

Fatal and non-fatal accidents in river civil engineering work in Japan in 1999-2022

river civil engineering work industry Code No.030107

Type of accidents in river civil engineering work in 1999-2022

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	2022	total
fall from height	115	111	101	75	62	65	75	56	67	44	40	50	44	40	58	55	50	44	36	47	45	53	56	68	1,457
falling to same level	63	51	44	35	33	25	35	31	22	21	21	14	17	26	25	25	25	18	24	14	20	29	30	25	673
crash	29	9	19	12	12	9	9	8	6	7	9	4	8	10	9	10	9	5	6	7	5	4	13	4	223
struck by flying or falling object	69	72	48	46	40	30	43	40	41	29	31	23	22	25	21	30	18	16	18	23	21	19	24	25	774
collapse	31	15	28	19	10	16	20	21	12	14	14	11	9	9	6	11	10	12	6	8	7	12	13	12	326
crashed by	57	62	40	33	36	38	41	28	29	23	17	26	18	23	22	24	24	10	13	17	20	21	23	27	672
caught in/between	87	88	88	57	67	55	46	34	29	42	39	40	35	48	43	44	42	18	40	24	29	33	32	38	1,098
cut	31	24	19	13	14	11	12	15	7	13	7	12	8	5	13	11	15	7	8	10	13	18	13	8	307
injury to the sole of the foot	1	2	1	1	1			1		1	1		1			1	1		1	1			1		15
drown	1		1	2	1	2		2	1	2	1	1	3	1		3	1	1	2	1	1	1	2		30
contact to high/low-	1	2	3	4	2	4	1	2	4		1	3	4	1	1	2	2		3	6	5	3	5	6	65

temperature																									
contact to harmful substance	3		1	1				1	1		1			1		1		1	4			1	3	19	
electric shock			1	2			1		1			1							1					7	
explosion										1														1	
burst				1												1			1					3	
fire				1														1						2	
traffic accident (public road)	27	14	8	19	16	6	10	11	10	9	12	11	3	4	7	3	4	3	9	8	4	10	5	7	220
traffic accident (others)	2		1	1										2							1	2			9
reaction to motion/improper motion	20	15	22	12	9	4	10	7	12	8	7	7	8	4	3	6	4	9	10	9	12	8	5	9	220
others	3	1	1	1			2				3	1		2			2	3	2	1	1	1	16	3	43
unclassifiable		2									1				1							1			5
total	540	468	426	335	303	265	305	257	242	214	205	204	180	200	210	225	209	146	180	182	184	215	239	235	6,169

Causal agents (large) of fatal and non-fatal accidents in river civil engineering work in 1999-2022

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	2022	total
machine	118	112	90	76	69	60	72	61	48	50	51	56	42	59	53	57	52	32	34	39	48	62	42	56	1,439

crane, conveying machine	78	78	58	54	63	48	41	34	38	43	37	41	34	42	40	42	38	20	34	33	29	41	42	39	1,047
other equipment	49	36	38	31	31	21	30	29	25	15	21	23	23	17	26	21	21	14	16	10	20	21	29	26	593
temporary buildings, establishments	119	88	94	70	50	48	60	67	50	46	39	29	37	30	48	44	39	32	41	39	34	33	53	44	1,234
substance, material	82	84	80	49	43	40	43	32	31	29	29	16	19	21	14	30	25	14	17	18	16	17	22	25	796
load	16	7	3	12	8	10	6	5	5	3	4	6	1	6	5	2	4	2	8	7	7	4	8	7	146
environment	68	56	57	36	36	37	50	26	39	26	18	32	18	24	22	28	26	30	24	33	24	30	28	31	799
others	10	7	6	7	3	1	3	3	6	2	6	1	6	1	2	1	4	2	6	3	6	7	15	7	115
total	540	468	426	335	303	265	305	257	242	214	205	204	180	200	210	225	209	146	180	182	184	215	239	235	6,169

Causal agents (middle) of fatal and non-fatal accidents in river civil engineering work in 1999-2022

