

Industrial accidents in quarrying in Japan in 1999-2020

quarrying industry Code No.0202

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	115	99	107	77	88	75	87	76	78	71	74	55	60	49	61	78	62	48	56	61	59	65
falling to same level	50	44	39	29	31	17	29	29	23	28	26	18	31	29	26	32	18	21	21	24	24	20
crash	38	29	19	31	18	17	20	23	23	6	11	17	10	6	13	7	11	10	7	17	9	5
struck by flying or falling object	51	52	52	47	38	23	28	39	27	28	21	24	19	16	22	23	16	15	12	13	11	18
collapse	20	18	16	18	12	10	14	9	14	6	4	6	6	6	2	5	6	2	8	4	5	4
crashed by	30	20	20	23	27	18	25	28	18	15	11	22	7	9	11	8	11	8	12	12	12	11
caught in/between	95	107	98	85	90	87	86	68	76	54	46	41	47	52	58	59	43	45	46	38	38	38
cut	6	9	13	16	2	7	3	5	7	5	4	1	1	4	2	5	3	3	8	5	5	6
injury to the sole of the foot	2	0	1	-	1	-	1	0	2	0	0	0	0	0	0	1	0	0	1	1	1	0
drown	0	1	0	-	1	1	0	1	0	0	0	0	1	0	1	1	0	1	0	0	0	0
contact to high/low-temperature	16	5	6	3	5	5	7	0	3	0	1	2	2	0	2	0	1	3	3	1	4	6
contact to harmful substance	2	0	1	-	1	-	0	0	0	0	0	1	0	0	0	2	0	0	1	1	1	1
electric shock	0	2	2	-	0	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
explosion	2	0	4	-	0	-	0	0	0	0	0	0	1	2	0	0	0	0	1	2	0	0
burst	0	2	0	1	2	-	0	1	0	0	0	0	0	0	2	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)	8	12	13	7	4	1	4	5	7	3	6	0	5	2	4	2	5	5	7	3	3	2
traffic accident (others)	1	0	1	2	0	1	0	1	0	0	0	1	0	1	1	1	2	0	0	0	0	0
reaction to motion/improper motion	29	22	19	14	15	23	17	10	10	12	11	11	12	7	9	9	13	5	9	9	14	12
others	2	5	0	1	2	1	2	1	3	1	2	2	2	0	1	0	4	1	2	1	0	0

unclassifiable	0	0	1	-	0	-	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
total	467	428	412	354	337	288	325	296	292	229	217	201	204	183	215	235	196	167	194	192	186	189

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	1	0	-	1	1	2	0	0	0	0	2	0	0	0	0	0	1	0	0
power transmission mechanism	9	8	9	7	6	5	8	6	7	6	1	1	3	3	4	4	7	7	3	4	3	6
woodworking machine	0	5	3	5	1	2	2	0	2	0	1	1	1	1	0	3	1	1	0	1	1	1
construction machine	62	46	77	34	39	33	50	35	31	24	29	31	22	24	29	27	23	16	23	28	21	28
metal manufacturing machine	1	2	2	5	2	4	0	2	2	3	1	0	1	2	3	1	1	1	1	1	0	0
general machine	34	34	37	28	18	23	23	24	32	13	13	15	8	8	16	9	9	9	16	12	7	16
mobile silviculture machine																	0	0	1	0	0	0
crane	6	6	9	11	3	2	2	6	8	5	2	3	6	3	2	8	4	5	5	1	6	8
conveying machine	101	111	89	92	98	84	84	84	69	68	80	48	49	59	67	63	62	57	63	54	54	53
vehicle	5	8	6	1	6	-	6	5	4	4	0	2	3	3	2	3	3	4	3	3	4	2
pressure vessel	0	0	0	-	0	-	1	0	0	0	0	1	0	0	0	0	1	0	0	1	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	6	1	1	1	1	-	2	1	0	0	1	0	1	0	1	1	0	0	0	0	0	2
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	3	1	-	0	3	1	0	1	0	0	1	0	1	0	1	0	0	1	0	0	0
human power machine, tools	19	13	13	14	8	7	7	11	7	6	4	5	6	3	6	8	6	6	5	4	7	2
tools	19	10	15	21	16	13	21	13	13	16	11	6	8	9	10	6	8	7	11	11	12	8
other equipments, facilities	8	13	6	7	13	8	6	6	7	7	6	7	8	3	8	4	3	2	2	1	8	2
temporary buildings,	81	58	56	40	45	37	43	41	42	30	30	31	36	21	34	50	30	24	28	40	36	22

