Industrial accidents in river civil engineering work in Japan in 1999-2020

river civil engineering work industry Code No.030107

Type of accidents in river civil engineering work in 1999-2020

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
fall from height	115	111	101	75	62	65	75	56	67	44	40	50	44	40	58	55	50	44	36	47	45	53
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
crash	29	9	19	12	12	9	9	8	6	7	9	4	8	10	9	10	9	5	6	7	5	4
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
collapse	31	15	28	19	10	16	20	21	12	14	14	11	9	9	6	11	10	12	6	8	7	12
crashed by	57	62	40	33	36	38	41	28	29	23	17	26	18	23	22	24	24	10	13	17	20	21
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
cut	31	24	19	13	14	11	12	15	7	13	7	12	8	5	13	11	15	7	8	10	13	18
injury to the sole of the foot	1	2	1	1	1	-	0	1	0	1	1	0	1	0	0	1	1	0	1	1	0	0
drown	1	0	1	2	1	2	0	2	1	2	1	1	3	1	0	3	1	1	2	1	1	1
contact to high/low-temperature	1	2	3	4	2	4	1	2	4	0	1	3	4	1	1	2	2	0	3	6	5	3
contact to harmful substance	3	0	1	1	0	-	0	1	1	0	1	0	0	0	1	0	1	0	1	4	0	0
electric shock	0	0	1	2	0	-	1	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0
explosion	0	0	0	-	0	-	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
burst	0	0	0	1	0	-	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
fire	0	0	0	1	0	-	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
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
traffic accident (others)	2	0	1	1	0	-	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	2
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
others	3	1	1	1	0	-	2	0	0	0	3	1	0	2	0	0	2	3	2	1	1	1

unclassifiable	0	2	0	-	0	-	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1
total	540	468	426	335	303	265	305	257	242	214	205	204	180	200	210	225	209	146	180	182	184	215

Causal agents (middle) of industrial accidents in river civil engineering work in 1999-2020

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine	2	0	0	-	0	-	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
power transmission mechanism	1	0	0	-	0	1	0	1	0	0	0	0	0	0	2	1	0	1	0	0	0	0
woodworking machine	16	16	10	11	11	6	5	12	3	8	5	8	5	6	11	6	6	3	4	6	4	14
construction machine	80	87	72	55	49	46	59	39	38	33	39	40	27	47	37	41	35	22	24	26	35	35
metal manufacturing machine	5	4	2	3	2	-	1	2	1	3	0	2	1	0	0	3	1	0	1	1	0	2
general machine	14	5	6	7	7	7	7	7	6	6	6	6	9	6	2	6	10	5	5	6	8	9
mobile silviculture machine																	0	1	0	0	1	2
crane	17	32	23	12	24	19	14	12	8	18	9	12	13	15	11	19	14	11	15	10	9	14
conveying machine	39	37	31	24	25	23	21	12	21	16	17	18	16	23	26	20	22	8	13	15	17	19
vehicle	22	9	4	18	14	6	6	10	9	9	11	11	5	4	3	3	2	1	6	8	3	8
pressure vessel	0	0	0	2	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	0	0	-	0	-	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
kiln, caldron	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric equipment	2	0	0	-	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
human power machine, tools	14	10	7	12	6	6	4	7	3	3	4	4	2	3	1	4	6	0	6	4	3	2
tools	31	22	27	16	23	13	21	20	18	11	16	17	19	13	22	16	14	13	10	6	16	18
other equipments, facilities	2	4	4	1	2	1	4	2	4	0	1	2	2	1	3	0	1	1	0	0	0	1
temporary buildings,	119	88	94	70	50	48	60	67	50	46	39	29	37	30	48	44	39	32	41	39	34	33

establishments																						
hazards, harmful substances	3	2	1	2	0	1	0	0	0	1	1	0	0	0	0	0	1	0	3	2	0	0
materials	79	82	79	47	43	39	43	32	31	28	28	16	19	21	14	30	24	14	14	16	16	17
load	16	7	3	12	8	10	6	5	5	3	4	6	1	6	5	2	4	2	8	7	7	4
natural environment	68	56	57	36	36	37	50	26	39	26	18	32	18	24	22	28	26	30	24	33	24	30
other causal agent	1	1	2	1	0	-	0	1	0	0	0	0	3	1	0	1	2	0	3	0	0	2
no causal agent	9	2	4	5	2	1	3	1	6	2	5	1	3	0	2	0	2	2	3	3	6	5
unclassifiable	0	4	0	1	1	-	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
total	540	468	426	335	303	265	305	257	242	214	205	204	180	200	210	225	209	146	180	182	184	215

