

Fatal and non-fatal accidents in civil engineering work in Japan in 1999-2021

civil engineering work industry Code No.0301

Type of accidents in civil engineering work 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	2,072	1,917	1,761	1,612	1,433	1,413	1,318	1,218	1,201	1,176	996	1,012	1,002	971	1,033	1,038	918	864	918	889	925	890	962	27,539	fall from height
falling to same level	981	881	748	705	658	555	566	529	438	519	412	419	446	459	457	490	441	422	453	445	430	460	482	12,396	falling to same level
crash	450	429	382	342	278	257	278	268	222	207	192	203	190	191	222	182	194	158	192	181	184	196	177	5,575	crash
struck by flying or falling object	1,504	1,403	1,191	1,091	949	842	833	745	687	665	619	571	568	568	509	511	459	467	450	406	386	400	412	16,236	struck by flying or falling object
collapse	526	476	437	391	336	318	305	284	252	273	207	192	182	194	185	192	190	159	158	163	138	153	162	5,873	collapse
crashed by	966	883	786	687	660	617	570	518	509	445	418	389	368	391	364	373	353	301	306	335	351	353	342	11,285	crashed by
caught in/between	1,880	1,729	1,583	1,488	1,266	1,176	1,090	957	879	852	791	717	669	727	710	722	651	546	647	615	590	608	622	21,515	caught in/between
cut	578	575	513	446	424	430	384	356	352	318	310	334	296	308	296	294	275	266	326	278	260	305	294	8,218	cut
injury to the sole of the foot	33	22	32	20	18	18	23	19	4	14	14	14	21	9	11	11	11	15	10	10	12	9	14	364	injury to the sole of the foot
drown	9	5	8	9	8	8	6	9	4	14	10	5	31	12	4	15	4	5	7	8	3	5	9	198	drown
contact to high/low-temperature	86	106	93	90	66	57	64	52	68	60	34	93	64	76	75	54	58	52	61	91	79	89	66	1,634	contact to high/low-temperature
contact to harmful	37	44	42	32	13	26	24	28	22	26	14	21	14	14	19	16	11	23	21	18	14	23	23	525	contact to harmful

substance																										substance
electric shock	2	12	7	7	4	4	2	2	4	5	2	7	2	3	4	6	4	4	3	3	3	2	4	96	electric shock	
explosion	10	11	9	4	2	6	5	4	2	8	3	5	2	9	1	1			3	2	1	2	1	91	explosion	
burst	13	8	11	8	2	4	6	3	5	3	4	3	4	3	1	2	1	5	4	4	3	1	4	102	burst	
fire	7	13	13	7	16	6	7	15	2	4	8		4	1	3	4	3	2	3	3	17	1	3	142	fire	
traffic accident (public road)	417	335	356	324	323	257	275	243	229	188	174	192	172	224	223	181	175	217	188	178	169	166	171	5,377	traffic accident (public road)	
traffic accident (others)	12	6	3	14	1	3	10	2	4	1	3	2	4	5	2	6	1	3	2	2	3	3	6	98	traffic accident (others)	
reaction to motion/improper motion	380	381	355	295	279	234	241	241	221	202	197	212	196	191	222	202	173	216	223	231	207	234	245	5,578	reaction to motion/improper motion	
others	40	46	39	26	27	45	43	62	32	33	31	19	64	33	21	27	29	34	36	24	25	60	277	1,073	others	
unclassifiable	11	10	9	4	9	6	3	9	4	4	7	5	2	3	12	4	5	1	4	3	8	3	1	127	unclassifiable	
total	10,014	9,292	8,378	7,602	6,772	6,282	6,053	5,564	5,141	5,017	4,446	4,415	4,301	4,392	4,374	4,331	3,956	3,760	4,015	3,889	3,808	3,963	4,277	124,042	total	

Causal agents (large) of fatal and non-fatal accidents in civil engineering work 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	2,258	2,008	1,795	1,704	1,572	1,431	1,365	1,227	1,182	1,145	983	1,050	931	995	984	1,002	879	849	902	789	816	878	872	27,617	machine
crane, conveying machine	1,742	1,642	1,501	1,488	1,333	1,200	1,178	1,060	1,002	968	877	861	822	843	891	874	791	747	792	819	776	762	824	23,793	crane, conveying machine
other equipment	1,126	1,047	967	812	774	741	741	651	621	635	590	527	568	544	494	534	507	452	506	458	467	521	528	14,811	other

																										equipment
temporary buildings, establishments	1,685	1,541	1,483	1,245	1,141	1,034	986	965	873	889	714	695	703	706	745	727	684	673	703	684	690	686	747	20,999	temporary buildings, establishments	
substance, material	1,679	1,706	1,354	1,206	954	853	863	788	722	607	584	543	527	541	468	493	435	433	453	411	438	408	400	16,866	substance, material	
load	210	227	226	223	160	181	145	124	128	131	112	107	100	118	113	102	114	85	97	108	98	89	116	3,114	load	
environment	1,096	920	885	776	696	709	649	628	528	541	468	531	545	560	564	509	456	415	437	498	414	473	438	13,736	environment	
others	218	201	167	148	142	133	126	121	85	101	118	101	105	85	115	90	90	106	125	122	109	146	352	3,106	others	
total	10,014	9,292	8,378	7,602	6,772	6,282	6,053	5,564	5,141	5,017	4,446	4,415	4,301	4,392	4,374	4,331	3,956	3,760	4,015	3,889	3,808	3,963	4,277	124,042	total	

