	335	297	332	367	311	393	7,842	machine
crane, conveying machine	575	557	522	491	517	519	533	519	490	484	414	387	406	441	466	480	501	473	479	514	500	438	476	11,182	crane, conveying machine
other equipment	929	890	851	823	777	804	769	775	781	806	647	650	675	634	699	749	607	664	662	688	707	637	713	16,937	other

																										equipment
temporary buildings, establishments	738	787	758	727	738	741	789	783	769	751	589	602	667	662	657	700	671	668	700	690	690	710	719	16,306	temporary buildings, establishments	
substance, material	472	407	460	418	417	399	369	393	389	337	286	322	319	315	300	326	322	292	319	334	328	322	327	8,173	substance, material	
load	181	184	167	136	141	145	140	136	143	127	132	117	113	103	123	103	90	109	117	111	121	136	116	2,991	load	
environment	94	92	98	84	85	100	98	88	111	96	69	93	142	107	121	129	137	116	133	161	150	134	140	2,578	environment	
others	129	107	109	77	78	76	76	68	74	75	74	69	65	76	91	87	85	72	101	101	95	132	515	2,432	others	
total	3,531	3,418	3,368	3,116	3,098	3,123	3,113	3,128	3,084	3,018	2,532	2,520	2,724	2,660	2,746	2,898	2,719	2,729	2,808	2,931	2,958	2,820	3,399	68,441	total	

Causal agents (middle) of fatal and non-fatal accidents in other construction works 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	4	9	5	1	1	3	3	3	5	3		1		4	1		2	4	3	2	1		4	59	engine
power transmission mechanism	10	9	11	8	2	12	13	11	12	9	8	6	7	8	4	7	4	5	11	6	8	2	8	181	power transmission mechanism
woodworking machine	61	66	73	59	62	51	58	62	63	55	51	48	51	50	54	62	60	73	48	61	66	44	73	1,351	woodworking machine
construction machine	128	129	151	127	137	111	135	147	108	117	138	111	124	130	119	129	126	119	121	123	160	146	168	3,004	construction machine
metal manufacturing machine	105	91	90	87	72	83	65	76	75	82	69	58	67	62	54	61	56	77	57	76	62	58	75	1,658	metal manufacturing machine

general machine	105	90	73	78	71	79	65	67	64	76	55	56	88	68	57	65	58	55	56	63	68	60	64	1,581	general machine
mobile silviculture machine																		2	1	1	2	1	1	8	mobile silviculture machine
crane	138	157	143	106	124	149	122	114	115	131	101	96	89	101	104	102	97	93	92	115	114	86	104	2,593	crane
conveying machine	307	300	278	276	275	240	275	279	263	229	207	193	228	206	226	227	259	244	260	272	248	246	263	5,801	conveying machine
vehicle	130	100	101	109	118	130	136	126	112	124	106	98	89	134	136	151	145	136	127	127	138	106	109	2,788	vehicle
pressure vessel	10	10	13	13	13	21	12	9	12	13	5	15	8	6	4	9	6	7	9	6	4	5	6	216	pressure vessel
chemical facilities	5	2	1	3	4	6	3	5	3	4	3	2	5	2	1	7	3	1		3	2	1	1	67	chemical facilities
welding equipment	11	13	14	8	10	7	14	12	8	11	16	16	9	4	12	8	12	6	4	16	9	3	5	228	welding equipment
kiln, caldron	11	7	4	8	10	10	4	6	6	2	8	6	1	1	4	3	8	5	2	3	7	5	2	123	kiln, caldron
electric equipment	93	78	77	71	51	67	67	53	68	57	53	46	38	39	51	58	47	47	41	48	45	41	53	1,289	electric equipment
human power machine, tools	159	139	121	141	127	127	115	125	135	126	91	86	98	108	91	123	105	86	97	94	114	116	116	2,640	human power machine, tools
tools	576	553	543	508	488	499	483	494	473	512	406	417	445	414	461	445	365	443	457	447	474	405	485	10,793	tools
other equipments, facilities	64	88	78	71	74	67	71	71	76	81	65	62	71	60	75	96	61	69	52	71	52	61	45	1,581	other equipments, facilities
temporary buildings, establishments	738	787	758	727	738	741	789	783	769	751	589	602	667	662	657	700	671	668	700	690	690	710	719	16,306	temporary buildings, establishments