Causal agents (small) of industrial accidents in river civil engineering work in 1999-2020

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine			0		0		0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
power transmission mechanism			0		0		0	1	0	0	0	0	0	0	2	1	0	1	0	0	0	0
circular sawing machine			7		8		5	7	3	5	4	5	2	1	6	1	3	2	1	2	2	9
band sawing machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wood planer machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hollow chisel mortiser, wood borer			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chamfering machine, router, woodworking milling machine			0		0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw			2		2		0	3	0	2	0	3	3	5	1	5	3	1	1	4	1	3
other woodworking machines			1		1		0	1	0	1	1	0	0	0	4	0	0	0	2	0	1	2
leveling, transporting or loading machine			6		6		13	12	9	4	5	9	3	5	8	2	5	6	4	2	7	7
excavating machine			47		32		33	13	22	22	24	23	21	31	22	28	17	9	13	18	17	25

foundation work machine			8		2		5	6	3	1	0	1	0	1	1	4	5	0	1	3	1	0
hardening machine			4		2		1	3	2	0	1	3	0	1	0	1	3	2	0	0	5	0
demolition machine			3		1		6	0	1	0	0	0	0	2	1	2	3	1	3	0	2	0
vehicle for high lift work			0		0		0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0
other construction machines			4		6		1	5	0	6	9	4	3	7	5	4	2	4	3	2	2	3
lathe			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drill press, milling machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
grinding machine, buffing machine			2		1		1	2	1	2	0	1	1	0	0	3	1	0	1	0	0	1
power press			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
forging pressure hammer			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
shearing machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other metal manufacturing machines			0		1		0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1
centrifugal machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mixer, grinder			0		0		0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1
roll machine (except printingroll machine)			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
injection molding machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
food manufacturing machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
printing machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial robot			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other general power machines			6		7		7	6	5	6	5	6	9	6	2	6	10	5	5	6	8	8
felling machine																	0	1	0	0	0	1
mobile logging machine																	0	0	0	0	0	1
skyline yarding																						

machine																	0	0	0	0	0	0
other mobile silviculture machine																	0	0	0	0	1	0
crane			3		1		1	2	0	2	3	1	1	2	0	1	1	0	0	1	2	0
mobile crane			20		22		13	9	8	15	6	10	12	13	11	18	12	11	13	9	7	14
derrick crane			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
elevator, lift			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cargo lifting appliance			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gondola			0		1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lumberyard equipment, logging cableway			0		0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
simple skyline yarding equipment																	0	0	0	0	0	0
other powered crane			0		0		0	0	0	1	0	1	0	0	0	0	1	0	2	0	0	0
truck			23		19		17	10	16	14	10	16	14	18	20	18	19	7	9	15	16	16
forklift			0		1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
railway equipment			1		0		0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
conveyor			1		0		1	0	0	0	0	1	0	2	0	0	0	0	0	0	0	1
loader			0		1		0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0
straddle carrier			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rough terrain hauler			5		3		1	2	4	1	4	1	0	2	1	1	2	0	2	0	1	1
other powered conveying machines			1		1		2	0	0	0	2	0	1	1	5	1	1	0	1	0	0	0
cars, bus, motorcycle			3		12		6	9	9	8	9	10	4	3	3	3	2	1	6	7	2	6
railway vehicle			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
other vehicles			1		2		0	1	0	1	2	1	1	1	0	0	0	0	0	1	1	1
boiler			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pressure vessel			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other pressure vessels			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas welding			0		0		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