Causal agents (middle) of fatal and non-fatal accidents in civil engineering work 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	9	6	2	4	2	2	6	2	3	9	4	3	1	1	4	2	1	1	2	3	1		2	70	engine
power transmission mechanism	10	12	16	7	10	12	9	5	6	10	4	6	4	3	7	2	6	3	2	5	1	3	1	144	power transmission mechanism
woodworking machine	278	261	244	222	228	200	188	166	167	148	153	162	148	135	152	150	106	130	139	125	128	149	144	3,923	woodworking machine
construction machine	1,595	1,363	1,224	1,155	1,024	962	930	812	749	786	622	660	590	646	644	643	554	530	532	464	501	515	522	18,023	construction machine
metal manufacturing machine	112	112	91	102	94	66	82	67	79	65	54	67	56	68	54	72	67	63	69	62	45	61	57	1,665	metal manufacturing machine

general machine	254	254	218	214	214	189	150	175	178	127	146	152	132	142	123	133	137	118	149	124	135	142	136	3,742	general machine
mobile silviculture machine																	8	4	9	6	5	8	10	50	mobile silviculture machine
crane	399	405	328	353	312	282	280	234	221	245	212	192	186	165	205	197	185	154	173	177	173	178	171	5,427	crane
conveying machine	1,010	971	911	881	762	718	686	625	606	563	499	505	503	513	518	534	468	429	489	502	468	446	527	14,134	conveying machine
vehicle	333	266	262	254	259	200	212	201	175	160	166	164	133	165	168	143	138	164	130	140	135	138	126	4,232	vehicle
pressure vessel	10	6	3	7	10	3	1	5	3	2	3	2		3	1	4	2	3	2	4	2	3	2	81	pressure vessel
chemical facilities			1																					1	chemical facilities
welding equipment	13	10	6	3	7	8	10	4	10	3	8	4	4	2		3	3	2	2	5	3	5	4	119	welding equipment
kiln, caldron	1	2	2		2		1	2		1	3		1		1				1		1	1		19	kiln, caldron
electric equipment	9	8	19	6	10	8	5	6	6	9	5	7	4	8	2	8	4	9	6	3	6	3	9	160	electric equipment
human power machine, tools	366	337	314	247	253	238	203	192	148	180	178	141	149	145	128	144	119	95	122	113	122	130	123	4,187	human power machine, tools
tools	650	592	543	486	449	428	458	396	388	398	357	329	370	342	328	322	335	298	324	293	306	334	346	9,072	tools
other equipments, facilities	77	92	79	63	43	56	63	46	66	42	36	44	40	44	34	53	44	45	49	40	27	45	44	1,172	other equipments, facilities
temporary buildings, establishments	1,685	1,541	1,483	1,245	1,141	1,034	986	965	873	889	714	695	703	706	745	727	684	673	703	684	690	686	747	20,999	temporary buildings, establishments

hazards, harmful substances	64	87	68	60	25	37	35	40	31	27	18	22	21	34	21	16	10	21	27	21	33	28	25	771	hazards, harmful substances
materials	1,615	1,619	1,286	1,146	929	816	828	748	691	580	566	521	506	507	447	477	425	412	426	390	405	380	375	16,095	materials
load	210	227	226	223	160	181	145	124	128	131	112	107	100	118	113	102	114	85	97	108	98	89	116	3,114	load
natural environment	1,096	920	885	776	696	709	649	628	528	541	468	531	545	560	564	509	456	415	437	498	414	473	438	13,736	natural environment
other causal agent	69	56	49	37	43	40	35	34	22	20	24	18	34	16	21	18	19	25	36	26	15	54	257	968	other causal agent
no causal agent	133	125	107	100	89	76	84	78	58	72	81	73	63	64	85	69	66	79	84	95	88	91	93	1,953	no causal agent
unclassifiable	16	20	11	11	10	17	7	9	5	9	13	10	8	5	9	3	5	2	5	1	6	1	2	185	unclassifiable
total	10,014	9,292	8,378	7,602	6,772	6,282	6,053	5,564	5,141	5,017	4,446	4,415	4,301	4,392	4,374	4,331	3,956	3,760	4,015	3,889	3,808	3,963	4,277	124,042	total

Causal agents (small) of fatal and non-fatal accidents in civil engineering work 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			2		2		6	2	3	9	4	3	1	1	4	2	1	1	2	3	1		2	49	engine
power transmission mechanism			16		10		9	5	6	10	4	6	4	3	7	2	6	3	2	5	1	3	1	103	power transmission mechanism
circular sawing machine			137		114		98	83	90	69	57	67	53	57	63	53	33	43	37	41	37	39	32	1,203	circular sawing machine
band sawing machine			1		2					1	1				1				1			1		8	band sawing machine
wood planer machine			7		3		1	1	2	3	1	2	1	1	2	1		3		2	1	1	1	33	wood planer machine

buffing machine			41		49		48	30	46	40	34	37	29	49	37	46	43	35	56	40	31	41	34	766	buffing machine
power press			1		1			1							1		2						1	7	power press
forging pressure hammer									2								1							3	forging pressure hammer
shearing machine			1				1					1	2		1								1	7	shearing machine
other metal manufacturing machines			44		40		30	32	28	17	18	25	22	16	15	25	20	25	13	18	12	18	20	438	other metal manufacturing machines
centrifugal machine																									centrifugal machine
mixer, grinder			23		15		5	10	24	10	11	17	16	15	14	13	10	4	8	13	10	8	9	235	mixer, grinder
roll machine (except printingroll machine)								1					1			1	1							4	roll machine (except printingroll machine)
injection molding machine												1												1	injection molding machine
food manufacturing machine																									food manufacturing machine
printing machine																									printing machine
industrial robot					1								1											2	industrial robot
other general power machines			195		198		145	164	154	117	135	134	114	127	109	119	126	114	141	111	125	134	127	2,589	other general power machines
felling machine																	7	4	5	6	3	6	5	36	felling machine
mobile logging machine																	1		4		1	1	1	8	mobile logging machine
skyline yarding																							1	1	skyline yarding