hazards, harmful substances	53	42	40	43	67	44	39	43	48	31	26	34	32	36	24	31	30	36	29	34	33	36	22	853	hazards, harmful substances
materials	419	365	420	375	350	355	330	350	341	306	260	288	287	279	276	295	292	256	290	300	295	286	305	7,320	materials
load	181	184	167	136	141	145	140	136	143	127	132	117	113	103	123	103	90	109	117	111	121	136	116	2,991	load
natural environment	94	92	98	84	85	100	98	88	111	96	69	93	142	107	121	129	137	116	133	161	150	134	140	2,578	natural environment
other causal agent	50	50	35	17	21	22	20	19	24	20	16	19	14	14	33	28	17	20	22	31	14	58	425	989	other causal agent
no causal agent	71	49	70	54	56	52	51	43	45	48	55	46	50	60	56	55	65	49	73	69	78	73	88	1,356	no causal agent
unclassifiable	8	8	4	6	1	2	5	6	5	7	3	4	1	2	2	4	3	3	6	1	3	1	2	87	unclassifiable
total	3,531	3,418	3,368	3,116	3,098	3,123	3,113	3,128	3,084	3,018	2,532	2,520	2,724	2,660	2,746	2,898	2,719	2,729	2,808	2,931	2,958	2,820	3,399	68,441	total

Causal agents (small) of fatal and non-fatal accidents in other construction works 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			5		1		3	3	5	3		1		4	1		2	4	3	2	1		4	42	engine
power transmission mechanism			11		2		13	11	12	9	8	6	7	8	4	7	4	5	11	6	8	2	8	142	power transmission mechanism
circular sawing machine			45		32		29	34	24	34	29	22	33	28	35	24	28	26	22	28	28	16	33	550	circular sawing machine
band sawing machine					2			2	2		1						1	3	1					12	band sawing machine
wood planer machine			3		4		4	1	3	3		2	1	1		2		3		2	4			33	wood planer machine

buffing machine			27		30		31	30	42	38	33	25	36	27	32	31	27	44	29	39	31	28	39	619	buffing machine
power press			1		4		2		2	4	4	2	2	2	2	2	2	2	2	2	1	5	1	42	power press
forging pressure hammer			1																					1	forging pressure hammer
shearing machine			3		1		2		1	1	3	1		1			5	3		3	2		1	27	shearing machine
other metal manufacturing machines			46		33		23	35	21	26	23	27	23	24	15	26	17	22	20	27	25	21	27	481	other metal manufacturing machines
centrifugal machine			1		1		1		2						1		1							7	centrifugal machine
mixer, grinder			5		3		7	6	4	6	3	4	2	10	2	8	1	2	4	8	2	6	3	86	mixer, grinder
roll machine (except printingroll machine)					1		2	1	3	1		4	5	1					1		3			22	roll machine (except printingroll machine)
injection molding machine							1				1													2	injection molding machine
food manufacturing machine			1				1		1		2				1		1	2		1				10	food manufacturing machine
printing machine					2		1		1	1			1	1								2		9	printing machine
industrial robot					1			1		1	1				1	1				1	1	1		9	industrial robot
other general power machines			66		63		54	57	55	65	48	48	80	56	52	56	55	51	51	53	62	51	61	1,084	other general power machines
felling machine																		1	1	1	2	1		6	felling machine
mobile logging machine																							1	1	mobile logging machine
skyline yarding																		1						1	skyline yarding

machine																									machine
other mobile silviculture machine																									other mobile silviculture machine
crane			32		24		26	37	27	33	28	15	22	26	26	22	20	15	23	27	32	9	28	472	crane
mobile crane			77		70		69	54	69	70	56	60	49	57	61	58	56	58	59	73	58	54	62	1,170	mobile crane
derrick crane										1			1	2		1								5	derrick crane
elevator, lift			16		8		10	5	5	10	6	4	7	9		7	7	5	1	7	6	9	6	128	elevator, lift
cargo lifting appliance																1								1	cargo lifting appliance
gondola			2				1	1		3		2	2		1	1		1	1		3	2	1	21	gondola
lumberyard equipment, logging cableway			1						2	1					1			1	1		1			8	lumberyard equipment, logging cableway
simple skyline yarding equipment																						1	1	2	simple skyline yarding equipment
other powered crane			15		22		16	17	12	13	11	15	8	6	16	12	14	13	7	8	14	11	6	236	other powered crane
truck			230		219		217	225	207	180	174	161	180	168	173	193	214	201	218	219	202	207	229	3,817	truck
forklift			15		27		29	22	24	25	20	13	17	19	24	17	19	24	19	22	22	19	18	395	forklift
railway equipment					1		1	2		1		2	2		1	2	2		1	1				16	railway equipment
conveyor			11		13		19	14	12	12	5	5	15	9	7	5	9	10	9	13	8	13	10	199	conveyor
loader					2			1		1		1	1		1		1	2	1	1	2			14	loader
straddle carrier					1																			1	straddle carrier
rough terrain hauler			2		1		1	3	1	1	1	1		1	1	3	4		2	3	4	1	2	32	rough terrain hauler
other powered			20		11		8	12	19	9	7	10	13	9	19	7	10	7	10	13	10	6	4	204	other powered