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	2022	total
engine	2										1				1										4
power transmission mechanism	1					1		1							2	1		1							7
woodworking machine	16	16	10	11	11	6	5	12	3	8	5	8	5	6	11	6	6	3	4	6	4	14	4	6	186

circular sawing machine			7		8		5	7	3	5	4	5	2	1	6	1	3	2	1	2	2	9		1	74
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine								1																	1
chain saw			2		2			3		2		3	3	5	1	5	3	1	1	4	1	3	2	4	45
other woodworking machines			1		1			1		1	1				4				2		1	2	2	1	17
leveling, transporting or loading machine			6		6		13	12	9	4	5	9	3	5	8	2	5	6	4	2	7	7	3	7	123
excavating machine			47		32		33	13	22	22	24	23	21	31	22	28	17	9	13	18	17	25	21	32	470
foundation work machine			8		2		5	6	3	1		1		1	1	4	5		1	3	1		1		43
hardening machine			4		2		1	3	2		1	3		1		1	3	2			5		2	2	32

pressure vessel																								
other pressure vessels																								
chemical facilities																								
gas welding equipment						1																	1	
arc welding equipment														1									1	
other welding equipment																								
kiln, caldron																								
industrial dryer																								
other kiln, caldron																								
transmission																								
electric power facilities																								
other electrical equipment									1										1				2	
human power cranes									1															1
human power hauling equipment				1						1		1			1		1		1		1	1		8

human power machine											1											1		2	
hand tool			7		5		4	7	3	2	4	2	2	2	1	4	5		5	4	2	2	4	6	71
ladder			15		8		9	10	4	6	3	6	5	6	13	10	8	5	5	3	6	10	8	12	152
slinging tool			4		7		8	8	9	2	8	8	10	5	6	5	4	5	2	3	6	6	4	3	113
other tools			8		8		4	2	5	3	5	3	4	2	3	1	2	3	3		4	2	7	3	72
other equipment, facilities			4		2		4	2	4		1	2	2	1	3		1	1				1	4	1	33
scaffolding			11		6		6	7	8	2	4	3	2	4	3	2	2	3	1	1	3	1		2	71
timbering			6		3		3	5	1	2	2	2	2		1	2	2	1	1	1		1	1		36
stairs, landing stage			3				2	3	3	2	1	2	1	3		6	3	3	1	1	5	1	3	1	44
opening			5						2				1		1	1		1	2	3		2	3		21
roof, beam, haze, crossbeam, principal rafter			2				1		1	1												1	1	1	8
working platform, boot board			3		9		7	7	4	7	7		2	2	6	4	8	2	2	5	3	2	11	3	94
passage			14		8		15	15	8	9	8	7	5	1	6	10	8	6	9	11	6	6	11	13	176
building, establishment			42		19		17	22	19	17	13	12	13	16	19	13	9	10	15	11	15	11	14	14	321
other temporary buildings,			8		5		9	8	4	6	4	3	11	4	12	6	7	6	10	6	2	8	9	10	138

environment					1																			1	
high/cold temperature environment			3		1			2	3			3	4	1	1	1	2		2	6	4	2	4	5	44
other environments			11		3		5	3	1	4	2	3	2	5	4	2	4	7	6	6	5	2	5	2	82
other causal agent			2					1					3	1		1	2		3			2	10	2	27
no causal agent			4		2		3	1	6	2	5	1	3		2		2	2	3	3	6	5	5	5	60
unclassifiable					1			1			1														3
total	540	468	426	335	303	265	305	257	242	214	205	204	180	200	210	225	209	146	180	182	184	215	239	235	6,169

Workers age of fatal and non-fatal accidents in river civil engineering work in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less	13	8	9	8	3	7	5	2	4	1	2	1	2	3	4	3	4	3	1	2	2	2	1	6	96
20-29	50	52	75	46	35	34	33	26	24	12	22	24	15	15	13	17	11	10	14	23	15	16	24	25	631
30-39	46	44	38	34	37	37	34	42	35	31	29	30	29	26	37	33	23	24	18	19	21	25	34	30	756
40-49	102	78	59	50	58	45	45	37	37	41	36	39	34	48	38	38	54	22	40	32	39	29	36	42	1,079
50-59	149	140	104	92	97	82	100	88	75	58	61	41	52	51	58	54	48	31	47	39	29	45	55	39	1,635
60 years old or more	180	146	141	105	73	60	88	62	67	71	55	69	48	57	60	80	69	56	60	67	78	98	89	93	1,972
total	540	468	426	335	303	265	305	257	242	214	205	204	180	200	210	225	209	146	180	182	184	215	239	235	6,169

Workers' number of workplace of fatal and non-fatal accidents in river civil engineering work in 1999-2022

