

Industrial accidents in land consolidation civil engineering work in Japan in 1999-2020

land consolidation civil engineering work industry Code No.030109

Type of accidents in land consolidation 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	150	130	114	120	91	87	99	82	84	86	63	73	63	59	75	69	51	61	70	71	61	71
falling to same level	73	86	55	57	49	29	37	62	33	41	34	35	29	38	33	46	34	30	27	39	29	33
crash	48	31	34	25	17	18	25	29	17	23	12	14	15	19	20	10	15	15	9	10	13	10
struck by flying or falling object	100	92	71	62	68	42	50	57	44	44	37	29	34	38	42	38	32	31	30	26	23	31
collapse	33	27	31	29	19	22	20	18	31	16	10	21	19	9	14	12	10	10	13	13	13	15
crashed by	96	64	67	66	57	55	44	48	42	34	26	28	31	26	27	38	30	23	28	27	24	29
caught in/between	133	145	111	117	85	99	82	78	67	71	68	34	48	47	47	62	48	44	67	43	49	44
cut	56	51	35	43	34	42	31	29	35	27	44	28	15	24	23	23	22	19	31	30	20	22
injury to the sole of the foot	2	0	6	2	2	4	2	2	1	3	2	0	1	3	1	4	2	3	0	2	0	2
drown	0	0	0	-	1	-	0	0	0	0	1	1	2	0	0	3	0	0	0	0	0	1
contact to high/low-temperature	8	9	6	8	5	5	7	5	7	7	0	5	3	4	8	5	4	1	5	5	8	8
contact to harmful substance	0	0	3	-	0	-	2	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0
electric shock	0	0	0	-	0	-	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0
explosion	0	0	0	-	0	-	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
burst	1	0	0	-	0	-	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
fire	0	1	0	1	1	-	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
traffic accident (public road)	26	12	28	19	30	9	11	12	18	6	8	10	8	7	13	7	11	11	9	2	12	12
traffic accident (others)	1	1	0	2	0	-	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0
reaction to motion/improper motion	31	32	30	23	19	23	18	17	18	20	23	11	14	16	14	14	8	23	22	21	22	18
others	4	3	2	2	2	3	4	8	2	3	1	3	4	3	2	5	1	1	4	3	2	2

unclassifiable	0	0	1	-	2	-	1	0	1	0	1	0	0	1	2	0	1	0	0	0	2	0
total	762	684	594	576	482	438	434	448	401	384	330	292	289	294	321	337	269	273	315	293	278	298

Causal agents (middle) of industrial accidents in land consolidation 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	1	0	0	-	1	-	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	0	4	2	0	3	0	0	0	1	0	0	0	0	1	0	0	1	1	0	0	1
woodworking machine	24	28	15	18	19	19	20	14	22	9	24	9	10	10	13	10	7	13	16	12	10	11
construction machine	140	113	103	99	89	84	78	80	60	75	53	49	57	50	45	58	53	41	57	40	45	45
metal manufacturing machine	6	8	11	11	6	6	9	5	7	7	7	5	3	6	4	5	7	4	2	7	2	6
general machine	18	18	7	18	17	16	11	15	16	9	17	10	10	8	8	16	12	7	12	11	14	7
mobile silviculture machine																	1	0	0	0	1	0
crane	23	21	15	20	21	18	18	14	17	18	12	5	11	8	14	13	8	13	16	12	10	11
conveying machine	107	77	74	68	47	48	43	46	44	40	36	32	33	37	39	43	30	31	44	33	31	29
vehicle	11	11	14	15	25	3	12	10	14	8	4	9	3	7	14	6	4	10	5	4	6	11
pressure vessel	0	2	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	1	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	1	0	0	-	0	-	0	0	2	0	0	1	1	0	0	0	0	0	0	1	0	0
kiln, caldron	0	0	0	-	0	-	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric equipment	0	0	0	-	0	-	0	0	0	2	1	1	1	1	0	0	0	1	0	0	1	0
human power machine, tools	27	29	22	25	22	13	13	18	13	19	11	13	8	10	10	10	9	7	9	14	7	11
tools	64	30	28	33	25	25	30	27	22	36	23	15	18	21	17	26	15	19	17	17	24	25
other equipments, facilities	4	7	7	6	4	5	1	5	3	5	1	6	3	1	1	3	2	3	2	3	0	4
temporary buildings,	112	111	94	91	73	63	66	79	67	61	43	43	43	44	44	44	41	45	50	48	38	50