machine																								machine	
other mobile silviculture machine																				1		4	5	other mobile silviculture machine	
crane			41		53		36	27	38	25	27	23	23	31	23	22	11	17	16	22	34	24	516	crane	
mobile crane			267		242		225	191	168	205	177	162	153	135	165	167	154	138	146	154	140	143	133	3,265	mobile crane
derrick crane								2								1								3	derrick crane
elevator, lift								1	1	1	1		1				1		1	1				8	elevator, lift
cargo lifting appliance			1		2		1		1					1	1			3		2				12	cargo lifting appliance
gondola					1						1		1										1	4	gondola
lumberyard equipment, logging cableway					1		2	3	1	2	2	3	1	2									2	19	lumberyard equipment, logging cableway
simple skyline yarding equipment																1				1				2	simple skyline yarding equipment
other powered crane			19		13		16	10	12	12	4	4	8	4	8	5	8	4	7	5	8	1	11	159	other powered crane
truck			800		666		595	552	547	496	429	467	453	463	457	474	420	392	446	443	420	399	471	9,390	truck
forklift			10		9		14	11	9	11	8	6	11	4	9	8	9	3	8	7	10	8	12	167	forklift
railway equipment			9		2		5	6	6	6	6	3	2	4	6	3	10	1	2	5	4	4	9	93	railway equipment
conveyor			13		20		14	10	8	12	7	5	7	10	7	7	4	9	8	14	7	9	6	177	conveyor
loader			13		7		9	10	4	7	5		2	3	4	6	2	3	1	3	5	5	5	94	loader
straddle carrier							1													1		1		3	straddle carrier
rough terrain hauler			24		24		16	16	13	17	27	8	13	8	12	14	12	5	13	10	12	9	13	266	rough terrain hauler
other powered			42		34		32	20	19	14	17	16	15	21	23	22	11	16	11	19	10	11	11	364	other powered

conveying machines																									conveying machines
cars, bus, motorcycle			240		237		189	187	157	143	144	150	119	155	153	133	125	145	117	128	118	125	113	2,878	cars, bus, motorcycle
railway vehicle			3		1		4	1	1	2	5	1		1	2	1	3	3	4	1	3	3	1	40	railway vehicle
other vehicles			19		21		19	13	17	15	17	13	14	9	13	9	10	16	9	11	14	10	12	261	other vehicles
boiler							1					1		1								1		4	boiler
pressure vessel					2				2			1						1				1	1	8	pressure vessel
other pressure vessels			3		8		1	4	1	2	3			2	1	4	2	2	2	4	2	1	1	43	other pressure vessels
chemical facilities			1																					1	chemical facilities
gas welding equipment			4		5		7	1	4	2	7	1	4	1		1	1	2	1	3	2		3	49	gas welding equipment
arc welding equipment			1		2		3	2	5	1		2				1	2		1	2	1	5		28	arc welding equipment
other welding equipment			1					1	1			1	1		1								1	8	other welding equipment
kiln, caldron			1		1			2		1	1		1		1				1			1		10	kiln, caldron
industrial dryer																									industrial dryer
other kiln, caldron			1		1		1				2										1			6	other kiln, caldron
transmission			4		3			3	2	5				3	1	4	2	4	3	2	1	1	1	39	transmission
electric power facilities			1		1		3	2	2		1	4	2			1	1	2	1	1	1		2	25	electric power facilities
other electrical equipment			14		6		2	1	2	4	4	3	2	5	1	3	1	3	2		4	2	6	65	other electrical equipment
human power			3		10			8	3	8	7	2	12	4	6	6	2	3	8		3	4	10	99	human power

cranes																									cranes
human power hauling equipment			33		28		25	21	17	20	15	16	23	13	17	19	9	9	12	15	19	12	15	338	human power hauling equipment
human power machine			11		9		11	8	4	3	6	6	3	1	5	2	5	2	4	7	6	7	5	105	human power machine
hand tool			267		206		167	155	124	149	150	117	111	127	100	117	103	81	98	91	94	107	93	2,457	hand tool
ladder			297		248		261	231	207	231	223	200	216	209	214	202	221	190	204	194	204	216	216	4,184	ladder
slinging tool			100		100		91	79	75	69	70	61	59	61	45	42	56	42	49	41	44	52	50	1,186	slinging tool
other tools			146		101		106	86	106	98	64	68	95	72	69	78	58	66	71	58	58	66	80	1,546	other tools
other equipment, facilities			79		43		63	46	66	42	36	44	40	44	34	53	44	45	49	40	27	45	44	884	other equipment, facilities
scaffolding			190		131		113	92	111	102	71	66	71	56	80	74	64	53	63	43	57	45	39	1,521	scaffolding
timbering			113		59		45	49	50	44	36	31	18	23	23	12	28	12	22	21	15	14	19	634	timbering
stairs, landing stage			78		66		57	57	57	52	64	40	47	68	60	45	49	56	33	39	50	48	49	1,015	stairs, landing stage
opening			42		25		32	25	34	23	22	15	14	23	24	21	20	27	24	31	27	28	26	483	opening
roof, beam, haze, crossbeam, principal rafter			50		37		43	39	24	29	23	26	36	18	35	19	19	23	14	31	28	20	19	533	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			169		152		104	104	89	128	106	76	69	77	66	107	80	74	90	81	74	65	84	1,795	working platform, boot board
passage			250		196		200	200	150	174	141	153	158	153	151	171	154	193	195	188	167	191	226	3,411	passage
building, establishment			423		320		250	259	247	224	162	194	182	190	197	182	170	148	163	164	182	176	182	4,015	building, establishment
other temporary buildings, establishments			168		155		142	140	111	113	89	94	108	98	109	96	100	87	99	86	90	99	103	2,087	other temporary buildings, establishments