equipment																					
arc welding equipment			0		0		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
other welding equipment			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial dryer			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other kiln, caldron			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric power facilities			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other electrical equipment			0		0		0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
human power cranes			0		0		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
human power hauling equipment			0		1		0	0	0	0	0	1	0	1	0	0	1	0	1	0	1	0
human power machine			0		0		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
hand tool			7		5		4	7	3	2	4	2	2	2	1	4	5	0	5	4	2	2
ladder			15		8		9	10	4	6	3	6	5	6	13	10	8	5	5	3	6	10
slinging tool			4		7		8	8	9	2	8	8	10	5	6	5	4	5	2	3	6	6
other tools			8		8		4	2	5	3	5	3	4	2	3	1	2	3	3	0	4	2
other equipment, facilities			4		2		4	2	4	0	1	2	2	1	3	0	1	1	0	0	0	1
scaffolding			11		6		6	7	8	2	4	3	2	4	3	2	2	3	1	1	3	1
timbering			6		3		3	5	1	2	2	2	2	0	1	2	2	1	1	1	0	1
stairs, landing stage			3		0		2	3	3	2	1	2	1	3	0	6	3	3	1	1	5	1
opening			5		0		0	0	2	0	0	0	1	0	1	1	0	1	2	3	0	2
roof, beam, haze, crossbeam, principal rafter			2		0		1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1
working platform, boot board			3		9		7	7	4	7	7	0	2	2	6	4	8	2	2	5	3	2
passage			14		8		15	15	8	9	8	7	5	1	6	10	8	6	9	11	6	6
building, establishment			42		19		17	22	19	17	13	12	13	16	19	13	9	10	15	11	15	11

other temporary buildings, establishments			8		5		9	8	4	6	4	3	11	4	12	6	7	6	10	6	2	8
explosive substance			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable substance			1		0		0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0
inflammable gas			0		0		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
harmful substance			0		0		0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
radiation			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances			0		0		0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0
metal material			19		16		16	13	13	11	17	7	11	9	5	10	10	5	4	7	6	8
lumber, bamboo			9		3		3	4	3	5	3	0	0	3	3	2	1	3	0	1	3	0
stone, sand, substance			25		14		17	8	7	6	4	3	7	3	2	12	9	2	7	5	3	6
other materials			26		10		7	7	8	6	4	6	1	6	4	6	4	4	3	3	4	3
load			2		6		4	4	5	2	3	6	1	6	4	2	3	2	8	7	4	3
machine/equipment as load			1		2		2	1	0	1	1	0	0	0	1	0	1	0	0	0	3	1
natural ground, rock			33		22		36	17	30	17	11	17	8	14	15	16	15	13	13	12	10	20
standing tree			9		7		9	4	4	4	4	8	1	3	2	6	5	8	1	8	4	5
water			1		2		0	0	1	1	1	1	3	1	0	3	0	2	2	1	1	1
abnormal environment			0		1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
high/cold temperature environment			3		1		0	2	3	0	0	3	4	1	1	1	2	0	2	6	4	2
other environments			11		3		5	3	1	4	2	3	2	5	4	2	4	7	6	6	5	2
other causal agent			2		0		0	1	0	0	0	0	3	1	0	1	2	0	3	0	0	2
no causal agent			4		2		3	1	6	2	5	1	3	0	2	0	2	2	3	3	6	5
unclassifiable			0		1		0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
total			426		303		305	257	242	214	205	204	180	200	210	225	209	146	180	182	184	215

Workers age of industrial accidents in river civil engineering work in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020

19 years old or less	13	8	9	8	3	7	5	2	4	1	2	1	2	3	4	3	4	3	1	2	2	2
20-29	50	52	75	46	35	34	33	26	24	12	22	24	15	15	13	17	11	10	14	23	15	16
30-39	46	44	38	34	37	37	34	42	35	31	29	30	29	26	37	33	23	24	18	19	21	25
40-49	102	78	59	50	58	45	45	37	37	41	36	39	34	48	38	38	54	22	40	32	39	29
50-59	149	140	104	92	97	82	100	88	75	58	61	41	52	51	58	54	48	31	47	39	29	45
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
total	540	468	426	335	303	265	305	257	242	214	205	204	180	200	210	225	209	146	180	182	184	215

