

## Industrial accidents in cement products in Japan in 1999-2020

cement products industry Code No.010901

### Type of accidents in cement 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	264	248	275	223	205	213	204	203	196	193	139	144	148	149	160	191	141	158	167	168	166	174
falling to same level	151	141	169	132	129	101	117	92	93	97	71	72	69	68	104	87	76	84	78	100	88	78
crash	75	73	82	69	50	61	60	57	55	39	38	25	28	41	35	42	39	40	29	41	38	38
struck by flying or falling object	171	148	154	147	112	102	93	97	93	82	65	61	58	58	69	74	41	49	46	59	48	53
collapse	61	73	58	51	40	38	32	46	35	36	18	33	21	26	33	20	26	27	25	19	16	21
crashed by	109	96	77	66	65	75	68	64	55	47	39	32	26	52	40	37	38	37	32	34	30	41
caught in/between	409	421	390	339	297	297	254	256	254	221	178	157	162	200	233	190	164	160	156	154	191	177
cut	35	35	31	37	31	29	24	21	21	26	20	10	13	16	18	15	26	19	16	11	21	18
injury to the sole of the foot	2	7	5	8	2	3	0	4	1	1	1	2	2	0	1	1	0	3	1	2	2	0

drown	0	1	0	1	1	1	0	0	0	0	0	1	2	0	1	0	0	0	2	0	0	0
contact to high/low-temperature	9	15	12	13	9	11	9	6	7	3	5	9	5	6	7	12	7	4	5	9	10	12
contact to harmful substance	3	5	1	1	4	3	4	6	4	5	2	3	5	1	2	1	1	2	0	6	6	4
electric shock	2	1	3	-	1	2	1	1	0	0	0	3	0	0	1	0	1	0	0	1	0	1
explosion	1	0	0	2	2	-	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
burst	2	1	2	-	0	-	1	0	2	1	0	0	1	1	0	1	1	0	0	1	2	0
fire	0	0	0	-	1	1	0	0	1	0	0	0	0	0	1	0	1	0	0	1	0	0
traffic accident (public road)	25	25	16	17	19	27	18	14	15	4	5	6	10	12	9	11	8	4	9	13	8	5
traffic accident (others)	0	2	2	1	1	-	0	0	0	0	0	0	1	0	1	0	1	1	1	0	0	0
reaction to motion/improper motion	82	72	82	74	70	52	60	43	57	59	52	44	40	43	37	46	43	47	47	54	46	52
others	3	7	2	5	4	7	5	5	6	3	0	2	5	3	2	1	1	2	4	3	3	3
unclassifiable	2	0	1	3	1	2	1	1	0	2	1	1	0	0	0	0	0	0	2	1	1	0

total	1,406	1,371	1,362	1,189	1,044	1,025	951	916	895	819	635	605	596	676	754	729	615	637	620	677	676	677
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Causal agents (middle) of industrial accidents in cement 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	0	-	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0
power transmission mechanism	11	3	8	10	10	9	10	11	7	3	6	10	4	7	8	7	8	3	4	7	11	4
woodworking machine	11	7	7	10	13	9	4	5	4	9	7	2	3	6	1	7	5	5	8	4	5	5
construction machine	22	40	26	14	14	19	28	25	15	16	12	23	13	21	20	13	12	12	15	9	16	11
metal manufacturing machine	30	18	13	19	20	17	14	14	14	11	10	6	15	16	19	7	8	11	14	6	11	11
general machine	107	119	127	107	99	91	83	80	65	89	49	49	47	52	73	54	54	40	35	48	48	64
mobile silviculture																	0	0	0	0	0	0