explosive substance			2		1			1	2	2					1			1		1	1		1	13	explosive substance	
inflammable substance			17		7			8	9	5	6	4	1	4	6	1	3	3	3	6	2	6	3	3	97	inflammable substance
inflammable gas			10		9			9	11	5	8	1	3	2	14	2	3		2	4	3	4	4		94	inflammable gas
harmful substance			20		1			7	14	9	4	5	8	6	7	8	8	5	6	8	9	1	9	5	140	harmful substance
radiation																										radiation
other hazards, harmful substances			19		7			11	5	10	7	8	10	9	7	9	2	2	9	9	6	21	12	16	179	other hazards, harmful substances
metal material			564		427			396	340	329	285	257	269	256	228	205	204	211	188	209	203	195	175	173	5,114	metal material
lumber, bamboo			164		116			113	107	99	78	102	64	65	84	63	66	72	73	70	58	60	63	58	1,575	lumber, bamboo
stone, sand, substance			300		225			191	159	131	110	111	95	94	101	99	117	68	86	73	73	76	72	76	2,257	stone, sand, substance
other materials			258		161			128	142	132	107	96	93	91	94	80	90	74	65	74	56	74	70	68	1,953	other materials
load			187		124			108	96	105	98	90	93	75	94	89	84	96	65	84	88	79	79	101	1,835	load
machine/equipment as load			39		36			37	28	23	33	22	14	25	24	24	18	18	20	13	20	19	10	15	438	machine/equipment as load
natural ground, rock			517		439			366	344	296	279	232	244	216	257	263	217	199	194	174	185	174	181	187	4,964	natural ground, rock
standing tree			172		147			162	136	138	153	171	143	151	144	132	140	134	120	124	145	113	131	116	2,672	standing tree
water			14		13			7	10	3	10	7	4	59	9	4	15	3	4	8	11	6	11	11	209	water
abnormal environment			10		4			5	4	5	9	2	5	5	5	5	3	2	6	4		3	1	4	82	abnormal environment
high/cold temperature environment			54		26			31	40	37	38	9	70	38	54	69	42	37	37	44	78	57	76	45	882	high/cold temperature environment

other environments			118		67		78	94	49	52	47	65	76	91	91	92	81	54	83	79	61	73	75	1,426	other environments
other causal agent			49		43		35	34	22	20	24	18	34	16	21	18	19	25	36	26	15	54	257	766	other causal agent
no causal agent			107		89		84	78	58	72	81	73	63	64	85	69	66	79	84	95	88	91	93	1,519	no causal agent
unclassifiable			11		10		7	9	5	9	13	10	8	5	9	3	5	2	5	1	6	1	2	121	unclassifiable
total			8,378		6,772		6,053	5,564	5,141	5,017	4,446	4,415	4,301	4,392	4,374	4,331	3,956	3,760	4,015	3,889	3,808	3,963	4,277	90,852	total

Workers age of fatal and non-fatal accidents in civil engineering work 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	278	236	201	182	146	103	87	74	74	65	71	89	81	84	110	106	79	83	100	67	67	72	76	2,531	19 years old or less
20-29	1,577	1,506	1,435	1,341	1,077	914	872	766	616	586	487	489	435	494	457	423	389	381	437	404	382	451	557	16,476	20-29
30-39	1,198	1,218	1,110	1,052	1,048	1,017	1,002	963	903	893	788	836	848	783	742	698	622	569	553	517	491	495	582	18,928	30-39
40-49	1,690	1,544	1,420	1,311	1,152	1,050	930	893	820	818	775	799	749	849	852	849	835	788	842	830	769	780	910	22,255	40-49
50-59	2,713	2,527	2,361	2,081	1,939	1,850	1,840	1,650	1,515	1,475	1,230	1,085	1,052	989	992	952	838	762	822	817	825	840	901	32,056	50-59
60 years old or more	2,558	2,261	1,851	1,635	1,410	1,348	1,322	1,218	1,213	1,180	1,095	1,117	1,136	1,193	1,221	1,303	1,193	1,177	1,261	1,254	1,274	1,325	1,251	31,796	60 years old or more
total	10,014	9,292	8,378	7,602	6,772	6,282	6,053	5,564	5,141	5,017	4,446	4,415	4,301	4,392	4,374	4,331	3,956	3,760	4,015	3,889	3,808	3,963	4,277	124,042	total

Workers' number of workplace of fatal and non-fatal accidents in civil engineering work 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	4,571	4,362	3,858	3,669	3,409	3,201	3,102	2,842	2,715	2,670	2,287	2,264	2,200	2,225	2,215	2,210	1,994	1,856	1,960	1,942	1,844	1,861	1,924	61,181	9 workers or less
10-29	3,904	3,529	3,220	2,807	2,444	2,216	2,208	2,029	1,792	1,739	1,593	1,606	1,507	1,538	1,551	1,503	1,366	1,302	1,430	1,358	1,376	1,459	1,617	45,094	10-29

30-49	976	867	800	690	544	536	442	445	392	407	375	333	369	386	365	379	384	358	406	380	371	404	453	11,062	30-49
50-99	397	387	345	299	262	236	215	191	174	149	147	146	170	173	164	171	165	167	172	156	157	163	190	4,796	50-99
100-299	158	131	145	125	102	87	77	50	60	42	40	60	46	66	78	65	43	73	41	47	53	68	87	1,744	100-299
300 workers or more	8	16	10	12	11	6	9	7	8	10	4	6	9	4	1	3	4	4	6	6	7	8	6	165	300 workers or more
total	10,014	9,292	8,378	7,602	6,772	6,282	6,053	5,564	5,141	5,017	4,446	4,415	4,301	4,392	4,374	4,331	3,956	3,760	4,015	3,889	3,808	3,963	4,277	124,042	total