Workers' number of workplace of industrial accidents in river civil engineering work in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	232	208	201	156	143	122	171	128	125	118	105	113	89	100	119	107	109	82	96	87	105	85
10-29	231	195	173	140	134	109	103	102	89	73	79	72	68	75	73	83	73	43	53	62	59	99
30-49	55	41	31	26	16	24	18	19	19	19	16	16	15	17	9	24	18	15	26	21	12	21
50-99	15	19	17	9	10	9	10	7	8	3	4	3	7	7	9	9	7	4	4	11	5	6
100-299	7	5	4	4	0	1	3	1	1	1	1	0	1	1	0	2	2	2	1	1	3	4
300 workers or more	0	0	0	—	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	540	468	426	335	303	265	305	257	242	214	205	204	180	200	210	225	209	146	180	182	184	215

Month of industrial accidents in river civil engineering work in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	46	49	44	49	36	40	24	31	27	36	30	31	20	18	28	23	22	15	21	26	20	20
February	66	56	52	61	46	42	47	44	39	32	28	20	14	29	24	26	24	14	29	18	23	23
March	55	76	54	26	45	46	30	38	28	30	28	34	18	27	29	20	31	24	18	21	23	23
April	48	37	40	24	21	16	20	18	20	18	12	14	12	19	15	14	13	8	11	13	14	20
May	41	31	30	19	24	12	31	28	14	14	11	15	10	15	14	22	12	13	7	10	10	12
June	45	35	26	16	10	13	22	11	18	18	6	12	11	15	10	14	12	9	9	11	9	12
July	40	32	23	18	23	19	15	12	22	11	9	10	11	9	12	15	7	11	18	16	7	14
August	36	33	23	21	15	10	18	13	17	8	7	11	21	15	15	13	14	12	13	14	7	20
September	28	19	18	16	13	16	20	10	13	6	17	9	9	7	11	16	14	9	7	15	13	12
October	43	30	34	19	15	12	30	13	11	16	11	11	13	20	16	16	20	8	11	10	18	16
November	48	40	39	30	20	16	29	21	19	11	28	16	16	13	20	26	20	9	14	17	17	18
December	44	30	43	36	35	23	19	18	14	14	18	21	25	13	16	20	20	14	22	11	23	25

total	540	468	426	335	303	265	305	257	242	214	205	204	180	200	210	225	209	146	180	182	184	215