conveying machines																								conveying machines	
cars, bus, motorcycle			96		112		126	119	107	119	101	89	86	131	131	146	139	129	122	126	133	101	106	2,219	cars, bus, motorcycle
railway vehicle			2		2		4	1			1	1	1		1	2	1	3			1			20	railway vehicle
other vehicles			3		4		6	6	5	5	4	8	2	3	4	3	5	4	5	1	4	5	3	80	other vehicles
boiler			5		1		3	3	4	1		8	1	2	2	4	1	4	2	2	3	1	2	49	boiler
pressure vessel			3		5		4	3	2	4	3	1	2		1		1	1	3	1		1	1	36	pressure vessel
other pressure vessels			5		7		5	3	6	8	2	6	5	4	1	5	4	2	4	3	1	3	3	77	other pressure vessels
chemical facilities			1		4		3	5	3	4	3	2	5	2	1	7	3	1		3	2	1	1	51	chemical facilities
gas welding equipment			10		5		6	7	4	3	7	9	3	2	5	5	9	2	2	13	6	1	2	101	gas welding equipment
arc welding equipment			4		4		7	2	3	5	8	6	6		5	2	2	3	1	1	2	2	1	64	arc welding equipment
other welding equipment					1		1	3	1	3	1	1		2	2	1	1	1	1	2	1		2	24	other welding equipment
kiln, caldron			4		7		3	4	5	1	7	5	1	1	3	3	8	3	2	2	6	5	1	71	kiln, caldron
industrial dryer					1		1	1	1		1	1			1			1					1	9	industrial dryer
other kiln, caldron					2			1		1								1		1	1			7	other kiln, caldron
transmission			33		26		34	24	40	30	26	24	17	17	25	24	27	23	26	27	24	16	28	491	transmission
electric power facilities			27		11		19	14	24	17	18	14	10	14	18	29	9	13	9	15	9	15	17	302	electric power facilities
other electrical equipment			17		14		14	15	4	10	9	8	11	8	8	5	11	11	6	6	12	10	8	187	other electrical equipment
human power			11		10		14	8	17	11	6	8	9	6	9	15	5	8	4	8	9	11	9	178	human power

cranes																										cranes
human power hauling equipment			15		14		11	15	15	16	14	11	15	20	12	16	13	19	20	21	17	22	9	295	human power hauling equipment	
human power machine			1		2		1	3	5	5	4	2	2	4	1	7	5	2	1	2	2	4	3	56	human power machine	
hand tool			94		101		89	99	98	94	67	65	72	78	69	85	82	57	72	63	86	79	95	1,545	hand tool	
ladder			448		405		405	410	394	420	339	353	386	353	398	378	310	357	377	378	393	341	388	7,233	ladder	
slinging tool			37		24		26	20	30	29	19	26	15	16	26	20	8	31	27	15	15	24	19	427	slinging tool	
other tools			58		59		52	64	49	63	48	38	44	45	37	47	47	55	53	54	66	40	78	997	other tools	
other equipment, facilities			78		74		71	71	76	81	65	62	71	60	75	96	61	69	52	71	52	61	45	1,291	other equipment, facilities	
scaffolding			138		118		139	138	122	139	82	78	88	94	102	101	94	100	86	86	78	92	89	1,964	scaffolding	
timbering			1		4		4	2	2	1	1	2	1		1	1	2	1	2	3	1	2	2	33	timbering	
stairs, landing stage			83		77		95	101	82	80	70	82	66	71	69	90	95	82	95	90	80	119	98	1,625	stairs, landing stage	
opening			32		34		25	33	33	25	25	18	24	18	26	29	31	29	19	40	33	27	36	537	opening	
roof, beam, haze, crossbeam, principal rafter			87		96		105	98	105	93	81	95	117	124	121	122	103	98	84	99	86	83	73	1,870	roof, beam, haze, crossbeam, principal rafter	
working platform, boot board			75		77		61	66	78	80	58	64	51	59	57	62	54	60	74	63	60	50	46	1,195	working platform, boot board	
passage			103		103		129	116	121	108	95	82	112	101	100	107	111	122	136	130	152	149	179	2,256	passage	
building, establishment			151		139		146	158	144	151	126	122	131	127	119	121	109	114	131	116	121	111	124	2,461	building, establishment	
other temporary buildings, establishments			88		90		85	71	82	74	51	59	77	68	62	67	72	62	73	63	79	77	72	1,372	other temporary buildings, establishments	