Month of fatal and non-fatal accidents in civil engineering work 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	862	842	709	662	598	624	518	510	436	465	421	387	406	392	388	388	358	304	362	335	331	273	377	10,948	January
February	923	921	767	769	719	648	569	590	509	539	444	431	375	454	362	402	323	353	370	349	337	363	387	11,904	February
March	960	925	919	726	689	660	589	489	499	492	410	479	439	401	420	389	335	315	324	346	327	341	357	11,831	March
April	711	614	619	520	464	416	431	374	337	359	268	285	265	302	302	315	272	308	271	265	266	289	279	8,532	April
May	705	642	548	516	447	371	413	381	358	346	313	307	288	318	291	349	263	274	292	283	269	270	326	8,570	May
June	729	676	615	565	490	466	483	374	392	349	336	325	324	305	300	288	318	292	321	303	275	313	343	9,182	June
July	859	797	711	648	611	522	504	439	430	452	362	352	325	362	412	434	371	361	395	385	371	300	397	10,800	July
August	810	765	657	617	523	449	478	467	436	390	354	354	390	371	367	338	340	315	334	337	327	359	392	10,170	August
September	866	728	655	617	563	507	471	461	397	402	353	373	344	337	382	333	342	310	266	310	316	357	371	10,061	September
October	857	805	744	679	582	555	507	501	443	459	404	394	388	377	364	406	359	327	350	380	356	361	368	10,966	October
November	914	780	724	686	526	566	587	521	450	374	405	360	407	360	417	334	363	319	378	334	330	396	349	10,880	November
December	818	797	710	597	560	498	503	457	454	390	376	368	350	413	369	355	312	282	352	262	303	341	331	10,198	December
total	10,014	9,292	8,378	7,602	6,772	6,282	6,053	5,564	5,141	5,017	4,446	4,415	4,301	4,392	4,374	4,331	3,956	3,760	4,015	3,889	3,808	3,963	4,277	124,042	total

Prefecture of fatal and non-fatal accidents in civil engineering work in 1999-2021

Okinawa	45	38	30		30		33	24	31	31	21	33	42	32	22	29	36	31	38	30	39	31	34	680	Okinawa
total	10,014	9,292	8,378		6,772		6,053	5,564	5,141	5,017	4,446	4,415	4,301	4,392	4,374	4,331	3,956	3,760	4,015	3,889	3,808	3,963	4,277	110,158	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 civil engineering work in Japan in 1999-2021

civil engineering work industry Code No.0301

Type of fatal accidents in civil engineering work 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	105	83	59	55	69	65	56	44	45	34	31	39	33	39	35	23	19	26	34	30	25	25	19	993	fall from height
falling to same level	15	16	12	8	10	7	9	5	5	3	5	8	4	6	6	7	6	2	2	3	2	4	5	150	falling to same level
crash	3	1	2	1	2	4	1		1		3	1		2	2	1				1	1		1	27	crash
struck by flying or falling object	32	28	16	20	11	11	10	13	16	13	10	8	8	5	8	8	8	7	7	10	5	6	4	264	struck by flying or falling object
collapse	65	42	45	46	40	31	23	25	20	23	22	17	13	21	22	17	12	13	15	11	18	14	13	568	collapse
crashed by	38	50	34	23	16	27	27	25	16	18	18	12	13	19	15	19	17	13	14	13	14	9	11	461	crashed by
caught in/between	66	52	52	47	39	31	32	25	25	28	26	21	15	22	10	21	24	10	20	18	6	17	15	622	caught in/between

cut	2	3		1			2	1	1	1		1	1	2	1	1				3	1	1		22	cut	
injury to the sole of the foot																										injury to the sole of the foot
drown	5	6	5	7	7	9	4	6	3	14	7	4	31	11	4	14	3	4	5	7	3	3	9	171	drown	
contact to high/low-temperature	5	8	8	8	3	2	2	4	1	5		6	1	5	3	1	3	2	3	1	2	2	4	79	contact to high/low-temperature	
contact to harmful substance	1	7	3	2		2	1	5	1	8	1	5	2		4	3	2		1			2	3	53	contact to harmful substance	
electric shock	1			1		1	1	1	1									1					2	9	electric shock	
explosion	1						1			2		1		2	1									8	explosion	
burst		1	1				1			1		1												5	burst	
fire	1	3	2					1			1				1	3							1	13	fire	
traffic accident (public road)	60	48	58	35	34	35	28	31	23	16	22	16	14	14	15	19	9	18	19	11	10	15	10	560	traffic accident (public road)	
traffic accident (others)			1	6	1	1	4	2	1		3		1	2					1		1	1	1	26	traffic accident (others)	
reaction to motion/improper motion																										reaction to motion/improper motion
others	4	2	1	1	2	4	5	11	1	2			30	3	3	1	3	4	2	2	1	3	3	88	others	
unclassifiable	1			1				1			1		1		1		1			1	1		1	10	unclassifiable	
total	405	350	299	262	234	230	207	200	160	168	150	140	167	153	131	138	107	100	123	111	90	102	102	4,129	total	

Causal agents (large) of fatal accidents in civil engineering work in 1999-2021

construction machine	103	90	70	55	67	49	51	49	34	42	38	37	28	35	24	31	18	22	27	26	12	28	22	958	machine	
metal manufacturing machine				1																				1	metal manufacturing machine	
general machine	5	2	3	3	1	1	4	4	1		3	2	3	3	2	4	4	1	1	4			4	55	general machine	
mobile silviculture machine																	1	1	3		1			6	mobile silviculture machine	
crane	12	22	17	13	14	16	9	5	8	5	8	9	3	5	5	10	8	8	4	7	5	5	5	203	crane	
conveying machine	70	59	56	41	26	41	35	23	35	21	28	18	8	21	13	17	12	16	23	11	17	13	11	615	conveying machine	
vehicle	35	24	30	29	19	19	20	23	7	8	13	10	12	11	9	11	9	8	6	9	5	9	8	334	vehicle	
pressure vessel		1		1			1																	3	pressure vessel	
chemical facilities																										chemical facilities
welding equipment			1						1											1				3	welding equipment	
kiln, caldron																										kiln, caldron
electric equipment	1		1												1			1						4	electric equipment	
human power machine, tools	1		1		1	1		2			1		1	1					1					10	human power machine, tools	
tools	12	14	12	6	10	6	13	11	6	10	4	6	5	4	4	4	6	2	4	3	2	2	5	151	tools	
other equipments, facilities	2					1	2	1	1		2			2				1						12	other equipments, facilities	
temporary buildings, establishments	68	41	39	38	37	34	20	26	23	20	16	24	20	28	16	18	16	11	21	18	15	13	14	576	temporary buildings, establishments	

