

Industrial accidents in other sand and stone products in Japan in 1999-2020

other sand and stone products industry Code No.010909

Type of accidents in other sand and stone products 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	110	103	111	87	74	69	81	84	66	83	65	53	44	56	49	49	56	61	58	45	59	51
falling to same level	87	72	85	55	64	48	57	53	52	46	38	35	35	48	57	40	24	39	40	32	40	32
crash	36	38	37	26	26	24	24	23	24	16	13	16	20	23	11	19	11	16	13	12	17	12
struck by flying or falling object	132	108	107	114	88	90	67	64	72	52	39	54	41	42	40	37	45	32	18	20	19	29
collapse	39	39	24	20	19	22	9	20	32	12	10	15	15	18	6	12	15	17	6	8	10	9
crashed by	44	55	43	48	29	30	26	28	35	36	23	23	20	19	18	12	23	15	14	17	14	14
caught in/between	239	243	234	204	181	181	160	163	176	127	123	121	119	125	111	100	112	86	99	76	87	80
cut	48	41	34	36	33	26	32	28	31	27	22	23	18	17	15	13	17	19	13	18	15	15
injury to the sole of the foot	1	5	5	5	1	-	3	1	6	1	1	1	1	0	0	0	2	1	0	2	0	2
drown	0	1	0	-	2	-	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0
contact to high/low-temperature	9	7	11	8	6	10	5	8	10	5	7	10	3	9	9	10	8	3	4	6	4	12
contact to harmful substance	2	2	2	4	4	3	6	5	2	5	1	1	2	0	3	0	2	0	1	3	2	1
electric shock	1	2	1	-	0	-	2	0	0	0	0	1	1	1	0	0	0	0	0	1	0	0
explosion	0	0	1	1	0	-	1	1	2	2	0	0	0	1	0	1	0	1	1	0	2	0
burst	1	1	3	2	0	-	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
fire	0	0	1	-	1	-	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
traffic accident (public road)	15	5	8	12	10	6	4	8	4	5	3	5	6	9	6	6	3	5	5	3	3	7
traffic accident (others)	0	0	2	-	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
reaction to motion/improper motion	64	54	60	47	54	36	41	45	43	43	47	36	34	29	30	28	37	30	32	21	31	31
others	3	3	6	2	6	3	7	0	1	5	2	1	3	1	2	2	4	2	3	0	0	3

unclassifiable	3	0	2	-	1	1	1	2	1	0	0	0	0	0	0	0	0	1	0	0	1	
total	834	779	777	671	599	550	528	533	558	467	394	395	364	398	357	329	360	328	309	264	303	299

Causal agents (middle) of industrial accidents in other sand and stone products 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	1	1	0	-	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
power transmission mechanism	8	6	20	12	5	6	2	7	8	11	6	4	4	6	2	6	5	7	9	9	4	3
woodworking machine	9	10	8	10	16	6	6	8	15	7	4	7	8	2	3	2	7	7	2	4	5	3
construction machine	24	13	14	10	17	5	13	13	14	8	10	7	10	15	8	7	3	7	5	6	3	5
metal manufacturing machine	26	20	16	31	21	20	21	9	13	13	13	13	9	10	10	8	9	6	14	10	5	9
general machine	97	95	74	71	60	66	55	55	61	52	48	44	55	48	49	42	44	42	32	42	31	32
mobile silviculture machine																	0	0	0	0	0	0
crane	28	33	34	37	21	30	23	22	19	22	17	21	21	15	14	10	16	10	10	10	11	15
conveying machine	122	126	143	110	94	99	93	95	91	83	70	74	55	77	58	60	61	57	71	42	51	48
vehicle	12	4	9	7	3	6	1	7	3	5	4	6	6	6	3	5	3	2	5	1	2	6
pressure vessel	0	1	2	-	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1
chemical facilities	0	0	0	1	0	-	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	1	0	0	1	2	-	0	0	0	0	1	0	1	0	0	0	3	1	1	0	0	0
kiln, caldron	2	3	8	2	0	-	0	3	2	3	1	1	3	2	3	2	2	1	0	0	2	0
electric equipment	5	3	1	1	1	-	3	2	0	3	2	2	2	1	1	0	0	1	0	1	0	0
human power machine, tools	32	40	27	29	28	28	23	20	28	26	16	10	13	14	12	13	9	13	12	7	14	12
tools	57	49	40	51	27	38	34	36	43	37	26	18	22	19	28	23	31	25	26	24	36	25
other equipments, facilities	23	12	21	20	19	16	14	22	15	5	8	11	10	17	14	5	12	9	7	6	5	18
temporary buildings,	100	84	103	70	79	66	85	70	77	61	58	52	46	54	62	46	52	54	45	37	54	39