explosive substance			2	1	6	2	2	2	1	2	1							1	2	20	explosive substance		
inflammable substance			5	10	4	14	17	9	2	13	4	5	2	4	2	6	6	6	6	10	2	127	inflammable substance
inflammable gas			9	6	7	6	6	6	6	6	7	9	2	5	4	6	4	7	2	3		101	inflammable gas
harmful substance			12	36	14	13	15	6	9	10	13	13	12	12	9	11	9	13	12	9	9	237	harmful substance
radiation			1																			1	radiation
other hazards, harmful substances			11	14	8	10	8	10	7	5	7	9	6	9	15	13	10	8	13	13	9	185	other hazards, harmful substances
metal material			272	209	199	211	218	211	166	189	178	169	169	166	179	158	180	205	192	185	183	3,639	metal material
lumber, bamboo			61	46	42	44	45	27	36	44	36	34	43	43	42	41	39	45	44	29	45	786	lumber, bamboo
stone, sand, substance			30	40	33	27	28	31	19	22	23	26	25	28	20	17	27	19	28	29	24	496	stone, sand, substance
other materials			57	55	56	68	50	37	39	33	50	50	39	58	51	40	44	31	31	43	53	885	other materials
load			97	84	80	85	81	80	75	69	65	56	79	63	55	77	84	84	88	93	85	1,480	load
machine/equipment as load			70	57	60	51	62	47	57	48	48	47	44	40	35	32	33	27	33	43	31	865	machine/equipment as load
natural ground, rock			27	23	25	25	28	25	18	26	25	31	24	31	38	25	33	29	32	37	38	540	natural ground, rock
standing tree			26	23	24	29	35	29	23	20	25	21	31	27	38	28	38	33	38	25	24	537	standing tree
water			3	1	3	1	2	3	2		38	5		2	4	1	2	1	2	4	3	77	water
abnormal environment				2	6	1	3	1				1	3		2	1	2	3	2	2	1	30	abnormal environment
high/cold temperature environment			15	11	10	12	28	12	10	34	20	18	23	31	23	21	21	49	30	38	32	438	high/cold temperature environment

other environments			27		25		30	20	15	26	16	13	34	31	40	38	32	40	37	46	46	28	42	586	other environments
other causal agent			35		21		20	19	24	20	16	19	14	14	33	28	17	20	22	31	14	58	425	850	other causal agent
no causal agent			70		56		51	43	45	48	55	46	50	60	56	55	65	49	73	69	78	73	88	1,130	no causal agent
unclassifiable			4		1		5	6	5	7	3	4	1	2	2	4	3	3	6	1	3	1	2	63	unclassifiable
total			3,368		3,098		3,113	3,128	3,084	3,018	2,532	2,520	2,724	2,660	2,746	2,898	2,719	2,729	2,808	2,931	2,958	2,820	3,399	55,253	total

Workers age of fatal and non-fatal accidents in other construction works 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	99	87	89	83	93	75	62	76	73	70	52	68	56	64	84	98	96	81	64	72	77	70	81	1,770	19 years old or less
20-29	896	869	817	750	686	670	624	583	565	530	447	425	481	463	454	506	444	444	513	479	474	541	665	13,326	20-29
30-39	639	631	684	620	679	705	727	757	762	698	609	640	594	607	595	609	539	558	513	543	537	509	620	14,375	30-39
40-49	641	602	604	553	534	496	518	515	509	568	461	476	547	535	574	640	624	604	643	704	699	630	769	13,446	40-49
50-59	842	852	814	733	731	762	764	810	735	698	523	534	551	498	523	511	470	504	515	533	565	549	639	14,656	50-59
60 years old or more	414	377	360	377	375	415	418	387	440	454	440	377	495	493	516	534	546	538	560	600	606	521	625	10,868	60 years old or more
total	3,531	3,418	3,368	3,116	3,098	3,123	3,113	3,128	3,084	3,018	2,532	2,520	2,724	2,660	2,746	2,898	2,719	2,729	2,808	2,931	2,958	2,820	3,399	68,441	total