hazards, harmful substances	2	7		2			2		1	3	1	3	2	3	4	3	1		1			2	2	39	hazards, harmful substances
materials	12	8	5	6	3	3	5	3	4	3	3		2	3	1	2			3	3		3	1	73	materials
load	4	3	3	1	2	1	3	1		3	1	2		2	2	1	1	1				2		33	load
natural environment	75	75	59	62	54	55	40	48	39	47	31	29	78	31	44	32	27	23	27	25	29	23	26	979	natural environment
other causal agent		1	2			1					1					3						1	2	11	other causal agent
no causal agent						1		2		1			4	3	3	1	3	4	2	2	2		1	29	no causal agent
unclassifiable	2	2		2		1		1					1	1	2		1	1					1	15	unclassifiable
total	405	350	299	262	234	230	207	200	160	168	150	140	167	153	131	138	107	100	123	111	90	102	102	4,129	total

Causal agents (small) of fatal accidents in civil engineering work 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		3														5	engine		
power transmission mechanism				1						1											1				3	power transmission mechanism	
circular sawing machine	1	1		1			1								1	1					1	1			8	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

forging pressure hammer																								hammer	
shearing machine																								shearing machine	
other metal manufacturing machines																								other metal manufacturing machines	
centrifugal machine																								centrifugal machine	
mixer, grinder	1	1	1								1		1	1	1			1	1			1	10	mixer, grinder	
roll machine (except printingroll machine)																								roll machine (except printingroll machine)	
injection molding machine																								injection molding machine	
food manufacturing machine																								food manufacturing machine	
printing machine																								printing machine	
industrial robot																								industrial robot	
other general power machines	4	1	2	3	1	1	4	4	1		3	1	3	2	1	3	4	1		3		3	45	other general power machines	
felling machine																		1	1		1			3	felling machine
mobile logging machine																	1		2					3	mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine

crane	2	3	1		2	2	2		1	1		1				1		1			2		1	20	crane	
mobile crane	10	17	16	13	11	14	7	5	7	4	7	8	3	5	5	8	8	7	4	7	3	5	4	178	mobile crane	
derrick crane																										derrick crane
elevator, lift		1									1													2	elevator, lift	
cargo lifting appliance																										cargo lifting appliance
gondola																										gondola
lumberyard equipment, logging cableway																										lumberyard equipment, logging cableway
simple skyline yarding equipment																										simple skyline yarding equipment
other powered crane		1			1											1								3	other powered crane	
truck	54	53	47	33	22	26	27	21	29	19	22	17	7	17	11	16	11	15	19	10	14	11	10	511	truck	
forklift	2	2	2	1		1						1					1		1			1		12	forklift	
railway equipment	3					4	2			1				1					1			1		13	railway equipment	
conveyor	1																							1	conveyor	
loader		1				1																		2	loader	
straddle carrier																										straddle carrier
rough terrain hauler	8	2	4	5	3	6	3	1	2	1	5		1	2	2	1		1	2		3			52	rough terrain hauler	
other powered conveying machines	2	1	3	2	1	3	3	1	4		1			1						1			1	24	other powered conveying machines	
cars, bus, motorcycle	34	21	30	22	18	18	16	20	6	8	9	9	10	10	8	11	6	7	6	8	4	7	4	292	cars, bus, motorcycle	

human power machine			1																					1	human power machine
hand tool	1					1																		2	hand tool
ladder	4	4	1	1	3	2	3	1		2		4	1	3	1	1	1	1	2	1		1	1	38	ladder
slinging tool	7	7	7	4	2	4	3	7	5	6	3	2	3	1	2	2	4	1	2	2	2	1	1	78	slinging tool
other tools	1	3	4	1	5		7	3	1	2	1		1		1	1	1						3	35	other tools
other equipment, facilities	2					1	2	1	1		2			2				1						12	other equipment, facilities
scaffolding	14	9	3	6	10	6	4	4	3		2	11	3	6	3	2	2	3	5	5	3	2	1	107	scaffolding
timbering	4	2	5	2		3		1	1	1	1	2	3	7	1		2		1					36	timbering
stairs, landing stage	3	1	1			1									1		1					2	1	11	stairs, landing stage
opening	3	2		4	1	4	2	1	3		2			2	2				2	5		1	3	37	opening
roof, beam, haze, crossbeam, principal rafter	1		1	1		2		3		2			1	1			1		1	3	1			18	roof, beam, haze, crossbeam, principal rafter
working platform, boot board	4	1	1	1	5	1		1		3	1	2	3		3					1			2	29	working platform, boot board
passage	2	2	4	2	2				3		1	1			1				1	1	2		1	23	passage
building, establishment	31	20	19	17	13	12	10	12	12	11	5	5	7	10	4	13	7	8	8	2	6	7	6	245	building, establishment
other temporary buildings, establishments	6	4	5	5	6	5	4	4	1	3	4	3	3	2	1	3	3		3	2	2	1		70	other temporary buildings, establishments
explosive substance	1																							1	explosive substance
inflammable substance		3																					1	4	inflammable substance