establishments																						
hazards, harmful substances	4	5	4	3	2	-	2	1	1	0	0	0	2	0	1	1	0	0	0	1	0	0
materials	111	107	99	87	65	55	60	65	52	36	38	36	34	29	42	36	27	34	31	27	31	24
load	14	19	14	22	7	10	5	11	8	6	7	1	4	10	9	5	7	4	8	8	5	11
natural environment	80	81	68	52	48	60	51	53	45	43	39	50	40	44	54	56	39	31	30	46	43	42
other causal agent	6	8	4	2	4	2	2	3	2	2	0	0	2	0	0	1	0	2	2	1	1	0
no causal agent	9	9	10	4	6	8	11	1	4	6	13	7	6	7	4	4	7	7	12	8	7	10
unclassifiable	0	0	1	-	1	-	1	0	2	1	1	0	0	1	1	0	0	0	0	0	2	0
total	762	684	594	576	482	438	434	448	401	384	330	292	289	294	321	337	269	273	315	293	278	298

Causal agents (small) of industrial accidents in land consolidation 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		1		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism			4		0		0	0	0	1	0	0	0	0	1	0	0	1	1	0	0	1
circular sawing machine			5		5		12	6	7	4	9	3	4	3	7	2	1	3	5	6	4	2
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		1		0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw			8		11		5	8	11	1	13	5	5	6	5	7	3	7	9	5	5	9
other woodworking machines			2		2		3	0	4	4	2	1	1	1	1	1	3	2	2	1	0	0
leveling, transporting or loading machine			18		21		14	19	14	15	7	4	6	4	6	9	11	6	10	2	8	6
excavating machine			49		42		48	47	33	40	29	33	32	25	28	35	23	22	29	30	29	29





equipment																						
arc welding equipment			0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	
other welding equipment			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	
industrial dryer			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other kiln, caldron			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
transmission			0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
electric power facilities			0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	
other electrical equipment			0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	1	0	0	
human power cranes			0	2	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	0	0	
human power hauling equipment			4	1	2	2	0	3	0	2	1	1	1	1	0	0	0	2	1	1	1	
human power machine			0	0	0	1	0	0	0	0	0	0	1	0	0	0	1	1	1	1	1	
hand tool			18	19	11	15	13	15	11	11	7	9	8	9	8	6	7	11	5	9	9	
ladder			13	11	21	16	12	19	16	11	15	12	14	13	6	15	10	13	12	19	19	
slinging tool			7	8	6	5	4	7	4	1	1	5	1	5	5	2	4	1	5	3	3	
other tools			8	6	3	6	6	10	3	3	2	4	2	8	4	2	3	3	7	3	3	
other equipment, facilities			7	4	1	5	3	5	1	6	3	1	1	3	2	3	2	3	0	4	4	
scaffolding			8	6	11	8	7	5	6	1	3	1	5	1	4	3	3	1	2	3	3	
timbering			9	6	2	3	3	2	2	2	2	1	1	1	0	0	1	2	3	2	2	
stairs, landing stage			4	2	1	3	6	2	6	2	2	3	4	2	1	4	2	1	2	4	4	
opening			7	1	1	1	2	0	1	1	1	2	2	0	3	1	3	1	3	2	2	
roof, beam, haze, crossbeam, principal rafter			2	3	3	3	1	4	3	2	3	0	2	1	0	2	1	2	0	1	1	
working platform, boot board			13	8	8	11	10	11	1	6	6	6	4	9	7	8	6	8	1	6	6	
passage			17	22	12	20	9	11	7	9	7	13	9	11	14	13	15	16	14	14	14	
building, establishment			27	17	20	20	18	19	7	15	11	12	12	14	8	9	14	12	10	10	10	



19 years old or less	20	16	24	17	16	2	4	5	6	3	1	4	4	3	10	9	7	5	7	4	4	1
20-29	113	104	93	114	55	67	57	58	55	41	37	39	33	45	32	34	30	32	35	26	19	48
30-39	79	77	78	82	75	70	61	80	73	72	57	54	57	46	46	42	35	45	40	34	36	26
40-49	119	110	99	81	92	68	65	64	51	67	43	50	42	60	59	67	62	59	57	58	61	52
50-59	194	198	154	151	131	134	127	132	101	99	94	74	71	60	68	85	42	55	63	71	59	58
60 years old or more	237	179	146	131	113	97	120	109	115	102	98	71	82	80	106	100	93	77	113	100	99	113
total	762	684	594	576	482	438	434	448	401	384	330	292	289	294	321	337	269	273	315	293	278	298