Workers' number of workplace of fatal and non-fatal accidents in other construction works 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	1,922	1,886	1,898	1,812	1,789	1,777	1,811	1,766	1,782	1,722	1,459	1,453	1,470	1,486	1,523	1,604	1,467	1,497	1,549	1,612	1,608	1,497	1,742	38,132	9 workers or less
10-29	1,054	1,009	982	886	867	883	840	878	877	867	705	704	820	762	771	863	809	785	798	831	832	866	1,056	19,745	10-29
30-49	262	246	246	220	227	250	238	255	217	227	173	183	238	221	209	226	240	235	259	264	285	241	288	5,450	30-49

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	6	14	6	7	7	5	5	6	10	8	8	6	6	6	7	7	3	6	8	2	8	6	6	153	machine
crane, conveying machine	26	23	18	22	27	27	23	23	22	14	14	18	21	18	10	19	21	7	24	17	12	15	10	431	crane, conveying machine
other equipment	36	19	23	21	9	29	22	18	17	26	23	16	15	9	9	20	19	10	9	10	6	10	11	387	other equipment
temporary buildings, establishments	31	24	28	26	27	28	25	24	34	26	21	17	21	20	15	11	15	24	14	18	15	14	10	488	temporary buildings, establishments
substance, material	5	2	3		9	4	4	6	9	4	3	1	4	1	2	1	3	1		2	2	2	2	70	substance, material
load	2	3	3		1	2	2	2	4			1	1	2	2		2		1	3	2	2		35	load
environment	5	3	6	7	6	5	5	2	5	3	3	8	42	3	6	5	6	4	3	6	6	4	6	149	environment
others	1	1	2	2	2		1	2	1		1	2	1	2		2	2	2	4	1	3	1	2	35	others
total	112	89	89	85	88	100	87	83	102	81	73	69	111	61	51	65	71	54	63	59	54	54	47	1,748	total

Causal agents (middle) of fatal accidents in other construction works 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			2	engine	
power transmission mechanism					1				1																2	power transmission mechanism
woodworking machine		1	1						1			1				1									5	woodworking machine
construction machine	4	8	4	4	5	2	4	5	6	8	7	4	3	4	7	5	3	4	6	2	6	4	4	109	construction machine	

metal manufacturing machine	1	1		1	1							1		1		1							1	10	metal manufacturing machine	
general machine		4	1	2		3	1	1	2		1		3	1					2		1	2	1	25	general machine	
mobile silviculture machine																										mobile silviculture machine
crane	6	9	6	5	5	4	7	5	8	1	4	4	6	7	1	6	7	1	5	8	4	3	3	115	crane	
conveying machine	7	8	9	14	13	12	10	15	9	5	4	11	8	7	3	3	10	6	10	8	4	6	5	187	conveying machine	
vehicle	13	6	3	3	9	11	6	3	5	8	6	3	7	4	6	10	4		9	1	4	6	2	129	vehicle	
pressure vessel				2		6						3	1				1	1						14	pressure vessel	
chemical facilities				1		1			1	1						2								6	chemical facilities	
welding equipment						1	1	1				3	2	2				3			2				15	welding equipment
kiln, caldron	1					1									1									3	kiln, caldron	
electric equipment	22	9	10	8	3	12	13	6	7	15	6	6	2	4	1	8	7	8	7	3	1	1	5	164	electric equipment	
human power machine, tools	2	2		1			1		2	2	1		1		1					2	1	1		17	human power machine, tools	
tools	7	4	11	6	4	6	4	9	7	4	10	4	6	4	5	4	6	1	1	3	3	3	5	117	tools	
other equipments, facilities	4	4	2	3	2	2	3	2		4	3	1	3	1	1	6	2		1		1	5	1	51	other equipments, facilities	
temporary buildings, establishments	31	24	28	26	27	28	25	24	34	26	21	17	21	20	15	11	15	24	14	18	15	14	10	488	temporary buildings, establishments	
hazards, harmful substances	3	1	1		8	2	2	6	5	1	2					1	2	1		2	1	1		39	hazards, harmful substances	

