

Industrial accidents in quarrying in Japan in 1999-2020

quarrying industry Code No.020201

Type of accidents in quarrying 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	74	57	63	44	55	41	48	47	48	36	53	33	33	31	41	54	34	25	36	37	33	38
falling to same level	34	20	21	18	19	10	16	19	12	17	13	10	17	14	16	15	9	15	11	14	14	14
crash	29	9	13	20	13	11	14	15	20	5	7	10	5	5	8	6	8	7	4	9	5	3
struck by flying or falling object	34	32	32	29	23	15	18	27	15	16	9	16	11	11	16	18	9	6	11	6	7	10
collapse	11	15	9	11	11	7	12	4	9	4	3	4	4	4	2	5	3	1	6	0	3	4
crashed by	18	13	20	15	17	13	17	17	9	9	6	13	5	7	7	4	9	5	9	9	9	6
caught in/between	65	66	55	40	51	44	43	34	45	31	27	20	26	28	38	29	23	34	32	23	19	25
cut	6	5	7	8	1	2	3	1	4	4	4	1	1	1	2	2	2	2	4	2	3	2
injury to the sole of the foot	1	0	1	-	1	-	0	0	1	0	0	0	0	0	0	1	0	0	1	1	1	0
drown	0	0	0	-	0	-	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
contact to high/low-temperature	12	5	0	1	4	4	6	0	1	0	1	1	2	0	2	0	0	3	1	1	3	4
contact to harmful substance	0	0	1	-	1	-	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	1
electric shock	0	1	2	-	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
explosion	2	0	2	-	0	-	0	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0
burst	0	2	0	1	2	-	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
fire	0	1	0	-	0	-	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
traffic accident (public road)	5	4	6	-	1	-	1	2	1	2	2	0	2	0	3	2	1	0	3	0	1	1
traffic accident (others)	0	0	1	2	0	1	0	1	0	0	0	1	0	1	1	1	0	0	0	0	0	0
reaction to motion/improper motion	15	13	15	10	8	12	12	7	7	10	8	8	6	3	4	4	12	4	5	8	9	9
others	1	2	0	1	1	1	1	0	2	1	2	2	2	0	1	0	2	0	1	0	0	0

unclassifiable	0	0	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	307	245	248	200	208	162	193	174	175	135	135	120	116	105	142	142	113	102	126	113	107	118

Causal agents (middle) of industrial accidents in quarrying 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	-	1	1	2	0	0	0	0	1	0	0	0	0	0	1	0	0
power transmission mechanism	6	4	4	4	3	2	3	4	5	4	1	1	3	3	3	3	5	5	1	4	0	4
woodworking machine	0	3	0	3	1	-	2	0	0	0	1	1	0	0	0	1	0	1	0	0	0	0
construction machine	42	28	48	22	23	16	31	23	21	17	21	20	9	17	19	16	16	8	17	14	13	17
metal manufacturing machine	1	2	2	2	1	1	0	1	2	2	0	0	0	2	3	0	0	1	1	0	0	0
general machine	26	19	23	10	11	16	12	15	17	9	7	4	4	5	13	4	5	7	13	5	4	9
mobile silviculture machine																	0	0	1	0	0	0
crane	2	5	6	6	2	1	2	3	3	3	0	3	2	3	2	4	2	2	4	1	5	4
conveying machine	63	67	56	45	55	42	54	41	37	32	50	29	24	36	41	36	27	35	41	29	31	35
vehicle	2	3	2	-	5	-	1	3	1	3	0	0	1	0	0	2	1	1	2	1	3	2
pressure vessel	0	0	0	-	0	-	1	0	0	0	0	0	0	0	0	0	1	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	0	0
welding equipment	5	1	1	1	1	-	2	1	0	0	1	0	1	0	1	1	0	0	0	0	0	1
kiln, caldron	1	0	0	-	0	-	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
electric equipment	0	2	1	-	0	3	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
human power machine, tools	15	7	10	9	4	6	5	8	6	4	2	3	5	2	5	4	3	3	4	3	4	1
tools	10	4	9	12	11	11	13	7	6	10	7	4	5	3	5	4	4	5	4	7	7	3
other equipments, facilities	6	6	3	6	9	5	2	3	3	6	4	4	5	2	7	2	1	1	2	0	7	2
temporary buildings,	52	26	28	19	26	17	19	24	30	18	17	20	17	9	20	31	20	14	15	30	18	12