establishments																						
hazards, harmful substances	4	4	3	10	7	3	11	5	3	5	3	0	1	1	5	2	2	1	2	4	2	2
materials	212	209	180	141	126	103	92	102	107	67	66	81	66	68	49	62	56	37	34	32	39	39
load	36	28	29	31	29	26	20	26	26	22	14	18	12	18	15	15	18	29	8	2	18	12
natural environment	10	18	15	6	17	9	9	14	5	12	4	13	13	13	13	11	9	10	12	13	11	14
other causal agent	9	4	7	3	7	1	4	1	3	4	3	2	1	2	1	1	4	1	3	1	2	2
no causal agent	14	16	22	15	20	19	17	15	21	19	20	10	6	9	7	9	12	8	9	13	7	14
unclassifiable	3	1	0	1	0	2	2	1	2	2	0	0	0	1	0	0	1	0	2	0	0	0
total	834	779	777	671	599	550	528	533	558	467	394	395	364	398	357	329	360	328	309	264	303	299

Causal agents (small) of industrial accidents in other sand and stone products 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			1		0		0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0
power transmission mechanism			20		5		2	7	8	11	6	4	4	6	2	6	5	7	9	9	4	3
circular sawing machine			6		15		3	3	13	5	3	3	6	2	1	1	6	5	1	1	4	3
band sawing machine			0		0		0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0
wood planer machine			0		0		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
hollow chisel mortiser, wood borer			0		0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
chamfering machine, router, woodworking milling machine			0		1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw			0		0		1	2	0	2	1	2	1	0	2	0	0	1	0	1	0	0
other woodworking machines			2		0		2	2	2	0	0	1	1	0	0	1	0	1	1	1	0	0
leveling, transporting or loading machine			3		6		6	3	7	2	3	2	7	5	4	3	2	5	0	0	1	3
excavating machine			6		8		4	6	4	3	5	4	2	6	2	2	1	0	5	5	2	2



machine																0	0	0	0	0	0	
other mobile silviculture machine																0	0	0	0	0	0	
crane			14		15		11	16	11	10	10	10	7	7	5	6	8	6	3	4	7	11
mobile crane			16		6		11	5	7	10	6	9	11	6	9	3	7	4	6	5	4	4
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	1	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		0		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			4		0		1	0	1	1	1	2	3	2	0	1	1	0	1	1	0	0
truck			61		38		26	34	33	37	20	25	17	32	21	24	20	18	37	15	17	18
forklift			24		8		17	16	14	15	14	8	5	13	10	7	11	12	6	12	7	8
railway equipment			0		1		1	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0
conveyor			37		28		33	32	36	21	30	32	25	24	22	20	24	20	21	10	18	19
loader			2		1		2	2	2	1	1	3	1	2	0	1	1	1	2	1	2	0
straddle carrier			0		1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rough terrain hauler			4		4		4	1	0	3	2	1	1	2	0	0	0	3	1	2	1	0
other powered conveying machines			15		13		10	9	6	6	2	5	6	3	5	8	5	3	4	2	5	3
cars, bus, motorcycle			8		3		1	7	3	3	3	5	6	5	3	5	3	1	4	1	2	5
railway vehicle			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other vehicles			1		0		0	0	0	2	1	1	0	1	0	0	0	1	1	0	0	1
boiler			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pressure vessel			1		0		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
other pressure vessels			1		0		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
chemical facilities			0		0		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
gas welding			0		0		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