mobile crane	1	4	3	4	1	2	1	4	4		2	2	1	3	1	2	4		4	7	3	1	2	56	mobile crane	
derrick crane										1			1												2	derrick crane
elevator, lift		2	1		2		2	1	1		1	1	2	3			1					2	1	20	elevator, lift	
cargo lifting appliance																										cargo lifting appliance
gondola	1																								1	gondola
lumberyard equipment, logging cableway			1																						1	lumberyard equipment, logging cableway
simple skyline yarding equipment																										simple skyline yarding equipment
other powered crane	1	1			2	1	2		2			1	2							1	1				14	other powered crane
truck	4	8	7	8	10	8	6	10	7	3	1	10	7	5	3	3	8	4	7	7	3	5	5	139	truck	
forklift	1		1	2	2	3	1	3	2	1	2			1			2	1	2			1		25	forklift	
railway equipment							1																		1	railway equipment
conveyor	2			3			2	2		1				1				1	1	1					14	conveyor
loader																										loader
straddle carrier																										straddle carrier
rough terrain hauler											1														1	rough terrain hauler
other powered conveying machines			1	1	1	1							1	1								1			7	other powered conveying machines
cars, bus, motorcycle	6	6	3	3	8	11	5	3	5	7	5	3	7	4	4	10	4		9	1	3	6	2	115	cars, bus, motorcycle	
railway vehicle	6				1										2										9	railway vehicle

hand tool	1							1															2	hand tool	
ladder	6	4	8	5	2	3	4	7	4	4	7	2	5	3	5	2	4		1	2	1	1	5	85	ladder
slinging tool	1		2	1	1	2		2	3		2	1	1			1	1	1				2		21	slinging tool
other tools			1		1	1					1	1		1		1	1			1	2			11	other tools
other equipment, facilities	4	4	2	3	2	2	3	2		4	3	1	3	1	1	6	2		1		1	5	1	51	other equipment, facilities
scaffolding	7	1	4	6	5	3	3		5	6	3	5	4	4	3		4	4	2	2	2	1	2	76	scaffolding
timbering								1																1	timbering
stairs, landing stage				1	3			2	3		1			1							1			12	stairs, landing stage
opening	1	4	2	2	2	6	1	3	3	1	3	2	5	2	2	2	1		2	2	3	1	1	51	opening
roof, beam, haze, crossbeam, principal rafter	11	5	6	6	3	7	6	6	9	5		4	6	5	6	4	2	8	4	7	5	3	1	119	roof, beam, haze, crossbeam, principal rafter
working platform, boot board	1	2	2	1	1	1			1	3		1	1	1		2	2	1			1		2	23	working platform, boot board
passage	2		1						1		1	1					2	2		2	1	1	1	15	passage
building, establishment	8	11	10	8	8	8	14	9	9	9	12	3	5	5	4	1	3	9	6	5	2	4	3	156	building, establishment
other temporary buildings, establishments	1	1	3	2	5	3	1	3	3	2	1	1		2		2	1					4		35	other temporary buildings, establishments
explosive substance																									explosive substance
inflammable substance		1			6			5	1	1												1		15	inflammable substance
inflammable gas						1	1		1											1				4	inflammable gas

harmful substance	1		1		2	1	1	1	3		1				1	1	1		1				15	harmful substance		
radiation																									radiation	
other hazards, harmful substances	2										1					1					1		5	other hazards, harmful substances		
metal material	1	1	2		1	2	2		3	2	1		1	1	1		1				1	1		21	metal material	
lumber, bamboo															1									1	lumber, bamboo	
stone, sand, substance																							1	1	stone, sand, substance	
other materials	1								1	1		1	3										1	8	other materials	
load	2		2		1	1											2		1	1	1	1		12	load	
machine/equipment as load		3	1			1	2	2	4			1	1	2	2						2	1	1		23	machine/equipment as load
natural ground, rock	2	1	2	2	2	2	1		2	1			1	1	2	1	2			2		1	1		26	natural ground, rock
standing tree	1		1	2			1		1		1	2			1	1	2	2	1	2	3	1			22	standing tree
water	2				1		2		1		1		34	1		1	1	1	1				1		47	water
abnormal environment		1			1		1	1											1			1	1		7	abnormal environment
high/cold temperature environment		1	3	3	2	1		1	1	1		6	3	1	2		1	1		2	3	1	1		34	high/cold temperature environment
other environments						2				1	1		4		1	2							2		13	other environments
other causal agent			2	1	2			1				1						1				1	1		10	other causal agent
no causal agent								1			1	1	1	2		1	2	1	3	1	3				17	no causal agent
unclassifiable	1	1		1			1		1							1			1				1		8	unclassifiable

total	112	89	89	85	88	100	87	83	102	81	73	69	111	61	51	65	71	54	63	59	54	54	47	1,748	total
-------	-----	----	----	----	----	-----	----	----	-----	----	----	----	-----	----	----	----	----	----	----	----	----	----	----	-------	-------