Prefecture of industrial accidents in river civil engineering work in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	49	30	23		34		23	20	12	19	21	19	8	9	12	16	14	8	15	17	13	20
Aomori	8	5	11		2		2	5	1	3	3	0	8	8	0	2	2	4	3	2	2	1
Iwate	6	15	6		13		8	2	3	2	3	6	4	5	3	9	4	4	10	13	9	7
Miyagi	2	7	1		13		4	4	7	5	4	1	6	3	9	7	0	10	16	6	9	4
Akita	10	0	13		3		5	6	1	4	6	9	2	7	7	3	9	0	3	5	5	5
Yamagata	6	6	6		6		5	2	3	3	1	1	1	2	4	2	4	4	2	7	3	6
Fukushima	15	10	2		6		4	0	2	6	2	4	2	9	5	5	12	5	3	5	5	7
Ibaraki	8	5	3		6		5	1	3	1	2	0	5	5	0	3	6	3	2	4	0	1
Tochigi	9	10	7		4		2	0	2	1	2	4	2	6	2	1	0	0	1	3	0	5
Gunma	16	4	9		7		2	2	1	5	3	3	3	0	3	2	4	1	2	4	4	3
Saitama	8	6	8		4		6	6	2	6	12	8	9	1	5	11	8	2	7	2	2	5
Chiba	5	8	8		7		3	9	6	5	4	4	1	3	4	4	3	0	4	4	2	2
Tokyo	9	7	7		7		8	10	7	5	10	6	4	4	5	3	2	4	5	6	3	7
Kanagawa	9	8	11		3		5	8	3	4	5	5	2	8	0	3	5	4	2	4	1	2
Niigata	24	15	12		9		22	14	6	8	8	4	6	11	4	14	8	5	2	7	3	4
Toyama	7	11	7		4		8	5	5	8	9	6	1	2	6	7	3	3	0	2	2	3
Ishikawa	2	2	2		7		3	1	1	5	3	2	3	0	2	1	5	3	1	2	1	1
Fukui	6	12	10		7		3	6	3	0	5	2	8	4	3	1	5	1	2	2	4	0
Yamanashi	5	8	8		2		2	1	2	3	0	3	3	2	4	3	1	0	1	0	2	1
Nagano	22	15	16		6		9	11	5	11	2	6	2	4	2	4	8	4	7	6	5	11
Gifu	11	23	22		8		9	6	9	6	6	9	5	7	5	5	9	1	0	4	3	4
Shizuoka	24	18	10		11		7	7	4	6	8	1	5	8	6	8	2	7	7	2	4	7
Aichi	12	24	17		5		9	5	8	13	11	6	6	7	4	6	3	5	4	9	5	5
Mie	11	9	10		9		5	5	7	0	4	5	1	3	7	5	6	1	4	6	5	3
Shiga	5	3	6		8		0	5	3	1	2	0	2	0	1	2	1	2	1	0	1	2
Kyoto	17	6	9		3		8	10	6	3	2	5	1	3	1	6	8	4	3	5	6	3
Osaka	4	5	10		7		4	3	11	6	3	0	1	1	2	2	3	1	1	4	2	2
Hyogo	19	21	10		6		19	11	14	8	5	13	5	9	6	3	3	2	5	1	11	2
Nara	6	5	3		3		1	3	2	1	1	4	3	1	7	3	0	1	2	4	3	2
Wakayama	13	7	9		6		4	3	5	1	6	3	1	10	7	6	9	4	2	0	3	0
Tottori	7	2	3		5		1	3	3	0	1	2	2	4	2	3	1	2	4	0	1	3

Shimane	4	7	8		6		2	2	4	3	1	6	1	1	1	2	4	2	0	1	2	0
Okayama	23	23	8		7		10	4	7	1	2	4	2	5	6	7	2	0	0	5	3	7
Hiroshima	21	27	15		6		3	14	9	4	3	6	10	5	3	5	2	2	1	3	8	11
Yamaguchi	4	11	13		6		6	7	5	2	2	6	6	3	6	5	4	2	5	0	8	4
Tokushima	10	7	6		5		17	3	6	5	5	5	0	0	2	3	5	2	4	1	0	2
Kagawa	2	3	0		1		5	1	0	1	4	1	2	4	4	2	3	6	2	4	4	1
Ehime	18	10	19		6		11	6	4	3	3	1	3	4	0	5	1	0	3	1	5	4
Kochi	23	18	12		11		13	5	10	4	2	2	4	0	8	8	6	9	5	2	7	7
Fukuoka	14	14	21		14		13	15	15	9	8	7	15	7	16	10	13	8	8	9	10	17
Saga	5	5	5		4		6	5	6	4	3	6	4	3	10	6	7	2	5	4	4	5
Nagasaki	8	13	5		0		4	2	0	2	3	2	2	3	1	6	0	1	1	1	0	0
Kumamoto	11	5	17		3		2	3	9	5	3	7	7	6	1	6	5	5	6	4	3	8
Oita	19	4	8		3		9	5	2	7	2	1	1	1	20	8	4	4	2	4	4	3
Miyazaki	6	3	2		1		4	3	4	5	0	2	4	2	0	1	3	4	5	3	2	4
Kagoshima	16	10	8		8		4	8	14	8	10	7	7	9	4	1	1	4	11	4	5	14
Okinawa	1	1	0		1		0	0	0	2	0	0	0	1	0	0	1	0	1	0	0	0
total	540	468	426		303		305	257	242	214	205	204	180	200	210	225	209	146	180	182	184	215

Industrial accidents mean fatal and non-fatal injuries with work absence of 4 days and more. Data of 2011 year include Industrial accidents caused by Great East Japan Earthquake in 2011.