establishments																						
hazards, harmful substances	4	3	2	-	2	3	2	0	0	0	0	1	1	1	0	0	0	3	3	2	0	0
materials	36	24	21	34	22	19	21	22	24	13	7	12	13	8	10	12	6	10	5	6	4	5
load	1	4	3	-	3	1	1	0	3	2	2	4	2	0	1	1	0	0	0	1	2	3
natural environment	30	30	24	21	23	18	15	16	8	9	11	10	21	10	11	19	15	3	12	6	5	16
other causal agent	2	1	1	2	0	1	2	1	2	0	0	0	1	1	1	0	1	0	0	0	0	1
no causal agent	3	6	4	4	6	-	2	1	4	3	4	3	2	1	0	2	5	3	1	3	4	3
unclassifiable	0	0	0	-	0	-	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
total	307	245	248	200	208	162	193	174	175	135	135	120	116	105	142	142	113	102	126	113	107	118

Causal agents (small) of industrial accidents in quarrying 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		1	1	2	0	0	0	0	1	0	0	0	0	0	1	0	0
power transmission mechanism			4		3		3	4	5	4	1	1	3	3	3	3	5	5	1	4	0	4
circular sawing machine			0		1		1	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw			0		0		1	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	1	0	0	0	0	0	0	0	0	0	0
leveling, transporting or loading machine			16		9		13	11	10	6	6	5	7	5	5	5	5	1	9	3	4	7
excavating machine			24		9		13	10	9	9	12	13	1	12	10	10	10	4	6	8	8	8



machine																0	0	0	0	0	0
other mobile silviculture machine																0	0	0	0	0	0
crane			2	2	1	3	2	1	0	1	1	2	1	0	0	0	2	1	3	4	
mobile crane			1	0	0	0	1	1	0	1	1	1	0	4	2	2	0	0	2	0	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
lumberyard equipment, logging cableway			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
simple skyline yarding equipment																0	0	0	0	0	
other powered crane			3	0	1	0	0	1	0	1	0	0	1	0	0	0	2	0	0	0	
truck			26	25	18	21	10	19	25	12	13	15	20	16	14	11	17	14	14	18	
forklift			0	1	1	1	1	0	2	0	1	1	1	0	1	0	1	0	0	1	
railway equipment			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
conveyor			25	26	32	16	24	13	21	15	9	19	19	18	11	18	22	13	14	15	
loader			3	2	3	2	1	0	1	0	0	1	0	1	0	3	1	2	1	1	
straddle carrier			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
rough terrain hauler			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other powered conveying machines			2	0	0	1	1	0	1	2	1	0	1	1	1	3	0	0	2	0	
cars, bus, motorcycle			1	5	1	3	1	2	0	0	1	0	0	2	0	1	2	1	3	1	
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	1	0	0	0	0	0	0	1	0	0	0	0	1	
boiler			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
pressure vessel			0	0	1	0	0	0	0	0	0	0	0	0	1	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
gas welding			0	1	1	0	0	0	1	0	1	0	1	1	0	0	0	0	0	1	

equipment																					
arc welding equipment			1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other welding equipment			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
kiln, caldron			0	0	0	0	1	0	0	0	0	0	0	0	1	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	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	1	0	0	0	0	0	0	0	0	0
electric power facilities			1	0	1	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
human power cranes			0	0	0	0	1	0	0	0	0	0	2	1	0	1	0	0	0	0	0
human power hauling equipment			0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
human power machine			0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0
hand tool			10	4	4	8	5	4	1	3	5	2	2	3	3	2	4	3	2	1	
ladder			6	1	6	4	2	4	3	3	4	3	4	0	2	3	3	3	5	3	
slinging tool			2	3	2	2	1	3	2	0	0	0	1	1	1	1	0	3	1	0	
other tools			1	7	5	1	3	3	2	1	1	0	0	3	1	1	1	1	1	0	
other equipment, facilities			3	9	2	3	3	6	4	4	5	2	7	2	1	1	2	0	7	2	
scaffolding			1	1	2	2	3	0	0	2	2	1	0	3	0	1	0	1	0	2	
timbering			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
stairs, landing stage			3	7	1	4	4	4	4	1	2	3	3	3	2	0	1	4	4	3	
opening			1	2	0	1	3	0	1	1	1	0	0	1	0	0	1	0	0	0	
roof, beam, haze, crossbeam, principal rafter			2	1	2	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	
working platform, boot board			6	3	4	4	1	3	1	2	0	1	4	5	6	5	3	7	4	1	
passage			9	6	8	6	6	5	4	9	7	3	8	8	9	5	9	10	3	3	
building, establishment			4	5	2	5	11	4	1	3	4	1	4	5	2	2	0	4	1	3	