equipment																					
arc welding equipment			0	1		0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
other welding equipment			0	1		0	0	0	0	1	0	0	0	0	0	1	1	1	0	0	0
kiln, caldron			6	0		0	3	2	3	1	0	2	2	2	2	2	0	0	0	1	0
industrial dryer			0	0		0	0	0	0	0	1	1	0	1	0	0	1	0	0	1	0
other kiln, caldron			2	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission			0	0		2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric power facilities			1	0		0	1	0	3	1	2	1	0	0	0	0	1	0	1	0	0
other electrical equipment			0	1		1	1	0	0	1	0	1	1	1	0	0	0	0	0	0	0
human power cranes			0	0		0	0	1	3	0	1	0	0	0	1	2	1	0	0	1	1
human power hauling equipment			9	8		7	8	9	5	5	4	4	4	3	4	3	0	5	1	7	4
human power machine			0	2		0	1	1	1	0	0	0	0	0	0	2	0	0	1	1	
hand tool			18	18		16	11	17	17	11	5	9	10	9	8	4	10	7	6	5	6
ladder			12	10		13	13	14	16	10	4	10	10	11	9	8	11	13	13	13	12
slinging tool			7	8		6	7	15	10	6	2	5	2	5	6	7	4	2	1	7	5
other tools			21	9		15	16	14	11	10	12	7	7	12	8	16	10	11	10	16	8
other equipment, facilities			21	19		14	22	15	5	8	11	10	17	14	5	12	9	7	6	5	18
scaffolding			5	3		4	0	2	5	2	0	2	0	2	0	2	0	1	1	2	2
timbering			1	2		1	1	1	1	2	0	1	0	1	0	1	0	0	0	0	1
stairs, landing stage			17	12		12	10	10	5	9	7	8	6	5	7	4	7	5	1	9	4
opening			1	3		0	2	0	0	1	1	0	2	1	1	1	1	1	1	2	5
roof, beam, haze, crossbeam, principal rafter			7	1		4	3	2	2	5	2	4	4	3	1	0	1	1	2	1	1
working platform, boot board			16	15		11	11	15	5	11	8	4	10	11	4	7	12	12	8	8	8
passage			33	21		26	16	19	18	13	17	16	16	21	19	16	22	18	14	18	8
building, establishment			15	14		14	15	15	12	8	9	6	8	6	8	16	10	3	5	7	6



19 years old or less	19	21	11	17	15	7	12	4	11	4	5	4	3	12	6	7	9	7	2	1	0	4
20-29	130	124	130	95	75	86	77	77	61	65	51	36	51	46	42	41	38	30	29	34	39	28
30-39	132	131	143	122	114	112	89	119	124	98	90	85	78	77	63	65	79	52	46	42	41	48
40-49	161	152	150	131	116	97	110	89	108	92	80	82	79	82	84	73	72	86	78	51	76	88
50-59	248	229	216	204	169	147	157	152	148	116	96	98	78	93	92	82	77	69	75	81	76	72
60 years old or more	144	122	127	102	110	101	83	92	106	92	72	90	75	88	70	61	85	84	79	55	71	59
total	834	779	777	671	599	550	528	533	558	467	394	395	364	398	357	329	360	328	309	264	303	299

Workers' number of workplace of industrial accidents in other sand and stone products 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	327	319	318	290	264	225	234	229	212	190	161	157	162	161	141	117	117	104	115	78	115	92
10-29	289	259	257	235	189	201	193	183	171	153	145	133	112	147	136	116	133	123	106	90	104	105
30-49	90	96	96	77	71	63	52	50	76	62	35	43	38	40	40	47	46	53	41	43	39	47
50-99	71	67	61	47	46	36	23	43	45	27	32	34	25	24	23	25	35	22	22	31	23	29
100-299	50	37	34	20	26	23	20	23	38	28	17	26	25	23	12	22	22	19	20	19	16	22
300 workers or more	7	1	11	2	3	2	6	5	16	7	4	2	2	3	5	2	7	7	5	3	6	4
total	834	779	777	671	599	550	528	533	558	467	394	395	364	398	357	329	360	328	309	264	303	299