buildings, establishments	214	227	240	207	189	173	163	162	144	142	113	115	107	114	119	138	112	120	101	145	144	131
hazards, harmful substances	3	7	3	4	4	5	4	4	4	6	2	3	5	2	1	3	1	3	0	7	8	5
materials	233	211	216	224	150	143	109	135	114	109	85	80	68	90	102	97	85	86	72	74	64	57
load	47	49	63	27	35	36	35	33	47	32	10	17	22	21	20	22	21	19	19	24	17	22
natural environment	24	17	21	22	16	19	18	11	16	7	7	24	19	16	22	15	10	13	13	19	12	15
other causal agent	14	14	9	6	7	12	8	3	6	3	3	3	4	2	2	1	5	2	4	2	4	6
no causal agent	34	19	18	25	24	10	17	14	16	16	23	15	11	13	13	15	12	14	15	17	9	20
unclassifiable	1	3	2	4	2	3	2	0	0	2	0	0	0	0	1	0	0	0	1	1	0	1
total	1,406	1,371	1,362	1,189	1,044	1,025	951	916	895	819	635	605	596	676	754	729	615	637	620	677	676	677

Causal agents (small) of industrial accidents in cement 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			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0
power transmission mechanism			8		10		10	11	7	3	6	10	4	7	8	7	8	3	4	7	11	4

circular sawing machine			6		9		2	4	4	5	6	1	2	4	1	7	5	2	5	3	5	3
band sawing machine			1		0		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
wood planer machine			0		1		0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
hollow chisel mortiser, wood borer			0		1		0	0	0	1	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		2	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0
other woodworking machines			0		2		0	1	0	1	1	0	0	2	0	0	0	3	2	1	0	2
leveling, transporting or loading machine			9		5		7	4	2	5	2	10	5	7	8	3	6	4	6	1	6	1
excavating machine			8		3		11	8	9	2	3	6	1	5	6	3	4	2	4	4	8	4

foundation work machine			0		0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hardening machine			1		0		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
demolition machine			0		0		2	0	0	0	0	0	1	0	0	0	1	3	1	0	1	
vehicle for high lift work			0		0		0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
other construction machines			8		6		8	11	4	9	6	6	7	8	6	7	2	5	2	3	2	5
lathe			1		0		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
drill press, milling machine			0		0		0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0
grinding machine, buffing machine			6		6		4	6	4	6	6	4	6	6	12	3	3	6	5	0	7	5
power press			2		3		2	1	1	0	0	0	1	2	4	0	1	0	0	1	1	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		2		1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
other metal manufacturing machines			4		9		7	6	8	5	4	2	5	8	3	4	4	5	9	4	3	6

centrifugal machine			1		4		2	2	0	1	0	0	1	1	2	0	2	0	1	0	1	1
mixer, grinder			29		16		20	13	14	20	10	7	4	15	14	9	9	8	6	6	7	15
roll machine (except printingroll machine)			4		0		2	4	1	2	0	1	1	0	2	0	1	1	1	1	3	1
injection molding machine			1		1		2	0	1	1	0	1	1	0	4	1	0	0	0	0	2	0
food manufacturing machine			0		0		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
printing machine			0		0		0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
industrial robot			0		0		1	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0
other general power machines			92		78		56	61	46	65	39	39	40	36	51	44	40	30	27	41	35	47
felling machine																	0	0	0	0	0	0
mobile logging machine																	0	0	0	0	0	0
skyline yarding machine																	0	0	0	0	0	0
other mobile silviculture machine																	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
rough terrain hauler			0		0		0	1	1	0	2	0	0	0	0	0	0	1	0	0	0	0
other powered conveying machines			27		16		17	19	24	9	14	12	15	15	14	15	11	5	13	11	15	12
cars, bus, motorcycle			11		8		11	6	7	3	3	5	3	5	4	2	5	3	5	6	6	3
railway vehicle			0		0		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
other vehicles			0		3		0	0	0	1	0	0	1	0	1	2	1	1	2	1	4	2
boiler			1		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
pressure vessel			1		1		2	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0
other pressure vessels			0		1		1	1	1	0	0	0	0	1	0	1	0	0	0	1	0	0
chemical facilities			0		0		5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
gas welding equipment			0		1		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
arc welding equipment			0		0		2	1	0	1	1	1	0	1	0	1	0	1	0	2	1	0
other welding equipment			2		1		0	0	0	1	0	0	0	0	0	0	1	0	0	1	1	1
kiln, caldron			1		0		0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	1