19 years old or less	2	1	0	4	4	2	5	2	1	0	0	0	0	0	4	1	0	2	0	0	1	0
20-29	36	29	25	14	15	12	10	13	12	10	6	7	7	4	16	8	6	4	6	6	7	7
30-39	43	30	27	28	30	28	27	37	18	23	22	20	23	16	18	28	18	15	12	14	7	9
40-49	57	50	61	48	43	36	39	36	44	25	30	27	20	33	27	33	27	26	35	25	32	28
50-59	114	90	92	64	75	60	83	64	67	44	41	33	39	31	34	35	33	21	39	26	32	34
60 years old or more	55	45	43	42	41	24	29	22	33	33	36	33	27	21	43	37	29	34	34	42	28	40
total	307	245	248	200	208	162	193	174	175	135	135	120	116	105	142	142	113	102	126	113	107	118

#### Workers' number of workplace of industrial accidents in quarrying 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	120	78	70	74	79	62	82	61	67	44	50	51	44	36	53	48	42	29	41	30	17	39
10-29	144	123	139	98	109	82	87	96	90	77	76	55	54	56	68	73	54	61	66	63	62	56
30-49	37	38	32	23	16	15	18	17	17	12	7	12	17	11	18	17	15	10	13	17	22	18
50-99	3	6	7	5	4	3	3	0	1	1	2	2	1	2	3	3	2	1	6	3	3	3
100-299	3	0	0	—	0	0	2	0	0	1	0	0	0	0	0	1	0	1	0	0	3	2
300 workers or more	0	0	0	—	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	307	245	248	200	208	162	193	174	175	135	135	120	116	105	142	142	113	102	126	113	107	118

#### Month of industrial accidents in quarrying 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	21	16	18	15	11	16	16	11	18	11	10	11	9	8	12	8	5	10	8	11	9	9
February	24	20	24	16	22	15	18	12	11	9	6	3	17	8	9	18	14	8	11	5	8	7
March	19	25	29	17	11	15	17	13	13	16	10	14	10	13	9	11	7	14	9	15	8	6
April	29	19	17	17	19	7	13	15	19	12	8	7	6	6	13	15	7	8	11	6	9	15
May	30	20	21	13	24	13	13	15	15	12	9	11	5	7	15	9	9	5	13	12	8	5
June	23	20	17	17	17	16	19	13	6	13	15	7	18	10	10	16	12	13	12	13	11	11
July	30	19	19	11	16	14	19	14	9	14	14	12	6	9	11	7	9	13	14	7	7	9
August	27	18	15	17	21	18	19	23	17	10	13	13	6	10	11	8	11	8	11	7	5	6
September	29	18	19	16	18	12	10	14	21	11	17	14	11	8	7	7	11	2	9	10	12	13
October	20	24	30	20	13	16	24	15	14	11	16	8	9	12	11	16	8	8	16	8	14	10
November	25	23	23	22	18	9	17	15	16	9	8	11	14	10	16	15	8	6	8	10	7	12
December	30	23	16	19	18	11	8	14	16	7	9	9	5	4	18	12	12	7	4	9	9	15