Month of industrial accidents in other sand and stone products 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	55	59	65	45	50	37	46	37	36	32	32	36	28	32	31	24	34	28	32	25	31	33
February	78	66	67	53	42	42	44	43	41	36	31	28	18	42	27	33	30	29	33	20	18	24
March	71	53	83	64	68	43	40	44	41	41	33	30	36	26	38	35	28	26	26	22	19	29
April	60	65	60	53	53	50	44	48	51	47	32	26	37	30	19	22	22	27	22	19	23	15
May	76	72	66	63	54	49	48	37	53	29	31	25	29	37	36	24	28	19	24	18	31	19
June	71	74	58	58	54	42	44	48	61	52	34	36	46	44	28	24	38	35	31	21	22	25
July	77	79	80	69	70	52	48	63	58	51	31	38	30	42	36	37	30	29	29	26	36	18
August	64	70	65	54	44	51	43	50	41	34	29	33	29	20	26	32	30	18	27	26	31	31
September	87	58	52	53	48	52	44	44	40	34	28	47	20	38	24	23	32	30	28	18	32	28
October	61	68	59	65	37	60	46	49	53	49	46	34	31	31	31	29	33	27	24	24	23	28
November	65	69	73	56	43	41	45	42	47	31	36	33	35	24	27	25	35	35	19	24	24	29
December	69	46	49	38	36	31	36	28	36	31	31	29	25	32	34	21	20	25	14	21	13	20



total	834	779	777	671	599	550	528	533	558	467	394	395	364	398	357	329	360	328	309	264	303	299
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Prefecture of industrial accidents in other sand and stone products 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	28	45	21		24		11	15	21	21	16	16	16	20	11	9	8	15	10	4	7	5
Aomori	14	12	9		2		4	5	0	4	5	1	1	1	4	2	2	2	2	1	7	6
Iwate	15	14	12		8		11	5	8	6	8	6	5	7	10	6	5	1	1	2	2	1
Miyagi	17	8	15		15		9	8	7	13	5	6	12	15	6	6	7	7	8	5	5	8
Akita	15	8	6		5		2	5	4	4	9	3	5	2	4	4	4	1	2	4	2	2
Yamagata	12	9	10		9		3	6	6	2	5	2	2	7	4	3	4	5	5	3	2	0
Fukushima	14	27	23		15		11	19	12	10	5	9	8	14	13	8	6	11	12	14	12	13
Ibaraki	53	43	43		27		27	34	27	28	18	22	26	24	21	24	25	9	12	9	16	13
Tochigi	19	32	13		21		17	12	16	9	9	13	8	11	13	6	12	11	11	5	5	9
Gunma	20	14	23		10		14	5	10	4	8	6	4	7	5	10	5	6	4	5	11	5
Saitama	19	27	27		21		22	12	25	19	12	22	20	8	11	13	14	10	10	6	11	15
Chiba	17	14	23		14		20	8	24	13	12	12	11	14	12	12	8	10	10	14	6	13
Tokyo	12	11	11		12		7	10	11	7	9	4	3	8	5	6	5	4	5	6	12	1
Kanagawa	20	13	17		15		19	19	10	21	8	19	12	7	5	12	14	9	7	7	4	7
Niigata	19	26	24		13		16	20	16	13	4	7	7	10	8	8	7	4	5	6	5	4
Toyama	16	12	6		11		5	11	7	8	9	5	5	7	4	6	5	2	4	3	2	5
Ishikawa	4	8	4		7		6	4	10	6	4	3	1	1	4	0	2	3	4	3	5	4
Fukui	9	7	3		0		0	1	1	1	3	1	2	2	1	1	1	2	3	0	3	1
Yamanashi	14	9	10		12		6	8	6	1	3	3	5	3	5	5	3	0	0	0	2	0
Nagano	11	14	23		11		14	22	14	9	10	8	7	14	15	8	7	11	9	8	5	6
Gifu	55	48	41		33		24	40	39	29	30	28	20	28	25	27	29	17	24	14	23	32
Shizuoka	47	38	37		25		12	15	15	9	8	8	12	13	4	11	9	6	7	17	11	6
Aichi	60	53	61		46		34	36	40	27	30	23	26	24	21	21	19	29	28	29	20	21
Mie	19	14	19		11		23	16	17	11	12	10	11	10	6	10	10	14	5	11	12	6
Shiga	14	6	8		13		11	17	14	15	8	10	8	9	9	6	6	6	10	5	8	7
Kyoto	13	9	9		8		7	14	12	12	12	11	8	6	7	4	9	7	8	3	4	6
Osaka	25	20	22		22		15	12	10	7	3	7	11	13	7	13	12	7	15	7	7	5
Hyogo	17	20	24		14		13	17	24	22	16	17	14	8	11	6	17	12	10	6	17	16
Nara	4	9	7		9		6	1	5	8	4	4	1	3	2	3	1	5	1	1	3	6
Wakayama	2	7	12		4		9	3	2	4	3	6	2	0	2	1	1	8	0	2	1	0
Tottori	7	3	2		1		0	4	3	1	1	0	1	2	0	0	0	2	1	1	1	0