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

Return to https://www.jisha.or.jp/english/statistics/2020e_industry.html

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Fatal accidents in river civil engineering work in Japan in 1999-2020

river civil engineering work industry Code No.030107

Type of fatal accidents in river civil engineering work in 1999-2020

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
fall from height	7	1	4	3	5	4	5	1	5	1	3	3	1	2	2	2	2	2	2	1	2	2
falling to same level	2	0	0	0	0	1	1	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0
crash	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0
struck by flying or	3	1	2	1	1	0	2	2	1	0	1	1	0	0	1	0	0	1	0	2	2	1

falling object																							
collapse	6	1	1	0	0	3	1	0	0	4	2	2	1	2	0	1	1	2	0	3	0	0
crashed by	4	3	2	1	1	5	3	0	1	2	0	1	3	2	0	1	2	1	0	0	3	1
caught in/between	3	5	2	4	5	4	4	2	0	0	1	2	3	4	1	3	4	1	2	1	0	1
cut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0
injury to the sole of the foot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drown	0	1	1	2	1	2	0	1	1	2	2	1	3	0	1	1	1	1	1	0	1	0
contact to high/low-temperature	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
contact to harmful substance	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
electric shock	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
explosion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
burst	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
fire	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
traffic accident (public road)	3	4	1	5	0	1	0	3	1	0	2	3	0	0	0	1	0	0	2	0	0	2
traffic accident (others)	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
reaction to motion/improper motion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
others	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	28	17	14	18	13	20	17	9	10	10	13	13	11	12	6	10	12	8	7	8	11	8

Causal agents (middle) of fatal accidents in river civil engineering work in 1999-2020

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
woodworking machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

construction machine	6	7	8	8	5	9	7	1	2	3	4	4	3	3	2	3	2	2	2	1	2	3
metal manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
general machine	0	1	1	0	0	0	1	1	0	0	0	0	2	1	0	0	1	0	0	1	0	0
mobile silviculture machine																	0	0	0	0	0	0
crane	1	1	0	0	3	3	2	0	0	0	0	0	0	0	1	2	3	2	0	1	0	0
conveying machine	2	4	1	2	1	3	1	1	3	0	2	2	1	4	1	1	1	0	1	0	2	2
vehicle	2	2	0	6	0	0	0	3	0	0	3	3	0	0	0	1	0	0	1	0	1	1
pressure vessel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power machine, tools	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tools	3	0	1	0	1	0	1	0	0	1	0	2	1	0	0	0	0	0	0	0	1	0
other equipments, facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
temporary buildings, establishments	5	0	1	1	2	0	3	1	2	0	1	0	1	3	0	1	3	1	2	1	0	2
hazards, harmful substances	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
materials	2	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0
load	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural environment	6	2	2	1	1	5	1	1	2	5	3	2	3	0	2	2	1	3	1	3	3	0
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	28	17	14	18	13	20	17	9	10	10	13	13	11	12	6	10	12	8	7	8	11	8

Causal agents (small) of fatal accidents in river civil engineering work in 1999-2020

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
circular sawing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
band sawing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wood planer machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hollow chisel mortiser, wood borer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chamfering machine, router, woodworking milling machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other woodworking machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
leveling, transporting or loading machine	2	2	0	2	0	3	2	0	1	0	0	2	0	0	0	0	0	0	0	0	0	1
excavating machine	4	5	7	4	1	5	3	0	1	3	3	2	3	3	2	3	1	1	2	1	2	2
foundation work machine	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hardening machine	0	0	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
demolition machine	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
vehicle for high lift work	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other construction machines	0	0	0	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
lathe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drill press, milling machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
grinding machine,																						