inflammable gas				2			1			2				3	2									10	inflammable gas
harmful substance	1	4					1		1	1	1	3	2		2	3	1		1			2		23	harmful substance
radiation																									radiation
other hazards, harmful substances																							1	1	other hazards, harmful substances
metal material	9	2	2	2	2	1	3	3	3	1	1		2	1	1	2			3	3		1	1	43	metal material
lumber, bamboo		4	1	2		2	1		1	1	2			1								1		16	lumber, bamboo
stone, sand, substance	1	1		2			1							1										6	stone, sand, substance
other materials	2	1	2		1					1												1		8	other materials
load	4	3	3	1	2	1	3			3	1	2		1	2	1		1						28	load
machine/equipment as load								1						1			1					2		5	machine/equipment as load
natural ground, rock	56	42	41	39	38	33	21	20	29	24	21	15	15	14	26	16	10	14	15	12	17	11	12	541	natural ground, rock
standing tree	6	14	6	10	3	7	8	5	6	3	6	4	6	7	9	9	13	6	5	6	7	4	2	152	standing tree
water	3	5	3	4	5	7	2	5	2	10	3	1	55	5	3	4		1	3	5	3	3	4	136	water
abnormal environment	1	3	2		1	2		2		4		2			1		1						2	21	abnormal environment
high/cold temperature environment	5	7	7	9	3	2	4	4	2	5		6	1	4	3	1	3	2	3		2	2	4	79	high/cold temperature environment
other environments	4	4			4	4	5	12		1	1	1	1	1	2	2			1	2		3	2	50	other environments
other causal agent		1	2			1					1					3						1	2	11	other causal agent
no causal agent						1		2		1			4	3	3	1	3	4	2	2	2		1	29	no causal agent

unclassifiable	2	2		2		1		1					1	1	2		1	1					1	15	unclassifiable
total	405	350	299	262	234	230	207	200	160	168	150	140	167	153	131	138	107	100	123	111	90	102	102	4,129	total

Workers age of fatal accidents in civil engineering work 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	4	8	6	2	4	3	2	2	1	3	1	3	2	3	5	4	1	1	3		1			59	19 years old or less
20-29	41	34	32	34	27	19	19	18	19	8	9	14	5	10	9	4	7	6	14	7	11	6	7	360	20-29
30-39	39	25	38	27	24	26	21	31	24	25	17	22	20	23	14	20	10	18	9	16	10	10	7	476	30-39
40-49	76	67	46	39	36	36	30	24	17	28	18	21	34	23	18	30	19	13	22	13	10	23	23	666	40-49
50-59	115	88	95	78	87	81	69	69	50	50	47	39	54	44	30	32	25	23	25	27	15	17	24	1,184	50-59
60 years old or more	130	128	82	82	56	65	66	56	49	54	58	41	52	50	55	48	45	39	50	48	43	46	41	1,384	60 years old or more
total	405	350	299	262	234	230	207	200	160	168	150	140	167	153	131	138	107	100	123	111	90	102	102	4,129	total

Workers' number of workplace of fatal accidents in civil engineering work 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	135	136	117	106	94	95	87	102	72	67	61	67	62	66	53	50	49	35	57	46	42	54	37	1,690	9 workers or less
10-29	178	130	117	90	96	93	75	71	64	76	57	53	61	56	48	55	36	44	47	40	35	35	37	1,594	10-29
30-49	57	47	38	41	29	26	32	16	14	16	24	10	29	17	15	20	12	14	11	13	9	10	15	515	30-49
50-99	26	27	13	12	12	11	6	8	7	5	7	8	9	8	7	9	8	6	8	9	2	2	7	217	50-99
100-299	8	8	13	13	3	4	6	3	3	4	1	2	6	6	8	3	2	1		3	2	1	5	105	100-299
300 workers or more	1	2	1			1	1									1							1	8	300 workers or more
total	405	350	299	262	234	230	207	200	160	168	150	140	167	153	131	138	107	100	123	111	90	102	102	4,129	total

Month of fatal accidents in civil engineering work 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	33	39	21	28	16	22	16	17	11	16	12	14	14	8	14	11	11	6	15	9	7	11	9	360	January
February	39	37	16	25	31	24	15	18	26	13	22	17	11	27	4	16	9	9	11	11	11	11	13	416	February
March	40	33	37	30	23	19	20	16	9	13	10	10	62	11	6	15	8	10	7	13	9	9	12	422	March
April	38	21	27	17	16	6	19	15	9	5	4	4	7	11	9	8	6	10	4	4	3	11	4	258	April
May	26	19	19	14	18	8	15	8	10	10	8	7	7	9	11	6	8	6	11	6	6	8	3	243	May
June	26	27	23	10	15	16	14	13	16	8	11	7	7	16	7	8	7	3	8	12	7	6	13	280	June
July	25	30	25	25	29	22	13	22	14	20	13	15	4	15	13	17	10	9	15	12	8	4	5	365	July
August	37	31	32	25	21	17	15	15	7	21	13	12	8	7	15	14	11	6	7	6	5	8	5	338	August
September	39	25	19	15	14	26	10	21	17	14	12	11	9	7	11	4	11	15	10	10	3	8	9	320	September
October	26	27	24	25	16	32	19	17	17	16	17	16	14	14	11	16	13	9	13	14	13	8	14	391	October
November	30	35	17	20	19	22	28	22	9	17	13	13	12	13	17	9	10	6	12	10	8	7	7	356	November
December	46	26	39	28	16	16	23	16	15	15	15	14	12	15	13	14	3	11	10	4	10	11	8	380	December
total	405	350	299	262	234	230	207	200	160	168	150	140	167	153	131	138	107	100	123	111	90	102	102	4,129	total

Prefecture of fatal accidents in civil engineering work 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	37	29	22	22	15	23	19	15	7	11	16	8	5	16	14	13	8	11	13	9	9	6	11	339	Hokkaido
Aomori	3	6	6	6	4	2	4	4	3	2	1		3	3		3	1		1	2	1	2	2	59	Aomori
Iwate	4	5	5	6	8	2	5		2	5	5	1	29	3	1	5	5	3	3	6	5	2	6	116	Iwate
Miyagi	12	7	5	3	4	1	1	2	3	5	4	3	25	4	4	4	1	4	2	2	3	1	3	103	Miyagi
Akita	4	4	2	2	3	3	5	7	3	1	2	3	2	1	9	1	5	2	2	1		1		63	Akita