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	2022	total
9 workers or less	232	208	201	156	143	122	171	128	125	118	105	113	89	100	119	107	109	82	96	87	105	85	109	104	3,014
10-29	231	195	173	140	134	109	103	102	89	73	79	72	68	75	73	83	73	43	53	62	59	99	97	91	2,376
30-49	55	41	31	26	16	24	18	19	19	19	16	16	15	17	9	24	18	15	26	21	12	21	15	25	518
50-99	15	19	17	9	10	9	10	7	8	3	4	3	7	7	9	9	7	4	4	11	5	6	8	10	201
100-299	7	5	4	4		1	3	1	1	1	1		1	1		2	2	2	1	1	3	4	10	5	60
300 workers or more																									
total	540	468	426	335	303	265	305	257	242	214	205	204	180	200	210	225	209	146	180	182	184	215	239	235	6,169

Month of fatal and non-fatal accidents in river civil engineering work in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	46	49	44	49	36	40	24	31	27	36	30	31	20	18	28	23	22	15	21	26	20	20	23	30	709
February	66	56	52	61	46	42	47	44	39	32	28	20	14	29	24	26	24	14	29	18	23	23	37	31	825
March	55	76	54	26	45	46	30	38	28	30	28	34	18	27	29	20	31	24	18	21	23	23	22	24	770
April	48	37	40	24	21	16	20	18	20	18	12	14	12	19	15	14	13	8	11	13	14	20	8	20	455
May	41	31	30	19	24	12	31	28	14	14	11	15	10	15	14	22	12	13	7	10	10	12	17	13	425
June	45	35	26	16	10	13	22	11	18	18	6	12	11	15	10	14	12	9	9	11	9	12	13	18	375

July	40	32	23	18	23	19	15	12	22	11	9	10	11	9	12	15	7	11	18	16	7	14	29	10	393
August	36	33	23	21	15	10	18	13	17	8	7	11	21	15	15	13	14	12	13	14	7	20	23	10	389
September	28	19	18	16	13	16	20	10	13	6	17	9	9	7	11	16	14	9	7	15	13	12	14	23	335
October	43	30	34	19	15	12	30	13	11	16	11	11	13	20	16	16	20	8	11	10	18	16	15	12	420
November	48	40	39	30	20	16	29	21	19	11	28	16	16	13	20	26	20	9	14	17	17	18	22	17	526
December	44	30	43	36	35	23	19	18	14	14	18	21	25	13	16	20	20	14	22	11	23	25	16	27	547
total	540	468	426	335	303	265	305	257	242	214	205	204	180	200	210	225	209	146	180	182	184	215	239	235	6,169

Prefecture of fatal and non-fatal accidents in river civil engineering work in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	49	30	23		34		23	20	12	19	21	19	8	9	12	16	14	8	15	17	13	20	16	8	406
Aomori	8	5	11		2		2	5	1	3	3		8	8		2	2	4	3	2	2	1	2	1	75
Iwate	6	15	6		13		8	2	3	2	3	6	4	5	3	9	4	4	10	13	9	7	7	6	145
Miyagi	2	7	1		13		4	4	7	5	4	1	6	3	9	7		10	16	6	9	4	9	10	137
Akita	10		13		3		5	6	1	4	6	9	2	7	7	3	9		3	5	5	5	2	5	110
Yamagata	6	6	6		6		5	2	3	3	1	1	1	2	4	2	4	4	2	7	3	6	8	10	92
Fukushima	15	10	2		6		4		2	6	2	4	2	9	5	5	12	5	3	5	5	7	11	15	135
Ibaraki	8	5	3		6		5	1	3	1	2		5	5		3	6	3	2	4		1	3	4	70
Tochigi	9	10	7		4		2		2	1	2	4	2	6	2	1			1	3		5	4	10	75
Gunma	16	4	9		7		2	2	1	5	3	3	3		3	2	4	1	2	4	4	3	4	1	83