Workers' number of workplace of industrial accidents in land consolidation 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	397	373	307	298	275	238	272	257	218	238	197	162	174	174	169	195	157	132	166	149	142	147
10-29	278	228	207	200	153	147	115	147	146	121	98	107	89	96	119	100	80	105	116	110	100	107
30-49	54	55	52	46	29	34	37	32	21	16	25	12	18	13	26	28	24	25	26	26	22	36
50-99	25	21	24	24	20	12	8	9	13	7	9	6	4	8	4	12	8	6	4	6	10	5
100-299	8	7	4	8	5	7	2	3	2	2	1	4	3	3	2	2	0	5	3	1	4	3
300 workers or more	0	0	0	—	0	0	0	0	1	0	0	1	1	0	1	0	0	0	0	1	0	0
total	762	684	594	576	482	438	434	448	401	384	330	292	289	294	321	337	269	273	315	293	278	298

Month of industrial accidents in land consolidation 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	53	65	56	37	43	37	41	31	36	22	38	31	23	19	27	30	18	17	27	24	23	15
February	69	64	55	57	54	49	33	43	37	26	34	21	31	21	25	35	18	27	24	33	28	28
March	79	77	59	77	43	48	40	39	41	39	33	36	22	33	31	25	23	17	26	25	16	27
April	60	42	60	45	33	39	42	38	37	30	22	29	18	27	32	26	19	22	25	25	22	23
May	61	43	54	52	31	37	22	19	29	41	34	11	20	17	24	20	22	29	23	14	21	16
June	55	52	38	46	43	28	38	47	31	26	19	18	25	26	22	29	21	26	23	33	21	29
July	84	56	55	31	39	38	43	40	25	55	31	25	20	23	28	39	16	28	35	33	27	18
August	53	65	34	48	31	33	30	33	31	34	16	15	21	25	25	29	32	21	24	27	21	24
September	55	63	44	45	42	28	35	44	39	33	23	27	24	24	32	27	40	22	20	21	30	33
October	56	61	48	48	40	34	34	44	31	28	24	30	30	22	23	29	19	25	36	24	26	32
November	64	46	48	45	42	37	42	36	33	21	28	22	29	22	29	23	20	19	25	18	23	27
December	73	50	43	45	41	30	34	34	31	29	28	27	26	35	23	25	21	20	27	16	20	26