Yamagata	7	5	4	1		2	2	2		1	2	1		4	1	4		2	1	1	1	1	1	43	Yamagata
Fukushima	10	5	8	8	6	3	6	4	2	3	6	2	7	5	7	6	5	3	4		2	5	1	108	Fukushima
Ibaraki	7	4	8	11	6	4	5	1	3	4	3	3	2	7	4	1	5	6	4	5	2	2	1	98	Ibaraki
Tochigi	7	10	6	5	3	7	3	3	2		2	2	1	1			1				1	2	3	59	Tochigi
Gunma	9	2	8	2	5	4	5	3	3	1	3	2		1	1	3	1		3			2	4	62	Gunma
Saitama	8	9	7	8	7	10	6	4	4	4	2	4	3	1	2	3	4	1	5	3	3	2	3	103	Saitama
Chiba	6	8	9	9	8	13	9	11	8	3	6	5	2	3	2	5	5	3	4	3	1	4	3	130	Chiba
Tokyo	20	15	6	9	4	6	11	10	6	10	3	9	8	6	3	13	5	6	5	2	3	5	3	168	Tokyo
Kanagawa	13	14	8	5	10	14	8	7	4	4	7	3	5	4	2	2	3	2	3	4	2	6	6	136	Kanagawa
Niigata	11	7	7	7	8	7	14	4	4	8	6	6	4	6	5	2	1	1	1	4	3	3	1	120	Niigata
Toyama	4	1	9	2	3	2	4	3	4	1	1	5	7	2	2	1	2		3	4	2	1	4	67	Toyama
Ishikawa	4	3		2	3	4	4	1	2	3	3	1	1	2		1		2	4	1	3	1	1	46	Ishikawa
Fukui	5	3	4	4	2	4	2	2	4	3	2	2	1	1		3				2		2	2	48	Fukui
Yamanashi	5	7	7	7	4	5	1	4	4	7	3	1	3		3	5	2	3	2	1	1	3	1	79	Yamanashi
Nagano	9	12	13	5	5		5	2	1	4	3	6	4	4	4	5	1	2	3	2	3	1	4	98	Nagano
Gifu	8	12	3	7	12	3	4	5	1	3		8	1	1		1	4	2	4	2		2	3	86	Gifu
Shizuoka	7	10	8	12	10	6	4	8	8	7	7	3	4	5	4	5	7	5		5		4	2	131	Shizuoka
Aichi	13	9	13	13	11	14	6	10	5	8	5	5	4	2	8	6	3	2	6	4	4	4		155	Aichi
Mie	13	12	10	6	5	1	1	2	4	8	1	3	2	4	2	2	3	2	1	3	3	2	3	93	Mie
Shiga	3	6	3	2	2	1	2	1	3	2	2			2	1	1				1	1	1	1	35	Shiga
Kyoto	6	8	5	5	2		1	4		2	1	2		3	2	1	2	1	4	1	1	1		52	Kyoto
Osaka	7	9	7	5	6	4	8	9	7	8	3	3	2	1	2	2	1	1	6	3	1	5	3	103	Osaka
Hyogo	11	14	7	12	5	7	3	9	5		6	2	7	7	3	4	3	4	2	4	4	4	1	124	Hyogo
Nara	6	2	4	1	3	4	1	1	4	1	1	2	2	3	2	4	2	2	1	2	1	1	1	51	Nara

Wakayama	6	3	4	3	2	3		5	3	2	3		1	3	3			3	2		2	3	2	53	Wakayama
Tottori	11	3	3	2		2	1	4	1	1	3			2	2	1			2			2	1	41	Tottori
Shimane	8	2	6	2	7			2	2	1	3	1	2	2	3	1		1		1	1	1	1	47	Shimane
Okayama	7	9	5	6	2	5	6	2	3	2	3	2	1	7	7	2	1	1	2	1	1		1	76	Okayama
Hiroshima	10	12	11	3	3	8	5		4	4	3	5	6	3	4	3			3	5	2		1	95	Hiroshima
Yamaguchi	8	8	5	1	3	5	3	7	4		1	2	2	2	2	3	2	2	3	1	2	1		67	Yamaguchi
Tokushima	9	4	5	3	2	3	5	2	3	2	1	2	2			3			3	4	2	1	1	57	Tokushima
Kagawa	5	1	2	5	2	3	2	2	3	2	1	1		3					1	2		1	2	38	Kagawa
Ehime	5	10	5	7	6	4	3	3	2	2	3	3	2	1	1	1	3	2	3	5	2	1	1	75	Ehime
Kochi	9	8	7	7	2	7	6	2	2	1	1	2	2	6	4	2	2	4	1	1	3		2	81	Kochi
Fukuoka	16	8	10	10	12	5	5	10	6	12	6	4	3	8	4	3	6		3	3	1	3	2	140	Fukuoka
Saga	3	4	3	2	1	4	3	3		3		4			2		1	4	2	1		3	1	44	Saga
Nagasaki	7	6	5	2	5	3	4	4	2	4	5	1	3	2	1		1	3		1	2	1	4	66	Nagasaki
Kumamoto	8	7	6	1	10	6	1	4	3	3	3	8	1	3	3	4		2	1	3	3	2	2	84	Kumamoto
Oita	10	9	5	5	4	2	4		3	4	2	1	1	5	1	2	3	2	6	2	2	1	1	75	Oita
Miyazaki	4	6	7	5	5	3		3	4	1		2	2	1	3	2	4	3	1		3	2	2	63	Miyazaki
Kagoshima	15	10	5	8	3	8	9	3	8	4	4	6	2	3	3	3	3	2	2	2	1	2	1	107	Kagoshima
Okinawa	5	2	1	3	1	3	1	6	1	1	2	1	3			2	1	1	1	2	3	2	3	45	Okinawa
total	405	350	299	262	234	230	207	200	160	168	150	140	167	153	131	138	107	100	123	111	90	102	102	4,129	total

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

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