Shimane	13	8	14		15		9	7	8	3	5	7	7	3	8	5	10	5	4	3	1	1
Okayama	31	34	36		23		23	26	13	18	13	19	12	19	16	12	20	13	7	9	16	17
Hiroshima	10	15	19		12		9	10	10	12	6	9	7	8	8	6	8	14	6	6	4	5
Yamaguchi	3	14	6		8		5	7	4	6	4	3	7	6	7	0	2	4	2	2	4	4
Tokushima	7	4	2		3		5	3	5	3	5	5	2	1	4	2	5	6	2	3	2	0
Kagawa	28	29	29		19		13	17	14	14	15	14	9	9	7	14	7	7	8	5	6	8
Ehime	16	14	17		11		14	6	14	8	6	6	4	12	9	3	8	8	8	10	6	3
Kochi	14	5	8		7		7	5	10	5	9	4	3	6	4	1	5	4	8	2	6	4
Fukuoka	19	23	18		12		17	10	20	15	13	21	13	10	22	17	11	12	16	12	10	10
Saga	5	5	1		6		1	4	4	2	2	0	0	2	0	1	2	1	0	1	2	2
Nagasaki	14	9	4		4		10	8	11	5	6	5	7	5	1	2	4	7	2	4	4	8
Kumamoto	16	7	20		16		9	8	13	5	7	3	8	3	5	2	1	3	3	3	2	3
Oita	21	12	13		12		8	8	10	12	7	4	2	5	6	5	8	1	4	0	2	6
Miyazaki	7	9	5		8		11	6	3	6	3	0	6	6	3	2	7	3	3	0	3	4
Kagoshima	16	9	13		4		4	4	2	7	3	3	1	1	1	2	4	2	1	3	1	0
Okinawa	3	2	7		1		5	0	1	2	1	0	2	4	1	4	1	2	2	0	3	1
total	834	779	777		599		528	533	558	467	394	395	364	398	357	329	360	328	309	264	303	299

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)

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#### Fatal accidents in other sand and stone products in Japan in 1999-2020

other sand and stone products industry Code No.010909

#### Type of fatal accidents in other sand and stone products 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	4	0	2	3	2	3	1	3	1	0	3	4	0	2	1	2	2	1	0	1	1	1
falling to same level	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
crash	0	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	0	0	1	1	0	1	0	0	0	0	0	1	0	1	0	1	2	0	0	0	0	0



construction machine	2	1	2	1	0	0	2	0	4	0	1	1	0	3	1	1	0	1	0	0	0	0
metal manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
general machine	1	1	1	2	3	1	0	0	0	1	2	1	1	1	1	2	0	0	0	0	0	0
mobile silviculture machine																	0	0	0	0	0	0
crane	0	0	3	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	1	0	0	0
conveying machine	4	5	3	1	5	4	0	5	4	0	4	6	4	0	1	3	1	1	2	2	1	1
vehicle	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	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
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	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
electric equipment	0	1	0	0	0	0	0	0	0	1	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	0	1	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
other equipments, facilities	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	1	0
temporary buildings, establishments	4	0	0	2	2	2	0	1	1	0	3	2	0	1	1	0	1	0	0	1	1	1
hazards, harmful substances	0	0	0	0	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
materials	1	0	2	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
load	0	0	1	0	0	1	0	1	1	1	0	0	0	1	0	1	0	1	0	0	0	0
natural environment	0	0	0	0	0	0	1	0	0	2	0	1	4	0	0	0	0	0	0	0	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
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	12	10	13	8	14	12	4	9	11	7	11	14	10	8	4	9	6	3	3	4	3	2











stone, sand, substance	1	0	2	0	1	0	0	0	0	0	0	0	0	0	0	1	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	0	0	1	0	0	0	0	1	1	0	0	0	0	1	0	1	0	1	0	0	0	0
machine/equipment as load	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
natural ground, rock	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
standing tree	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
water	0	0	0	0	0	0	0	0	0	2	0	0	4	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
other environments	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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
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	12	10	13	8	14	12	4	9	11	7	11	14	10	8	4	9	6	3	3	4	3	2