establishments																						
hazards, harmful substances	4	3	3	-	2	5	2	0	0	0	0	1	1	3	0	1	0	3	3	2	2	1
materials	51	43	40	47	34	28	36	32	34	28	13	20	17	16	13	16	9	14	9	14	7	8
load	4	7	5	1	5	2	3	1	6	2	3	5	2	0	1	1	1	0	1	1	3	3
natural environment	42	45	32	30	28	28	20	23	16	13	15	16	26	16	16	23	20	7	15	8	10	20
other causal agent	5	2	1	2	0	1	3	1	3	0	0	0	2	1	1	0	2	0	1	0	0	2
no causal agent	8	10	6	6	12	3	3	4	5	4	7	6	4	5	2	5	5	4	3	5	5	5
unclassifiable	1	0	1	1	0	-	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
total	467	428	412	354	337	288	325	296	292	229	217	201	204	183	215	235	196	167	194	192	186	189

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	2	0	0	0	0	0	1	0	0
power transmission mechanism			9		6		8	6	7	6	1	1	3	3	4	4	7	7	3	4	3	6
circular sawing machine			1		1		1	0	0	0	1	0	0	0	0	1	1	1	0	1	1	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			2		0		1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	1
other woodworking machines			0		0		0	0	1	0	0	1	1	0	0	1	0	0	0	0	0	0
leveling, transporting or loading machine			34		15		23	17	13	9	11	11	12	8	9	9	8	4	12	11	8	15
excavating machine			34		18		20	15	16	13	15	17	9	15	15	15	14	8	8	11	12	10

machine																0	0	0	0	0	0
other mobile silviculture machine																0	0	0	0	0	0
crane			2	3	1	4	2	3	0	1	2	2	1	2	1	2	3	1	3	4	
mobile crane			1	0	0	2	5	1	1	1	4	1	0	6	3	2	0	0	3	2	
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			6	0	1	0	1	1	1	1	0	0	1	0	0	1	2	0	0	2	
truck			40	37	27	37	23	40	40	21	24	23	35	26	37	27	28	22	26	31	
forklift			1	3	1	1	2	0	2	0	1	1	1	0	2	0	1	0	1	1	
railway equipment			0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
conveyor			43	53	51	42	39	28	33	25	21	33	30	35	21	24	30	25	22	20	
loader			3	2	4	3	2	0	3	0	2	2	0	1	1	3	3	5	3	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	1	1	0	0	
other powered conveying machines			2	2	1	1	3	0	2	2	1	0	1	1	1	3	0	1	2	0	
cars, bus, motorcycle			4	6	5	5	4	2	0	1	3	2	1	3	1	4	3	2	4	1	
railway vehicle			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other vehicles			2	0	1	0	0	2	0	1	0	1	1	0	2	0	0	1	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	1	0	0	
other pressure vessels			0	0	0	0	0	0	0	1	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	2	

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

19 years old or less	3	3	2	5	4	3	5	5	3	0	0	0	0	0	5	3	1	2	0	0	2	0
20-29	54	56	42	26	22	22	18	18	21	15	12	10	9	8	19	10	9	12	8	11	11	11
30-39	60	48	51	54	43	45	51	59	32	37	31	31	39	26	22	37	28	23	18	18	17	16
40-49	96	88	95	72	72	60	61	56	65	43	45	42	40	54	42	49	45	35	49	44	46	40
50-59	165	146	146	121	125	104	127	107	106	79	73	54	60	56	58	66	49	38	54	49	50	50
60 years old or more	89	87	76	76	71	54	63	51	65	55	56	64	56	39	69	70	64	57	65	70	60	72
total	467	428	412	354	337	288	325	296	292	229	217	201	204	183	215	235	196	167	194	192	186	189