scaffolding			14		10		6	7	9	8	6	3	2	4	4	8	3	5	1	8	2	6
timbering			12		10		10	4	6	9	5	4	7	9	5	8	6	4	2	4	6	7
stairs, landing stage			25		18		14	14	17	18	6	6	16	7	11	14	10	10	7	18	15	15
opening			9		2		4	5	2	3	1	5	2	4	2	2	0	2	0	3	1	2
roof, beam, haze, crossbeam, principal rafter			6		4		2	2	2	4	4	3	4	3	2	3	1	3	3	3	2	2
working platform, boot board			45		33		28	24	26	25	18	19	18	18	17	28	20	25	19	18	20	18
passage			55		47		42	35	36	39	29	25	27	31	32	30	35	39	36	50	43	42
building, establishment			40		32		24	38	26	19	30	34	17	23	25	19	21	23	18	22	23	21
other temporary buildings, establishments			34		33		33	33	20	17	14	16	14	15	21	26	16	9	15	19	32	18
explosive substance			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable substance			1		1		1	1	1	0	0	0	0	1	0	0	0	0	0	1	2	0
inflammable gas			0		0		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
harmful substance			1		1		2	1	2	1	2	1	1	0	1	1	1	2	0	2	3	1

radiation			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances			1		2		1	2	1	5	0	2	4	1	0	1	0	1	0	4	3	3
metal material			94		72		50	65	64	54	46	36	34	48	53	59	34	45	36	35	32	32
lumber, bamboo			22		14		14	9	15	15	6	9	4	3	8	5	10	9	6	2	8	6
stone, sand, substance			31		28		18	19	13	17	10	10	6	14	11	13	12	12	7	12	7	7
other materials			69		36		27	42	22	23	23	25	24	25	30	20	29	20	23	25	17	12
load			61		30		31	28	41	30	9	16	21	19	19	18	17	16	18	23	17	18
machine/equipment as load			2		5		4	5	6	2	1	1	1	2	1	4	4	3	1	1	0	4
natural ground, rock			2		4		5	1	8	3	1	3	1	2	2	1	3	3	0	2	1	1
standing tree			0		1		0	1	0	0	1	1	0	1	0	0	1	0	0	0	0	2
water			1		1		1	1	0	0	0	0	1	0	1	0	1	0	0	1	0	0
abnormal environment			1		0		0	0	1	0	0	0	0	1	1	1	0	0	0	0	0	1
high/cold temperature environment			4		3		2	3	6	1	1	8	3	4	5	7	1	2	5	7	6	8

other environments			13		7		10	5	1	3	4	12	14	8	13	6	4	8	8	9	5	3
other causal agent			9		7		8	3	6	3	3	3	4	2	2	1	5	2	4	2	4	6
no causal agent			18		24		17	14	16	16	23	15	11	13	13	15	12	14	15	17	9	20
unclassifiable			2		2		2	0	0	2	0	0	0	0	1	0	0	0	1	1	0	1
total			1,362		1,044		951	916	895	819	635	605	596	676	754	729	615	637	620	677	676	677

### Workers age of industrial accidents in cement 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	23	27	23	15	17	16	12	14	8	10	8	4	9	17	10	8	7	3	11	4	10	7
20-29	183	195	192	141	122	118	108	108	90	76	47	51	48	74	80	75	63	55	52	60	52	55
30-39	224	221	200	204	189	188	162	195	164	147	118	129	97	118	128	113	91	79	99	83	83	105
40-49	296	298	296	260	214	219	166	168	181	175	123	135	127	144	177	194	125	146	121	158	168	151
50-59	517	450	488	441	356	346	353	282	327	267	213	170	183	179	204	169	164	176	181	181	176	175
60 years old or more	163	180	163	128	146	138	150	149	125	144	126	116	132	144	155	170	165	178	156	191	187	184
total	1,406	1,371	1,362	1,189	1,044	1,025	951	916	895	819	635	605	596	676	754	729	615	637	620	677	676	677