total	307	245	248	200	208	162	193	174	175	135	135	120	116	105	142	142	113	102	126	113	107	118
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Prefecture of industrial accidents in quarrying 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	18	14	14		10		14	7	7	4	5	9	10	5	8	11	5	4	15	6	10	8
Aomori	6	3	7		9		3	1	0	3	4	3	1	2	2	2	0	2	2	0	2	2
Iwate	8	2	6		4		5	4	2	4	3	3	1	2	4	3	2	6	5	1	1	2
Miyagi	5	5	3		2		6	8	0	2	5	1	4	6	6	8	6	3	6	4	3	2
Akita	5	7	2		4		3	2	4	0	2	1	2	3	4	4	1	2	1	3	4	1
Yamagata	6	6	9		6		5	5	2	3	1	3	1	1	3	5	3	3	2	0	4	2
Fukushima	7	12	2		11		11	4	5	5	1	4	2	3	6	3	6	5	3	7	2	2
Ibaraki	6	4	5		8		5	3	6	4	3	2	4	5	2	1	4	3	3	7	4	6
Tochigi	4	3	1		5		5	5	7	6	4	2	9	4	5	2	3	4	3	6	1	4
Gunma	4	1	5		4		0	2	2	2	3	1	1	1	3	1	0	0	1	1	1	1
Saitama	4	3	1		0		1	1	1	1	1	1	0	0	1	0	0	0	2	1	1	0
Chiba	2	0	0		0		0	0	0	1	1	0	1	1	0	0	1	1	0	0	0	0
Tokyo	8	7	3		1		3	4	4	1	3	1	3	4	2	2	2	1	1	2	0	2
Kanagawa	3	2	6		2		0	2	2	3	1	1	0	1	2	4	2	0	2	0	1	2
Niigata	3	4	2		0		0	2	1	1	0	0	0	0	1	0	0	0	0	1	0	0
Toyama	1	1	2		0		1	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0
Ishikawa	4	2	5		5		5	0	1	1	2	1	0	0	4	2	2	0	1	0	0	1
Fukui	5	4	1		1		2	0	2	0	0	1	1	1	1	0	2	1	3	2	0	1
Yamanashi	2	1	0		2		1	0	0	1	1	1	2	1	0	0	0	1	1	1	2	2
Nagano	7	4	2		3		2	3	5	3	6	3	1	0	3	1	4	1	1	3	4	5
Gifu	10	6	6		7		5	6	5	3	1	1	2	1	2	1	3	4	1	2	2	3
Shizuoka	4	4	1		8		4	3	4	8	6	2	1	7	1	5	3	1	5	1	2	1
Aichi	9	10	14		10		5	5	5	9	4	5	5	11	6	6	2	4	1	7	6	7
Mie	11	17	17		9		4	3	0	4	4	4	1	1	7	5	5	4	4	3	5	2
Shiga	0	3	1		0		2	2	2	0	1	1	1	0	2	0	1	1	1	0	1	1
Kyoto	3	3	4		8		4	2	4	2	1	1	1	2	6	5	3	2	6	1	0	5
Osaka	3	3	7		2		3	0	1	3	1	3	3	1	1	0	4	2	5	1	2	3
Hyogo	16	11	16		6		11	8	10	7	7	12	8	8	3	8	4	2	3	1	2	8
Nara	1	0	0		2		2	1	2	1	1	0	0	2	1	1	2	2	0	0	4	1
Wakayama	4	1	2		1		2	2	0	1	0	0	0	0	0	0	1	0	0	0	0	0
Tottori	3	3	2		4		2	1	2	1	1	1	1	0	1	1	0	2	1	1	0	1

Shimane	8	5	3		3		6	1	6	3	4	2	3	2	1	0	1	3	0	4	1	0
Okayama	7	9	9		8		7	9	10	7	6	4	6	5	9	7	5	7	9	5	4	5
Hiroshima	15	14	11		6		6	5	11	1	5	3	4	3	8	6	4	1	5	7	5	3
Yamaguchi	5	5	5		5		2	8	4	1	4	5	1	2	3	4	4	3	1	2	0	3
Tokushima	1	2	1		1		0	2	0	1	4	1	0	1	0	2	1	1	4	1	1	2
Kagawa	18	7	9		8		11	5	7	7	5	3	0	0	2	4	2	5	2	3	4	3
Ehime	14	10	14		15		11	12	12	4	9	9	12	5	11	12	9	4	4	6	2	3
Kochi	5	0	4		1		2	0	3	2	1	2	1	0	0	0	0	1	1	0	2	2
Fukuoka	16	9	7		5		3	12	6	7	6	5	8	3	4	4	4	4	3	5	4	2
Saga	5	2	7		3		1	5	2	4	2	4	1	2	1	2	4	1	1	4	2	2
Nagasaki	10	6	7		3		7	5	5	4	5	2	4	0	4	6	2	2	4	2	7	5
Kumamoto	17	19	9		7		11	12	6	3	5	7	4	5	5	3	2	2	5	4	6	6
Oita	5	4	2		3		3	3	4	3	2	2	1	1	2	4	1	3	0	1	2	2
Miyazaki	4	1	8		0		0	0	0	1	3	0	1	0	1	1	1	0	2	1	2	2
Kagoshima	5	6	5		6		6	9	13	3	1	3	4	3	3	4	2	4	5	4	1	3
Okinawa	0	0	1		0		1	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0
total	307	245	248		208		193	174	175	135	135	120	116	105	142	142	113	102	126	113	107	118