total	762	684	594	576	482	438	434	448	401	384	330	292	289	294	321	337	269	273	315	293	278	298
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Prefecture of industrial accidents in land consolidation 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	37	20	26		9		19	13	10	12	23	19	10	10	13	14	16	19	16	20	12	28
Aomori	9	7	8		1		1	4	2	2	2	1	3	1	2	2	2	1	2	1	1	3
Iwate	12	10	9		11		2	10	3	2	5	4	10	3	4	13	10	6	9	8	8	4
Miyagi	6	7	6		13		3	12	9	15	9	4	9	7	3	10	11	8	4	6	14	6
Akita	12	4	10		6		6	11	9	1	7	6	5	9	14	8	5	1	13	7	10	16
Yamagata	6	11	4		2		2	1	6	4	4	2	1	6	2	2	1	5	4	7	4	5
Fukushima	19	13	9		12		8	6	16	10	6	10	5	14	12	8	4	4	6	5	7	5
Ibaraki	24	13	17		9		7	14	8	11	7	7	1	3	5	1	3	2	4	1	3	4
Tochigi	12	9	11		5		2	4	3	0	5	4	4	7	8	5	1	5	6	1	3	4
Gunma	18	17	13		15		7	8	5	9	8	4	10	4	4	4	5	5	3	5	5	7
Saitama	16	31	29		13		11	16	23	19	12	6	6	15	9	15	7	5	16	16	11	9
Chiba	18	19	18		21		11	24	15	25	18	14	12	18	18	16	16	12	21	16	11	28
Tokyo	17	15	21		16		15	15	20	12	17	14	11	9	16	10	10	9	23	8	10	11
Kanagawa	14	34	38		36		42	36	33	30	29	16	37	33	27	25	26	30	16	24	17	17
Niigata	18	18	17		8		10	17	12	3	7	9	8	6	4	9	1	4	5	8	4	3
Toyama	9	10	3		3		5	2	5	5	1	7	2	0	4	4	5	5	5	1	3	6
Ishikawa	5	8	6		2		4	4	2	2	0	5	3	3	0	1	1	2	5	3	2	3
Fukui	10	8	2		5		4	1	2	2	2	3	2	3	1	1	7	0	0	2	2	2
Yamanashi	10	9	10		2		3	0	3	1	0	1	1	2	1	4	1	4	1	5	0	0
Nagano	23	13	9		16		10	5	3	10	8	4	6	2	5	6	5	0	8	3	8	5
Gifu	33	20	24		8		2	2	8	3	2	8	3	2	4	7	7	3	4	2	8	6
Shizuoka	25	25	14		13		11	15	16	13	10	11	15	11	12	14	12	6	6	14	12	7
Aichi	26	15	15		10		16	9	15	13	18	10	12	11	11	12	12	15	13	8	7	7
Mie	22	8	11		10		10	11	12	13	12	5	7	6	8	7	8	8	8	9	6	4
Shiga	2	5	9		5		9	3	5	7	1	0	0	3	3	0	2	0	0	0	3	7
Kyoto	18	10	6		3		7	9	10	8	6	4	5	3	3	3	2	1	4	2	1	1
Osaka	13	14	14		18		8	15	23	27	23	14	7	7	8	9	5	8	11	4	6	8
Hyogo	33	36	27		30		32	21	11	16	8	11	11	9	11	17	8	9	15	15	9	6
Nara	32	16	10		17		6	12	6	14	8	4	8	9	3	5	2	7	5	5	2	1
Wakayama	26	7	12		9		10	13	11	9	5	7	6	3	9	7	4	8	2	4	3	2
Tottori	2	1	2		8		3	2	3	1	1	4	3	4	1	3	0	0	0	0	0	0

Shimane	10	9	14		6		4	5	3	1	2	0	1	2	2	1	1	1	0	1	4	1
Okayama	31	19	16		14		13	4	5	5	6	5	3	1	4	3	3	5	3	5	3	5
Hiroshima	24	13	15		12		13	8	12	10	4	4	8	7	11	6	2	3	6	1	0	12
Yamaguchi	7	12	9		10		7	9	5	13	3	1	3	5	6	7	4	6	4	6	7	8
Tokushima	2	7	3		4		4	4	1	6	2	1	2	1	3	3	4	3	0	1	1	8
Kagawa	4	6	2		6		5	2	2	0	3	5	3	6	2	0	0	6	5	2	0	4
Ehime	17	23	15		10		12	3	2	0	3	4	5	6	4	6	2	3	2	4	3	2
Kochi	7	10	15		6		3	9	7	3	4	4	1	7	3	1	1	3	4	6	4	4
Fukuoka	43	54	30		22		26	36	25	11	12	17	12	17	23	23	24	16	15	18	17	13
Saga	6	10	4		6		3	4	1	2	3	4	6	2	7	4	6	5	7	5	4	6
Nagasaki	17	21	19		11		9	2	3	8	6	1	2	4	5	6	5	3	2	6	9	3
Kumamoto	9	5	8		5		5	9	4	5	5	9	2	3	5	8	0	5	7	7	9	4
Oita	15	16	10		13		16	9	7	7	1	6	5	4	10	7	9	9	8	6	2	2
Miyazaki	5	7	5		4		5	6	2	4	3	4	4	2	0	2	0	2	1	4	9	2
Kagoshima	31	38	19		13		19	20	8	5	7	5	2	3	11	13	7	8	11	9	10	7
Okinawa	7	1	0		4		4	3	5	5	2	4	7	1	0	5	2	3	5	2	4	2
total	762	684	594		482		434	448	401	384	330	292	289	294	321	337	269	273	315	293	278	298

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](https://www.jisha.or.jp/english/statistics/2020e_industry.html)