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	186	152	133	141	139	125	133	114	117	88	87	86	90	74	81	87	80	55	68	54	42	64
10-29	215	202	214	154	159	130	148	151	138	119	113	92	90	85	100	119	92	87	102	108	103	97
30-49	55	57	50	47	30	25	31	26	32	19	12	19	22	19	27	23	21	20	15	24	32	22
50-99	7	17	13	12	9	7	10	4	2	2	4	3	2	4	6	4	3	3	7	6	3	3
100-299	4	0	2	—	0	1	2	1	3	1	1	1	0	1	1	2	0	2	2	0	6	3
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	467	428	412	354	337	288	325	296	292	229	217	201	204	183	215	235	196	167	194	192	186	189

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	34	29	38	23	26	29	21	20	26	17	23	15	17	14	16	15	13	14	12	16	19	14
February	34	40	36	28	38	32	30	26	26	17	8	7	24	20	15	23	23	14	14	11	15	16
March	28	38	48	32	26	22	24	24	26	23	19	23	18	22	15	19	17	19	16	21	14	14
April	38	35	31	28	27	22	29	23	30	25	14	15	17	14	17	26	10	14	19	11	11	21
May	42	34	30	24	35	20	23	26	23	21	15	19	8	13	23	14	19	11	19	15	11	11
June	45	35	29	34	24	26	30	29	18	21	24	13	32	14	17	24	18	17	18	21	16	14
July	48	36	33	19	26	24	31	23	26	22	23	20	13	14	15	15	15	21	18	14	18	14
August	36	36	25	31	34	25	32	37	26	17	18	19	10	14	17	16	19	12	15	13	10	14
September	49	28	37	36	26	27	20	26	28	17	23	22	17	10	15	17	17	5	16	15	19	18
October	32	41	39	27	21	26	36	21	21	23	24	17	13	17	19	22	12	15	18	21	21	18
November	38	42	41	37	28	16	29	25	21	14	12	16	20	20	21	26	14	13	18	16	16	15
December	43	34	25	35	26	19	20	16	21	12	14	15	15	11	25	18	19	12	11	18	16	20

total	467	428	412	354	337	288	325	296	292	229	217	201	204	183	215	235	196	167	194	192	186	189
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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	43	41	27		25		28	23	21	15	23	22	25	18	23	24	24	14	21	18	24	23
Aomori	8	5	10		10		5	3	3	4	5	5	4	3	2	3	1	3	2	1	4	2
Iwate	12	4	11		7		7	7	6	7	5	6	2	3	5	6	5	7	5	2	2	4
Miyagi	6	6	7		4		10	12	3	3	7	2	6	7	7	13	15	7	8	9	4	3
Akita	9	11	6		7		6	8	4	0	2	3	3	3	5	6	3	2	2	5	6	2
Yamagata	13	18	14		9		8	6	6	4	1	5	5	4	5	5	3	6	4	0	6	5
Fukushima	10	15	4		14		12	8	5	5	2	4	3	4	9	7	6	8	9	11	4	5
Ibaraki	13	13	9		11		11	6	9	9	5	7	6	8	3	4	6	5	5	7	6	10
Tochigi	9	10	10		10		12	10	13	13	7	7	11	8	10	6	3	6	4	8	7	6
Gunma	9	8	10		7		3	3	4	6	4	2	3	2	4	1	0	2	3	2	1	1
Saitama	6	9	1		2		3	1	5	1	1	4	2	1	1	1	0	1	3	3	1	0
Chiba	6	8	3		3		1	3	6	2	2	4	4	3	4	1	2	3	4	5	4	3
Tokyo	8	8	4		2		3	4	5	1	3	1	3	4	2	2	2	1	2	3	0	2
Kanagawa	6	4	8		5		1	4	3	4	1	2	1	1	2	5	2	1	2	1	1	4
Niigata	13	15	13		13		10	11	9	8	3	4	5	10	7	5	6	5	4	6	5	3
Toyama	7	4	9		2		8	1	0	4	5	4	4	1	4	4	3	1	2	3	1	1
Ishikawa	5	2	6		7		6	1	1	1	3	1	4	1	4	2	3	1	3	0	1	2
Fukui	7	10	1		2		2	0	2	0	0	1	2	2	2	1	4	3	4	2	0	3
Yamanashi	9	3	6		7		7	3	6	4	2	4	4	3	2	4	1	1	2	3	2	3
Nagano	18	8	15		11		7	4	10	8	10	6	4	2	5	4	4	2	3	6	10	8
Gifu	14	15	13		13		13	12	10	11	5	3	5	4	2	7	5	8	4	11	6	5
Shizuoka	16	6	8		15		8	12	13	14	16	4	6	11	5	9	4	3	9	7	6	3
Aichi	12	13	17		10		6	6	6	9	6	6	6	12	7	9	2	5	2	7	6	8
Mie	11	29	26		17		10	5	4	8	5	5	3	4	10	10	9	6	4	7	6	5
Shiga	2	3	5		5		2	3	2	1	2	2	3	0	2	0	2	1	1	0	1	2
Kyoto	7	4	8		11		6	3	5	3	1	1	3	3	6	6	5	2	8	2	1	6
Osaka	5	3	7		2		3	0	4	4	1	3	3	3	1	0	5	3	6	2	2	3
Hyogo	21	15	20		6		13	9	12	7	10	13	8	10	6	11	6	3	5	2	7	11
Nara	1	1	0		2		2	4	3	1	1	0	2	2	2	1	4	3	0	0	4	1
Wakayama	4	4	4		2		2	2	2	1	1	0	2	1	2	1	2	3	1	1	1	2
Tottori	3	4	2		5		4	1	2	1	1	2	1	0	1	1	0	2	1	2	0	1