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 quarrying in Japan in 1999-2020

quarrying industry Code No.020201

Type of fatal accidents in quarrying 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	1	7	5	2	1	3	1	4	3	6	2	3	2	2	3	2	1	2	1	2	1
falling to same level	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
crash	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
struck by flying or	4	2	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0



construction machine	4	2	4	5	1	2	2	1	1	2	2	1	4	0	2	2	2	1	3	0	1	1
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	4	2	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0
mobile silviculture machine																	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
conveying machine	3	2	3	3	3	2	3	6	5	2	5	1	1	1	1	1	2	2	3	0	3	3
vehicle	1	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
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	1	0	0	0	0	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	0	0
electric equipment	0	0	0	0	0	1	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	1	1	0	0	1	0	0	0	0	0	0	0	0	0	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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0
hazards, harmful substances	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
materials	1	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
load	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
natural environment	4	2	3	5	2	1	4	1	0	1	0	0	3	1	1	2	0	0	1	1	1	1
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	1	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	15	13	15	13	6	7	11	11	7	5	7	2	8	2	5	8	5	3	8	2	6	6









stone, sand, substance	1	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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	0	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	4	2	3	5	2	1	4	1	0	1	0	0	1	1	0	2	0	0	1	1	1	1
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	0	0	0	2	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	0	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	1	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	1	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	15	13	15	13	6	7	11	11	7	5	7	2	8	2	5	8	5	3	8	2	6	6

Workers age of fatal accidents in quarrying 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	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20-29	1	2	2	0	1	0	0	2	0	0	0	0	2	0	1	2	0	0	0	0	0	1
30-39	1	0	1	2	0	2	0	2	1	1	1	0	0	0	1	0	0	0	1	0	0	
40-49	1	2	2	5	2	0	4	1	1	0	3	0	2	0	1	0	1	2	0	1	2	
50-59	7	6	6	4	2	4	5	5	3	2	1	1	2	1	1	2	3	0	4	0	2	1
60 years old or more	5	3	4	2	1	1	2	0	2	2	2	1	2	1	2	3	2	2	2	1	3	2
total	15	13	15	13	6	7	11	11	7	5	7	2	8	2	5	8	5	3	8	2	6	6

Workers' number of workplace of fatal accidents in quarrying 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	2	7	4	4	2	1	3	2	2	1	2	0	1	1	1	3	2	0	5	1	2	4

10-29	12	5	9	6	4	6	7	9	5	4	4	2	6	1	4	4	2	2	2	1	4	2
30-49	1	1	2	3	0	0	1	0	0	0	1	0	1	0	0	1	1	1	0	0	0	0
50-99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
100-299	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	15	13	15	13	6	7	11	11	7	5	7	2	8	2	5	8	5	3	8	2	6	6

Month of fatal accidents in quarrying 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	3	1	0	1	2	0	0	0	0	0	0	0	1	0	0	1	1	0	1	0
February	0	1	2	1	2	0	1	0	0	0	0	0	1	0	0	1	1	1	1	0	0	1
March	0	1	2	1	0	1	0	0	0	1	1	0	2	0	1	0	0	0	0	0	1	0
April	1	1	0	1	0	1	1	4	2	0	0	1	0	0	0	2	0	1	0	0	0	0
May	2	0	0	1	0	1	1	0	1	1	0	0	1	1	0	1	0	0	1	0	0	1
June	2	0	1	0	1	0	1	1	0	1	4	0	2	0	0	0	1	0	1	0	0	1
July	1	0	2	1	0	0	2	2	0	1	1	1	0	1	1	0	1	0	1	0	0	0
August	3	1	1	0	1	3	0	1	1	0	0	0	0	0	0	1	0	0	0	1	0	0
September	0	0	0	2	0	0	1	1	0	0	0	0	0	0	0	0	2	0	1	1	2	1
October	1	1	3	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	2	0	2	0
November	2	2	1	3	0	0	1	0	1	0	0	0	2	0	0	2	0	0	0	0	0	1
December	2	4	0	1	1	0	0	1	2	1	1	0	0	0	1	1	0	0	0	0	0	1
total	15	13	15	13	6	7	11	11	7	5	7	2	8	2	5	8	5	3	8	2	6	6

Prefecture of fatal accidents in quarrying 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	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Aomori	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Iwate	0	1	0	1	0	0	0	1	1	0	1	0	1	0	1	1	0	0	0	0	0	0
Miyagi	1	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Akita	0	1	0	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0
Yamagata	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Fukushima	1	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	2	0	0	0
Ibaraki	0	1	0	0	1	2	2	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0



Oita	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Miyazaki	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Kagoshima	0	1	0	2	0	1	0	0	2	0	0	1	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	0	0	0	0	0	0	0	0
total	15	13	15	13	6	7	11	11	7	5	7	2	8	2	5	8	5	3	8	2	6	6

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

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