buffing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power press	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
forging pressure hammer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
shearing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other metal manufacturing machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
centrifugal machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mixer, grinder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
roll machine (except printingroll machine)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
injection molding machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
food manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
printing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial robot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other general power machines	0	1	1	0	0	0	1	1	0	0	0	0	2	1	0	0	1	0	0	1	0	0	0
felling machine																	0	0	0	0	0	0	0
mobile logging machine																	0	0	0	0	0	0	0
skyline yarding machine																	0	0	0	0	0	0	0
other mobile silviculture machine																	0	0	0	0	0	0	0
crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mobile crane	1	1	0	0	3	3	2	0	0	0	0	0	0	0	1	2	3	2	0	1	0	0	0
derrick crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
elevator, lift	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cargo lifting appliance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gondola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lumberyard equipment, logging	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

cableway																						
simple skyline yarding equipment																	0	0	0	0	0	0
other powered crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
truck	1	4	0	2	0	3	1	1	2	0	0	2	1	4	0	0	1	0	1	0	2	2
forklift	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
railway equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveyor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
loader	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
straddle carrier	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rough terrain hauler	0	0	1	0	1	0	0	0	1	0	2	0	0	0	1	1	0	0	0	0	0	0
other powered conveying machines	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
cars, bus, motorcycle	2	1	0	4	0	0	0	2	0	0	2	2	0	0	0	1	0	0	1	0	0	0
railway vehicle	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
other vehicles	0	1	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	1	0
boiler	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pressure vessel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other pressure vessels	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
gas welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
arc welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial dryer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric power facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other electrical equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

human power cranes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power hauling equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hand tool	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ladder	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
slinging tool	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	
other tools	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
other equipment, facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
scaffolding	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
timbering	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
stairs, landing stage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
opening	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
roof, beam, haze, crossbeam, principal rafter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
working platform, boot board	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
passage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
building, establishment	3	0	1	1	0	0	2	1	1	0	1	0	0	2	0	0	1	1	2	1	0	2	
other temporary buildings, establishments	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	
explosive substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
harmful substance	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
radiation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
metal material	2	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	
lumber, bamboo	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

stone, sand, substance	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
other materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
machine/equipment as load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural ground, rock	5	1	1	0	0	4	0	0	1	3	1	2	0	0	0	1	0	1	1	1	1	0	
standing tree	1	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	1	1	0	1	1	0	
water	0	0	0	1	1	1	0	0	1	2	1	0	3	0	1	1	0	1	0	0	1	0	
abnormal environment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
high/cold temperature environment	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other environments	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
other causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
unclassifiable	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	28	17	14	18	13	20	17	9	10	10	13	13	11	12	6	10	12	8	7	8	11	8	

Workers age of fatal accidents in river civil engineering work in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
19 years old or less	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
20-29	1	1	0	3	3	2	2	0	1	0	0	1	0	1	0	1	0	0	0	1	3	0
30-39	2	0	4	0	1	0	1	1	2	2	1	3	0	1	0	0	2	1	0	1	0	0
40-49	3	1	2	4	2	4	3	0	0	1	1	2	4	1	0	0	1	1	3	0	2	3
50-59	10	5	4	4	5	9	5	4	2	4	4	4	2	6	2	3	1	2	1	4	0	2
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
total	28	17	14	18	13	20	17	9	10	10	13	13	11	12	6	10	12	8	7	8	11	8

Workers' number of workplace of fatal accidents in river civil engineering work in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	6	6	5	5	5	4	9	5	6	2	4	4	5	3	4	3	4	3	3	3	5	3

10-29	15	7	6	10	7	11	4	4	3	5	7	7	6	9	2	4	5	3	3	2	4	5
30-49	6	2	2	3	0	3	3	0	0	0	1	0	0	0	0	2	2	2	1	1	2	0
50-99	0	2	1	0	1	2	1	0	1	3	1	2	0	0	0	1	1	0	0	1	0	0
100-299	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
300 workers or more	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	28	17	14	18	13	20	17	9	10	10	13	13	11	12	6	10	12	8	7	8	11	8