Workers age of fatal accidents in other construction works 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	1	1	3	1	1	1	2	1	1	2		3	2	1	2	1					1	2		26	19 years old or less
20-29	22	22	17	19	12	16	13	15	11	11	9	11	16	8	9	10	10	14	7	7	5	6	7	277	20-29
30-39	16	13	14	15	10	23	18	17	19	13	14	15	13	9	8	8	6	6	11	6	6	6	2	268	30-39
40-49	16	12	13	12	13	19	16	11	10	20	15	5	24	11	5	12	17	16	17	16	14	14	7	315	40-49
50-59	37	30	27	28	26	21	27	26	34	15	19	16	24	11	13	19	14	7	14	9	11	13	14	455	50-59
60 years old or more	20	11	15	10	26	20	11	13	27	20	16	19	32	21	14	15	24	11	14	21	17	13	17	407	60 years old or more
total	112	89	89	85	88	100	87	83	102	81	73	69	111	61	51	65	71	54	63	59	54	54	47	1,748	total

Workers' number of workplace of fatal accidents in other construction works 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	50	42	56	46	45	55	51	44	61	46	42	37	62	33	30	38	37	25	32	26	26	21	34	939	9 workers or less
10-29	40	31	16	29	23	30	27	29	27	21	14	23	36	16	15	21	26	21	16	24	19	21	7	532	10-29
30-49	13	6	7	5	9	4	4	4	7	9	10	3	7	6	3	3	4	3	8	4	2	8	5	134	30-49
50-99	6	4	8	4	10	3	5	3	2	3	5	5	3	1	2	2	4	3	4	4	3	2		86	50-99
100-299	3	5	1	1	1	5		2	3	2	1	1	3	5	1	1		2	2	1	4	1	1	46	100-299
300 workers or more		1	1			3		1	2		1								1			1		11	300 workers or more
total	112	89	89	85	88	100	87	83	102	81	73	69	111	61	51	65	71	54	63	59	54	54	47	1,748	total

Month of fatal accidents in other construction works 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	6	8	5	5	9	6	7	8	7	7	5	9	4	8	4	5	8	5	3	4	1	4	4	132	January
February	8	6	5	5	6	6	7	11	5	4	7	4	2	2	5	6	5	9	7	5	6	6	2	129	February
March	12	5	11	4	11	14	9	7	8	7	7	6	46	3	5	6	11	2	8	3	3	7		195	March
April	9	3	11	14	7	5	5	7	5	4	4	8	6	8	4	7	5	4	6	2	4	4	2	134	April
May	7	4	10	4	6	7	3	4	11	10	3	7	9	5	6	7	6	4	6	4	5	4	4	136	May
June	10	10	5	8	6	7	6	9	6	6	5	6	1	3	3	5	6	5	5	4	2	3	3	124	June
July	9	12	12	9	8	12	7	3	15	13	3	9	8	4	4	9	2	3	7	8	6	6	7	176	July
August	13	16	4	7	12	13	11	10	8	5	6	6	8	7	9	4	10	7	4	2	3	5	4	174	August
September	12	6	6	4	6	9	11	6	16	9	9	3	4	10	4	5	4	7	6	8	5	4	5	159	September
October	6	4	7	10	7	11	6	3	11	6	7	4	2	4	2	2	7	2	3	10	7	2	5	128	October
November	13	8	6	5	7	5	10	3	4	7	5	2	11	7	4	5	3	1	3	6	10	5	5	135	November
December	7	7	7	10	3	5	5	12	6	3	12	5	10		1	4	4	5	5	3	2	4	6	126	December
total	112	89	89	85	88	100	87	83	102	81	73	69	111	61	51	65	71	54	63	59	54	54	47	1,748	total

Prefecture of fatal accidents in other construction works 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	5	5	6		6	4	3	3	10	5	5	2		1		2	8	4	4	2	2	2	2	81	Hokkaido
Aomori	1				2	2	2	1	2	1	1	2	3	1	1	3	1	1		1			1	26	Aomori
Iwate	3	2	1	3	1	4				1			12			2		1		1		1		32	Iwate
Miyagi	4	4	1		1	1	3	1	1	1	1	3	17							2				40	Miyagi
Akita	1		1						1	3		1	1	1	1	1		1	2	2	1		1	18	Akita
Yamagata	1		1	1		1		1				1	1	1	1		1							10	Yamagata