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Fatal accidents in land consolidation civil engineering work in Japan in 1999-2020

land consolidation civil engineering work industry Code No.030109

Type of fatal accidents in land consolidation 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	6	5	2	1	3	3	2	3	4	0	1	1	1	1	1	0	0	1	3	2	0	0
falling to same level	1	3	1	1	1	0	1	1	0	1	0	2	0	1	0	1	0	0	0	0	0	1
crash	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
struck by flying or	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0



construction machine	6	8	2	1	3	5	3	8	3	3	5	2	0	2	1	4	1	2	5	1	2	2
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	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mobile silviculture machine																	0	0	0	0	0	0
crane	0	1	2	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
conveying machine	6	4	5	1	2	3	1	2	1	1	1	1	0	2	0	2	1	0	3	0	1	0
vehicle	1	2	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	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
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	0	0	1	0	0	1	0	0	0	1	0	1	0	0	1	0	1	0	0	0	0	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	2	0	1	3	0	0	0	0	1	2	0	0	1	0	0	0	0	0	2	1	0	0
hazards, harmful substances	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
materials	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
load	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural environment	5	6	1	0	3	5	8	3	3	2	2	1	8	0	1	4	1	0	3	2	3	3
other causal agent	0	0	1	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	0	0	0	0	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	21	23	14	10	9	14	13	13	8	10	8	6	9	4	3	10	5	2	14	4	8	5











stone, sand, substance	0	0	0	0	0	0	0	0	0	0	0	0	0	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
load	1	0	1	0	0	0	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
natural ground, rock	2	3	0	0	2	3	6	1	3	0	0	1	0	0	1	0	0	0	3	0	2	2
standing tree	1	2	1	0	1	1	1	0	0	1	1	0	0	0	0	2	1	0	0	1	0	1
water	0	0	0	0	0	0	0	0	0	0	1	0	8	0	0	2	0	0	0	1	0	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
high/cold temperature environment	2	1	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0
other environments	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other causal agent	0	0	1	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	0	0	0	0	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	21	23	14	10	9	14	13	13	8	10	8	6	9	4	3	10	5	2	14	4	8	5

Workers age of fatal accidents in land consolidation 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	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
20-29	2	5	2	1	2	1	0	2	0	0	1	1	0	0	0	0	0	0	2	0	0	0
30-39	1	3	0	2	0	0	2	2	1	3	1	0	1	0	0	0	1	0	0	0	0	0
40-49	4	5	2	2	1	3	1	3	1	1	2	2	2	1	0	4	2	0	1	0	2	1
50-59	7	4	5	3	1	8	4	4	5	0	1	1	4	1	2	1	0	1	2	1	2	1
60 years old or more	7	6	4	2	5	2	6	2	1	6	3	2	2	2	1	5	2	1	8	3	4	3
total	21	23	14	10	9	14	13	13	8	10	8	6	9	4	3	10	5	2	14	4	8	5

Workers' number of workplace of fatal accidents in land consolidation 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	9	12	8	6	6	6	4	9	4	7	4	6	4	1	2	6	3	1	6	1	5	4



Tochigi	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gunma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saitama	0	0	0	0	1	2	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0
Chiba	0	1	1	2	1	1	0	1	1	1	1	1	0	1	1	0	1	0	1	0	0	1
Tokyo	2	1	0	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0
Kanagawa	0	1	2	0	0	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0
Niigata	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Toyama	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0
Ishikawa	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Fukui	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Yamanashi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nagano	2	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gifu	1	1	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0
Shizuoka	1	0	1	0	0	0	0	2	0	0	1	0	0	1	1	1	0	0	0	2	0	0
Aichi	1	0	2	0	0	0	1	1	0	1	0	0	0	0	1	1	0	0	0	1	0	0
Mie	0	0	0	2	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Shiga	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kyoto	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0
Osaka	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0
Hyogo	2	4	0	1	0	1	1	2	0	0	0	0	0	1	0	0	0	0	1	1	1	0
Nara	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wakayama	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tottori	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shimane	1	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Okayama	1	1	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Hiroshima	1	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0
Yamaguchi	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tokushima	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0
Kagawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Ehime	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Kochi	1	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Fukuoka	1	0	0	0	2	0	1	1	0	0	0	1	0	0	1	0	0	0	0	1	0	0
Saga	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Nagasaki	0	0	0	0	1	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
Kumamoto	1	1	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0

Oita	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	
Miyazaki	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	
Kagoshima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
Okinawa	0	1	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	
total	21	23	14	10	9	14	13	13	8	10	8	6	9	4	3	10	5	2	14	4	8	5

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

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