Month of fatal accidents in river civil engineering work in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	6	1	0	6	0	2	1	1	1	2	2	3	1	0	0	0	1	0	0	1	1	3
February	3	1	2	3	0	3	1	3	5	1	0	1	1	2	1	4	1	0	3	1	3	2
March	1	4	2	2	1	3	2	3	1	1	2	1	3	1	1	0	3	3	0	2	1	0
April	1	2	1	2	1	0	2	1	0	0	1	2	0	2	0	1	0	0	0	0	0	0
May	2	0	0	1	5	0	4	0	2	0	0	1	0	0	1	0	1	2	0	0	0	1
June	2	1	1	0	0	2	0	1	0	0	0	0	0	1	0	1	1	0	1	0	2	0
July	0	0	3	0	3	2	0	0	0	2	0	3	1	2	0	2	0	1	1	1	0	1
August	3	2	0	0	1	2	3	0	0	1	1	0	1	0	1	0	1	0	1	0	0	0
September	2	2	0	0	0	1	0	0	0	0	1	0	1	1	0	0	2	1	1	1	0	0
October	1	2	3	1	0	2	1	0	0	2	1	1	0	1	0	0	1	0	0	1	1	0
November	2	2	1	0	1	1	2	0	0	1	2	1	0	0	0	0	1	0	0	1	1	1
December	5	0	1	3	1	2	1	0	1	0	3	0	3	2	2	2	0	1	0	0	2	0
total	28	17	14	18	13	20	17	9	10	10	13	13	11	12	6	10	12	8	7	8	11	8

Prefecture of fatal accidents in river civil engineering work in 1999-2020

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Hokkaido	3	1	0	2	0	2	0	0	0	0	3	1	0	1	1	2	2	1	2	2	1	1
Aomori	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iwate	1	0	1	0	0	0	2	0	0	0	1	0	1	0	0	0	1	0	0	0	1	1
Miyagi	0	1	1	0	1	1	1	0	1	0	0	1	3	0	1	1	0	1	1	0	1	0
Akita	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
Yamagata	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Fukushima	2	1	0	0	0	1	0	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0
Ibaraki	2	1	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0

Tochigi	1	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Gunma	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1
Saitama	0	0	0	1	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0
Chiba	2	1	0	0	1	0	1	2	1	0	0	1	0	0	0	1	0	0	0	0	0	0
Tokyo	1	1	1	0	0	2	1	0	0	1	0	1	1	0	0	0	0	1	0	0	0	0
Kanagawa	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0
Niigata	1	0	0	0	0	2	1	0	1	1	0	1	0	2	1	0	0	0	0	1	0	1
Toyama	0	0	0	0	1	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0
Ishikawa	1	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
Fukui	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Yamanashi	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Nagano	0	1	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
Gifu	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
Shizuoka	2	1	0	0	0	0	0	1	1	2	1	0	0	1	0	0	0	2	0	0	0	0
Aichi	1	2	1	3	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0
Mie	0	2	0	1	2	0	0	1	1	0	0	0	0	0	0	0	1	0	0	1	1	0
Shiga	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Kyoto	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0
Osaka	0	0	1	0	0	1	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0
Hyogo	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	2	0	1	0
Nara	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Wakayama	0	0	1	0	1	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0
Tottori	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shimane	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Okayama	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hiroshima	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0
Yamaguchi	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tokushima	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagawa	2	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Ehime	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0
Kochi	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukuoka	1	1	2	1	0	0	1	1	0	1	0	0	1	2	0	0	2	0	1	0	0	0
Saga	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1
Nagasaki	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Kumamoto	1	0	0	0	0	2	0	0	0	1	0	0	1	1	0	1	0	0	0	0	1	0

Oita	0	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
Miyazaki	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Kagoshima	0	0	1	0	0	0	0	0	0	0	3	0	1	0	0	0	1	0	0	0	0	0
Okinawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	28	17	14	18	13	20	17	9	10	10	13	13	11	12	6	10	12	8	7	8	11	8

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

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