Saitama	8	6	8		4		6	6	2	6	12	8	9	1	5	11	8	2	7	2	2	5	3	4	125
Chiba	5	8	8		7		3	9	6	5	4	4	1	3	4	4	3		4	4	2	2	1	2	89
Tokyo	9	7	7		7		8	10	7	5	10	6	4	4	5	3	2	4	5	6	3	7	10	1	130
Kanagawa	9	8	11		3		5	8	3	4	5	5	2	8		3	5	4	2	4	1	2	6	1	99
Niigata	24	15	12		9		22	14	6	8	8	4	6	11	4	14	8	5	2	7	3	4	3	5	194
Toyama	7	11	7		4		8	5	5	8	9	6	1	2	6	7	3	3		2	2	3	4	3	106
Ishikawa	2	2	2		7		3	1	1	5	3	2	3		2	1	5	3	1	2	1	1	1	4	52
Fukui	6	12	10		7		3	6	3		5	2	8	4	3	1	5	1	2	2	4			3	87
Yamanashi	5	8	8		2		2	1	2	3		3	3	2	4	3	1		1		2	1	1	4	56
Nagano	22	15	16		6		9	11	5	11	2	6	2	4	2	4	8	4	7	6	5	11	17	15	188
Gifu	11	23	22		8		9	6	9	6	6	9	5	7	5	5	9	1		4	3	4	5	4	161
Shizuoka	24	18	10		11		7	7	4	6	8	1	5	8	6	8	2	7	7	2	4	7	8	4	164
Aichi	12	24	17		5		9	5	8	13	11	6	6	7	4	6	3	5	4	9	5	5	11	8	183
Mie	11	9	10		9		5	5	7		4	5	1	3	7	5	6	1	4	6	5	3	3	2	111
Shiga	5	3	6		8			5	3	1	2		2		1	2	1	2	1		1	2	2	3	50
Kyoto	17	6	9		3		8	10	6	3	2	5	1	3	1	6	8	4	3	5	6	3	3	2	114
Osaka	4	5	10		7		4	3	11	6	3		1	1	2	2	3	1	1	4	2	2	2	3	77
Hyogo	19	21	10		6		19	11	14	8	5	13	5	9	6	3	3	2	5	1	11	2	5	4	182
Nara	6	5	3		3		1	3	2	1	1	4	3	1	7	3		1	2	4	3	2	1	3	59
Wakayama	13	7	9		6		4	3	5	1	6	3	1	10	7	6	9	4	2		3		1	7	107
Tottori	7	2	3		5		1	3	3		1	2	2	4	2	3	1	2	4		1	3		3	52

Shimane	4	7	8		6		2	2	4	3	1	6	1	1	1	2	4	2		1	2		4	2	63
Okayama	23	23	8		7		10	4	7	1	2	4	2	5	6	7	2			5	3	7	4	9	139
Hiroshima	21	27	15		6		3	14	9	4	3	6	10	5	3	5	2	2	1	3	8	11	8	7	173
Yamaguchi	4	11	13		6		6	7	5	2	2	6	6	3	6	5	4	2	5		8	4	8	2	115
Tokushima	10	7	6		5		17	3	6	5	5	5			2	3	5	2	4	1		2	4	1	93
Kagawa	2	3			1		5	1		1	4	1	2	4	4	2	3	6	2	4	4	1	1	4	55
Ehime	18	10	19		6		11	6	4	3	3	1	3	4		5	1		3	1	5	4	1	4	112
Kochi	23	18	12		11		13	5	10	4	2	2	4		8	8	6	9	5	2	7	7	6	4	166
Fukuoka	14	14	21		14		13	15	15	9	8	7	15	7	16	10	13	8	8	9	10	17	18	7	268
Saga	5	5	5		4		6	5	6	4	3	6	4	3	10	6	7	2	5	4	4	5	4	5	108
Nagasaki	8	13	5				4	2		2	3	2	2	3	1	6		1	1	1			2	1	57
Kumamoto	11	5	17		3		2	3	9	5	3	7	7	6	1	6	5	5	6	4	3	8	7	9	132
Oita	19	4	8		3		9	5	2	7	2	1	1	1	20	8	4	4	2	4	4	3	4	9	124
Miyazaki	6	3	2		1		4	3	4	5		2	4	2		1	3	4	5	3	2	4	4	2	64
Kagoshima	16	10	8		8		4	8	14	8	10	7	7	9	4	1	1	4	11	4	5	14	10	14	177
Okinawa	1	1			1					2				1			1		1				1		9
total	540	468	426	335	303	265	305	257	242	214	205	204	180	200	210	225	209	146	180	182	184	215	239	235	6,169

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

drown		1	1	2	1	2		1	1	2	2	1	3		1	1	1	1	1		1		2		25
contact to high/low-temperature			1																						1
contact to harmful substance									1														1		2
electric shock							1																		1
explosion																									
burst										1															1
fire																									
traffic accident (public road)	3	4	1	5		1		3	1		2	3				1			2			2			28
traffic accident (others)				2										1							1	1			5
reaction to motion/improper motion																									
others		1														1					1			1	4
unclassifiable																									
total	28	17	14	18	13	20	17	9	10	10	13	13	11	12	6	10	12	8	7	8	11	8	10	12	297