Shimane	9	7	4	5	7	3	7	5	5	4	5	2	2	1	3	3	1	4	2	2
Okayama	9	11	11	8	10	9	12	7	6	4	6	6	9	8	5	7	10	5	4	6
Hiroshima	15	17	12	8	8	6	12	2	6	3	5	3	8	7	5	2	7	8	6	5
Yamaguchi	5	7	7	6	3	8	4	1	4	5	1	3	3	5	5	3	1	2	1	3
Tokushima	1	7	3	3	1	4	2	1	4	1	1	2	1	3	1	1	5	2	3	3
Kagawa	18	7	9	8	11	7	7	7	5	3	0	1	2	4	2	6	4	3	4	3
Ehime	14	11	15	16	17	15	14	8	11	11	13	6	13	13	9	4	4	6	3	4
Kochi	7	1	6	1	3	2	4	2	2	2	1	1	0	1	0	1	1	1	3	2
Fukuoka	18	12	13	7	3	13	6	8	8	6	8	4	5	6	6	5	4	5	5	3
Saga	6	3	7	3	1	5	2	4	2	4	1	2	1	3	4	1	1	4	2	2
Nagasaki	10	6	7	3	7	6	6	4	5	2	5	1	4	6	2	2	4	2	7	5
Kumamoto	20	23	11	10	12	18	8	8	10	10	5	8	5	5	6	5	7	5	11	7
Oita	9	6	4	5	8	8	5	6	2	3	3	1	3	6	4	5	1	2	2	2
Miyazaki	6	3	11	1	3	6	4	3	4	6	2	1	3	3	4	0	4	1	2	2
Kagoshima	7	8	7	7	10	11	15	4	3	4	5	4	5	4	3	4	6	5	2	3
Okinawa	0	0	1	0	2	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0
total	467	428	412	337	325	296	292	229	217	201	204	183	215	235	196	167	194	192	186	189

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.0202

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	7	2	12	6	2	5	4	3	5	3	7	2	6	2	2	4	3	1	5	1	2	1
falling to same level	0	0	0	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	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	2	1	0	0	2	0	0	1	0	0	0	0	0	0	0	0	2	0	0	1

construction machine	7	2	6	6	1	5	4	2	3	3	3	1	6	1	2	5	2	1	3	0	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	1	4	3	0	1	0	0	2	0	0	0	0	0	0	1	1	0	0	0	0	0	0
mobile silviculture machine																	0	0	0	0	0	0
crane	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
conveying machine	4	6	3	4	3	3	4	6	7	3	5	2	2	2	2	2	4	2	5	0	5	3
vehicle	1	0	0	0	1	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	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
other equipments, facilities	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
temporary buildings, establishments	1	1	1	1	0	1	2	0	0	0	0	0	1	1	1	2	1	0	2	0	1	0
hazards, harmful substances	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0
materials	2	2	1	0	1	0	1	2	0	0	0	1	0	0	0	0	0	1	0	0	0	2
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	7	4	5	5	2	3	4	3	0	1	1	0	3	1	2	2	2	1	2	1	2	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	1	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	24	21	23	17	10	14	16	15	11	7	9	4	12	6	8	13	10	6	13	2	10	8