May	107	101	105	101	78	70	73	67	71	59	53	54	28	48	66	55	52	39	51	59	45	53
June	115	121	115	85	85	96	82	62	74	78	43	53	59	56	47	57	59	46	50	55	58	59
July	136	114	113	105	86	102	89	77	79	50	44	40	48	60	77	67	58	51	58	67	47	77
August	103	109	113	83	91	83	89	65	70	67	49	56	59	61	50	56	52	65	61	47	53	69
September	135	119	113	101	107	80	77	68	64	71	55	45	47	49	67	63	52	61	53	59	58	38
October	125	94	122	95	93	80	73	99	81	71	58	52	54	53	76	65	55	66	46	62	59	64
November	125	121	96	112	81	85	95	81	86	66	41	55	42	52	72	50	43	47	48	55	56	52
December	106	112	98	76	87	82	72	81	66	61	54	39	51	58	44	64	50	56	52	38	63	54
total	1,406	1,371	1,362	1,189	1,044	1,025	951	916	895	819	635	605	596	676	754	729	615	637	620	677	676	677

Prefecture of industrial accidents in cement 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	134	129	113		81		79	66	53	39	30	33	35	32	57	44	30	30	46	37	35	32
Aomori	17	11	7		17		4	12	7	6	6	5	7	8	3	3	6	6	3	10	6	9
Iwate	32	16	20		18		17	19	7	14	10	9	4	7	9	15	6	17	10	10	7	3
Miyagi	16	23	21		17		16	9	11	10	3	8	10	16	24	19	11	16	10	17	16	16
Akita	14	20	12		6		8	6	5	11	9	8	7	5	14	5	4	3	7	3	10	6
Yamagata	18	21	22		11		9	10	1	9	6	8	7	10	10	5	9	11	11	7	10	14



Fukushima	33	32	34		14		21	16	17	13	11	14	16	19	20	18	18	21	13	18	17	21
Ibaraki	64	66	64		49		38	28	37	55	24	31	27	31	43	40	25	36	24	34	30	34
Tochigi	32	24	27		22		19	23	22	16	16	17	13	18	13	12	19	26	16	21	19	15
Gunma	45	51	36		16		36	24	28	17	24	15	14	21	19	27	17	22	15	20	15	19
Saitama	47	34	45		45		47	39	42	36	19	26	30	29	34	23	39	28	35	37	29	21
Chiba	39	33	25		28		23	25	32	28	26	24	17	26	15	29	18	20	21	23	20	20
Tokyo	23	20	18		11		17	13	12	16	9	6	12	13	10	12	5	9	16	13	10	7
Kanagawa	35	42	30		25		26	25	31	23	20	13	15	12	23	18	10	10	13	13	21	18
Niigata	22	27	23		18		27	26	27	16	12	24	9	12	27	26	21	15	15	13	21	21
Toyama	18	6	14		11		9	9	8	8	13	9	4	5	4	10	1	6	6	7	7	8
Ishikawa	15	11	12		7		10	9	7	8	4	3	6	5	5	3	5	5	6	2	4	3
Fukui	23	16	15		17		15	13	7	12	10	4	16	10	6	13	7	9	9	18	11	10
Yamanashi	16	16	13		10		8	12	12	7	3	5	8	13	13	14	8	8	9	8	6	4
Nagano	29	29	23		23		13	18	19	14	8	17	11	19	14	14	11	12	15	11	11	10
Gifu	43	29	30		40		28	22	16	21	15	13	9	12	17	21	14	12	14	11	12	16
Shizuoka	34	21	20		17		15	25	32	26	23	16	21	20	23	13	15	11	20	17	15	12
Aichi	42	51	54		29		28	30	33	41	24	29	12	27	28	30	33	25	25	23	34	28
Mie	43	42	58		40		35	41	40	23	22	20	20	20	13	27	22	16	14	11	14	15
Shiga	21	27	22		37		23	23	15	34	9	12	11	8	16	12	15	11	12	12	14	8