Causal agents (large) of fatal accidents in river civil engineering work in 1999-2022

human power																								
machine																								
hand tool																								
ladder	2										1												3	
slinging tool	1		1								1	1								1			5	
other tools					1		1			1													3	
other equipment, facilities																								
scaffolding	2																						2	
timbering												1	1									1	3	
stairs, landing stage																1						1	2	
opening									1														1	
roof, beam, haze, crossbeam, principal rafter																								
working platform, boot board						1																	1	
passage																						1	1	
building, establishment	3		1	1			2	1	1		1			2			1	1	2	1		2	1	20
other temporary buildings,						1		1								1	1							4

environment																									
high/cold temperature environment		1	1																						2
other environments								1											1			1	1	4	
other causal agent																									
no causal agent																1				1				2	
unclassifiable																									
total	28	17	14	18	13	20	17	9	10	10	13	13	11	12	6	10	12	8	7	8	11	8	10	12	297

Workers age of fatal accidents in river civil engineering work in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less		1																1						1	3
20-29	1	1		3	3	2	2		1			1		1		1				1	3				20
30-39	2		4		1		1	1	2	2	1	3		1			2	1		1				1	23
40-49	3	1	2	4	2	4	3			1	1	2	4	1			1	1	3		2	3	1	4	43
50-59	10	5	4	4	5	9	5	4	2	4	4	4	2	6	2	3	1	2	1	4		2	6		89
60 years old or more	12	9	4	7	2	5	6	4	5	3	7	3	5	3	4	6	8	3	3	2	6	3	3	6	119
total	28	17	14	18	13	20	17	9	10	10	13	13	11	12	6	10	12	8	7	8	11	8	10	12	297

Workers' number of workplace of fatal accidents in river civil engineering work in 1999-2022

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	2022	total
9 workers or less	6	6	5	5	5	4	9	5	6	2	4	4	5	3	4	3	4	3	3	3	5	3	3	6	106
10-29	15	7	6	10	7	11	4	4	3	5	7	7	6	9	2	4	5	3	3	2	4	5	5	4	138
30-49	6	2	2	3		3	3				1					2	2	2	1	1	2		1	2	33
50-99		2	1		1	2	1		1	3	1	2				1	1			1					17
100-299	1																			1			1		3
300 workers or more																									
total	28	17	14	18	13	20	17	9	10	10	13	13	11	12	6	10	12	8	7	8	11	8	10	12	297

Month of fatal accidents in river civil engineering work in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	6	1		6		2	1	1	1	2	2	3	1				1			1	1	3		2	34
February	3	1	2	3		3	1	3	5	1		1	1	2	1	4	1		3	1	3	2	3	2	46
March	1	4	2	2	1	3	2	3	1	1	2	1	3	1	1		3	3		2	1		1		38
April	1	2	1	2	1		2	1			1	2		2		1							1		17
May	2			1	5		4		2			1			1		1	2				1			20
June	2	1	1			2		1						1		1	1		1		2		1	1	15

July			3		3	2				2		3	1	2		2		1	1	1		1			22
August	3	2			1	2	3			1	1		1		1		1		1					2	19
September	2	2				1					1		1	1			2	1	1	1			1	2	16
October	1	2	3	1		2	1			2	1	1		1			1			1	1			1	19
November	2	2	1		1	1	2			1	2	1					1			1	1	1	2		19
December	5		1	3	1	2	1		1		3		3	2	2	2		1			2		1	2	32
total	28	17	14	18	13	20	17	9	10	10	13	13	11	12	6	10	12	8	7	8	11	8	10	12	297

Prefecture of fatal accidents in river civil engineering work in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	3	1		2		2					3	1		1	1	2	2	1	2	2	1	1	2		27
Aomori						1		1															1		3
Iwate	1		1				2				1		1				1				1	1			9
Miyagi		1	1		1	1	1		1			1	3		1	1		1	1		1				15
Akita				1	1							1					1								4
Yamagata							1													1		1			3
Fukushima	2	1				1				2				1		1								1	9
Ibaraki	2	1		4														1							8
Tochigi	1		1		1									1									1	3	8
Gunma					1	1					1					1							1		5

Shimane												1												1	
Okayama	1	1																					1	3	
Hiroshima	1		1									1		1						1				5	
Yamaguchi	1					1		1																3	
Tokushima				1		1																1		3	
Kagawa	2					1		1				1												5	
Ehime	1	1						1							1					1			1	6	
Kochi	1						2																	3	
Fukuoka	1	1	2	1			1	1		1			1	2			2		1					14	
Saga			1		1					1								1				1		5	
Nagasaki														1										1	
Kumamoto	1					2				1			1	1		1				1		1		9	
Oita		1		1	1									1			1							5	
Miyazaki	1		1																			1	1	4	
Kagoshima			1								3		1				1							6	
Okinawa																									
total	28	17	14	18	13	20	17	9	10	10	13	13	11	12	6	10	12	8	7	8	11	8	10	12	297

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

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