stone, sand, substance	1	2	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	2
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	7	4	5	5	2	2	4	2	0	1	1	0	1	1	0	2	0	0	1	1	2	1
standing tree	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
water	0	0	0	0	0	1	0	1	0	0	0	0	2	0	1	0	0	1	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	1	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	1	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	24	21	23	17	10	14	16	15	11	7	9	4	12	6	8	13	10	6	13	2	10	8

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	2	0	0	2	0	0	0	0	2	1	1	2	0	0	0	0	0	1
30-39	3	1	2	2	0	4	2	2	1	1	2	0	0	0	0	1	0	0	0	1	1	0
40-49	2	5	2	8	4	0	4	1	1	1	3	0	3	1	1	0	1	1	2	0	1	2
50-59	11	8	9	4	2	6	7	8	7	3	1	2	2	2	1	4	5	3	4	0	3	1
60 years old or more	7	5	8	3	2	4	3	1	2	2	3	2	5	2	5	6	4	2	7	1	5	4
total	24	21	23	17	10	14	16	15	11	7	9	4	12	6	8	13	10	6	13	2	10	8

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	5	12	5	5	3	6	5	3	4	1	2	2	4	3	3	6	4	3	9	1	3	5

10-29	17	8	13	9	5	8	10	11	6	6	6	2	7	2	5	6	5	2	3	1	6	3
30-49	2	1	4	3	2	0	1	0	1	0	1	0	1	1	0	1	1	1	0	0	1	0
50-99	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
100-299	0	0	1	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	24	21	23	17	10	14	16	15	11	7	9	4	12	6	8	13	10	6	13	2	10	8

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	3	4	3	1	0	2	2	2	0	0	1	0	0	0	2	0	0	1	1	0	1	0
February	0	2	4	2	3	0	3	0	0	0	0	0	1	0	1	1	2	1	2	0	1	1
March	0	1	3	2	0	1	0	0	0	1	1	0	2	1	1	2	1	0	0	0	2	0
April	2	3	0	1	1	2	2	4	2	0	0	1	0	1	0	2	1	1	2	0	0	1
May	2	0	0	1	0	2	2	0	1	2	0	1	1	1	0	1	0	0	1	0	0	1
June	5	1	1	0	1	0	1	1	1	1	4	0	3	1	0	0	1	1	2	0	0	1
July	1	0	2	1	1	0	2	3	2	1	1	1	1	1	1	1	2	0	1	0	1	0
August	3	2	1	2	1	4	0	1	1	1	0	0	1	0	0	1	1	1	0	1	0	0
September	2	0	2	2	0	2	2	1	1	0	0	0	1	0	0	0	2	0	1	1	2	1
October	1	1	4	1	1	0	1	2	0	0	0	1	0	0	2	1	0	0	2	0	3	0
November	3	3	2	3	1	1	1	0	1	0	0	0	2	0	0	3	0	1	1	0	0	2
December	2	4	1	1	1	0	0	1	2	1	2	0	0	1	1	1	0	0	0	0	0	1
total	24	21	23	17	10	14	16	15	11	7	9	4	12	6	8	13	10	6	13	2	10	8

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	2	1	3	1	1	1	1	1	0	1	0	0	3	0	1	1	2	1	2	0	0	1
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	1	0	1	0	0	0	1	0	0	0	0	0
Akita	3	1	0	1	0	0	0	1	0	0	1	0	0	0	1	1	0	0	0	0	0	0
Yamagata	0	1	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Fukushima	1	1	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0	0	2	0	0	0
Ibaraki	0	2	0	0	1	2	2	0	0	0	0	1	1	0	0	1	0	0	1	1	0	0

Oita	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0
Miyazaki	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1
Kagoshima	0	1	0	2	0	1	0	1	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	24	21	23	17	10	14	16	15	11	7	9	4	12	6	8	13	10	6	13	2	10	8

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

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