#### Workers age of fatal accidents in other sand and stone products 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	1	0	0	0	0	0	0	0	0	0	0
20-29	0	1	1	0	0	1	0	2	1	1	0	1	0	0	0	1	0	1	1	0	0	0
30-39	1	3	3	0	0	2	0	1	2	1	2	3	3	0	0	4	0	2	0	0	0	0
40-49	2	1	2	0	3	1	0	1	2	2	2	2	0	1	0	2	1	1	0	2	1	1
50-59	6	4	3	3	6	2	1	1	3	1	5	3	2	5	2	2	0	0	1	0	1	1
60 years old or more	3	0	4	5	5	6	3	4	3	2	2	4	5	2	2	1	4	0	1	1	1	0
total	12	10	13	8	14	12	4	9	11	7	11	14	10	8	4	9	6	3	3	4	3	2

#### Workers' number of workplace of fatal accidents in other sand and stone products 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	3	3	5	4	5	8	1	4	2	3	2	9	8	4	2	3	2	1	2	1	1	1

10-29	8	5	5	4	8	1	3	3	5	1	6	3	1	2	0	4	2	1	1	2	2	1
30-49	0	2	3	0	1	2	0	1	2	0	2	1	0	1	1	1	0	0	0	0	0	0
50-99	1	0	0	0	0	0	0	1	0	2	1	1	0	0	1	0	2	0	0	1	0	0
100-299	0	0	0	0	0	1	0	0	2	1	0	0	1	1	0	1	0	1	0	0	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	12	10	13	8	14	12	4	9	11	7	11	14	10	8	4	9	6	3	3	4	3	2

Month of fatal accidents in other sand and stone products 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	1	2	1	0	2	3	0	1	1	1	1	2	0	2	0	1	0	0	0	0	0	0
February	0	0	1	0	1	0	1	0	0	0	1	0	0	3	1	3	1	1	0	0	0	0
March	2	1	3	1	1	1	0	0	0	0	1	3	4	0	0	1	0	0	1	1	1	0
April	0	0	1	0	1	2	1	1	3	2	0	1	0	1	0	0	0	0	0	0	0	2
May	1	0	1	0	1	0	0	1	1	1	1	0	0	1	0	0	1	0	0	0	0	0
June	1	2	0	2	0	2	2	2	1	2	2	1	3	0	2	0	1	1	0	1	0	0
July	1	1	1	0	1	0	0	0	3	0	1	2	2	0	0	1	2	0	2	1	0	0
August	2	0	1	0	0	0	0	1	0	0	0	3	0	0	0	1	0	0	0	0	0	0
September	2	3	0	2	1	1	0	1	0	0	1	0	0	0	1	0	1	0	0	0	2	0
October	1	0	1	0	0	0	0	0	2	1	1	1	1	0	0	1	0	0	0	0	0	0
November	1	1	3	1	4	2	0	2	0	0	1	0	0	1	0	0	0	1	0	1	0	0
December	0	0	0	2	2	1	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0
total	12	10	13	8	14	12	4	9	11	7	11	14	10	8	4	9	6	3	3	4	3	2

Prefecture of fatal accidents in other sand and stone products 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	1	1	0	0	1	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Aomori	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Iwate	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Miyagi	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0
Akita	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Yamagata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Fukushima	0	1	0	0	1	0	1	1	0	0	0	0	1	0	0	0	1	0	0	0	0	1
Ibaraki	0	0	0	1	0	0	0	0	0	1	0	0	1	0	1	1	0	0	0	0	0	0



Oita	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	
Miyazaki	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	
Kagoshima	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Okinawa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
total	12	10	13	8	14	12	4	9	11	7	11	14	10	8	4	9	6	3	3	4	3	2

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

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