Fukushima	1	2	2	3	3	3	6	2	2	1	2	4	18	3	5	2	5	4	1	4	4	4	2	83	Fukushima
Ibaraki	2		4	6		3	5	2	6	2	2		6	2	3	3	4		1	3	3	1		58	Ibaraki
Tochigi	2		1	1		1	1	2		2	2	4	2	1	1	1	1	1	1			1	1	26	Tochigi
Gunma	2	1	2	1			4		3	2	1	1	2			5	1	2		3				30	Gunma
Saitama	3	1	3	4	1	3	3	3	2	5	5	1	1	3	1	3	4	3	1	2	4	2	2	60	Saitama
Chiba	5	5	4	5	5	5	2	8	2	3	5	4	4	2	4	8	3	5	2	3	4	4		92	Chiba
Tokyo	8	11	12	6	5	8	3	5	9		2	4	5	2	4	2	7	5	5	4		4	3	114	Tokyo
Kanagawa	5	5	4	4	6	5	2	4	5	4	4	1	3	4	3		1	4			1	1	1	67	Kanagawa
Niigata	6			1		1		4	2	1	2			1	3		2	2	1		2	2		30	Niigata
Toyama				1	1	1					1					1	1					1		7	Toyama
Ishikawa	1	1	1	2		2		1					1	1		2			2	1		1	1	17	Ishikawa
Fukui				2		5			1	3	1	1	2	2	1		3	1	2			1		25	Fukui
Yamanashi	2	1	2	1	1				1			3		1					1				1	14	Yamanashi
Nagano	3	1	1	1	1	3	1	2	1		2	3		1		4		1	1	1	1		1	29	Nagano
Gifu	2	1		1	2	2	3		1	3	3	1	1	1	1	1	2	2			1	1	1	30	Gifu
Shizuoka	1			2	1	2	4	2	2	4	1	2	4	1		1	2			1	3	1	2	36	Shizuoka
Aichi	7	6	7	3	10	4	3	3	4	6	1	4	3	5	2	3	7		3	3	4	4		92	Aichi
Mie		4		1	4	1	2	5	5	1		3			1	3		1	3	3		5	1	43	Mie
Shiga	1	3		4	2	5	2	1		1	1	1	1		1				2	2	1	4		32	Shiga
Kyoto	1	1	2	1	1	2	1	2	3	3	2	3	1	1		1			1				1	27	Kyoto
Osaka	6	7	9	5	8	3	6	4	11	6	11	4	8	9	3	3	3	2	6	6	6	2	4	132	Osaka
Hyogo	3	8	5	6	5	4	5	5	6	7	6	5	2	1	1	2	4	1	3	2	1	3	2	87	Hyogo
Nara	1	1							2		1			1							1	1	3	11	Nara
Wakayama	3				2				2	1			2	1							1			12	Wakayama

Tottori																							1	1	Tottori
Shimane	1		1				1	1	1		2	1				1		1						10	Shimane
Okayama	2	1	4	3	1	2	2	2	3	1		3	1	2	2	2	1	1	2	1	3	1	2	42	Okayama
Hiroshima	3	2	3	3	1	3	2	3	4		1		1	2	1	1		1	4		1		1	37	Hiroshima
Yamaguchi	2	1	2	1	3	2		2	1		2		1		1	1	1	1	2	3	1	2	2	31	Yamaguchi
Tokushima		1		2	1	2	1		1	1					3						1		2	15	Tokushima
Kagawa	2			1		1	1	1		1		1	1			1			1					11	Kagawa
Ehime	2		2		4			6	1	1		1		1	1		1		2	1	3	1	1	28	Ehime
Kochi	2			1	1	1		1			1		1	1						1				10	Kochi
Fukuoka	7	6	1	4	5	4	8	2	2	4	3		2	2	2	3	1	1		2	1	1	4	65	Fukuoka
Saga								1						1			2						1	5	Saga
Nagasaki	2	3	2	2			1			1		1	1		2	1	1	1	2					20	Nagasaki
Kumamoto	1	1	1		1		2	1	2	2				2	1		1	2	2	1		1		21	Kumamoto
Oita	3		2	1	1	2	5		2	2	1		1	3		1	1	2	3		1	2	1	34	Oita
Miyazaki	1	2	1	1	1	6	2	1				1						2		1			1	20	Miyazaki
Kagoshima	4			1		1		1				1	1				1	1	2	1	1			15	Kagoshima
Okinawa		2	1		1	1	1		1	2	1	2	1		1	1	1		2	1	2		1	22	Okinawa
total	112	89	89	85	88	100	87	83	102	81	73	69	111	61	51	65	71	54	63	59	54	54	47	1,748	total

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