Kyoto	22	21	16		15		17	7	11	6	18	10	12	12	10	8	7	9	6	9	4	6
Osaka	26	28	48		26		23	30	32	17	18	14	15	11	16	14	8	18	8	13	8	14
Hyogo	47	55	53		42		28	27	35	26	17	12	19	17	21	20	16	23	16	16	17	24
Nara	15	22	15		12		11	12	6	11	6	4	3	9	7	7	3	5	3	7	7	4
Wakayama	22	8	22		13		16	9	17	14	7	8	10	19	11	14	10	7	6	12	10	12
Tottori	6	2	6		6		6	5	1	1	3	8	4	4	1	5	3	2	1	5	2	4
Shimane	15	10	11		12		3	9	9	8	5	10	6	5	5	10	5	2	6	3	5	6
Okayama	33	31	26		25		21	27	25	15	11	12	12	20	22	18	10	11	21	14	19	18
Hiroshima	38	39	42		22		27	29	12	30	13	9	14	14	16	16	11	20	16	17	26	14
Yamaguchi	19	11	19		21		9	14	17	14	6	11	11	10	7	10	7	13	6	7	11	7
Tokushima	18	19	16		8		6	5	6	6	6	4	3	5	4	6	11	5	13	7	8	5
Kagawa	18	17	26		13		13	19	6	12	11	6	13	15	14	11	6	12	10	9	6	15
Ehime	19	31	29		26		14	25	17	17	10	9	8	15	12	10	7	11	11	17	15	15
Kochi	11	34	28		21		12	5	3	14	12	8	8	4	7	5	10	7	6	10	6	12
Fukuoka	65	81	74		53		50	41	54	38	38	39	38	32	46	34	49	26	29	32	39	47
Saga	19	18	9		11		12	10	17	11	10	5	10	9	13	6	10	6	2	10	5	7
Nagasaki	24	23	22		16		13	9	11	6	9	5	6	11	15	16	9	13	13	13	12	12
Kumamoto	34	28	29		26		33	23	32	20	19	22	16	20	19	19	22	26	23	25	35	28
Oita	31	33	26		16		16	14	10	16	14	13	13	12	15	16	9	12	9	16	11	13

Miyazaki	30	26	31		14		20	10	15	12	17	10	8	8	9	9	11	7	5	11	10	13
Kagoshima	29	25	47		29		26	32	22	15	18	12	19	22	17	11	17	13	16	17	14	18
Okinawa	10	12	9		8		4	11	16	7	11	5	7	4	7	11	5	4	9	11	12	13
total	1,406	1,371	1,362		1,044		951	916	895	819	635	605	596	676	754	729	615	637	620	677	676	677

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 cement products in Japan in 1999-2020

cement products industry Code No.010901

Type of fatal accidents in cement 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	7	5	5	2	2	5	2	3	1	3	3	4	4	1	1	2	3	2	3	0	1	2









power transmission mechanism	1	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	0	0	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	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	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	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	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	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	0
leveling, transporting or	1	1	0	0	0	1	1	0	0	1	1	1	0	0	0	1	0	0	0	0	0	1	0





manufacturing machines	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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mixer, grinder	4	3	2	1	1	1	1	0	0	3	1	0	0	2	1	1	0	1	0	1	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
injection molding machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	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
printing machine	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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
other general power machines	5	2	4	0	0	2	3	1	0	0	0	2	1	1	1	0	0	1	1	2	0	1
felling machine																	0	0	0	0	0	0
mobile logging machine																	0	0	0	0	0	0
skyline yarding machine																	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	1	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	1	0	0	0	0	0	0	0	0	0
other electrical equipment	0	0	0	0	0	0	1	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
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
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
hand tool	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ladder	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
slinging tool	1	0	0	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other tools	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0





high/cold temperature environment	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1
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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
no causal agent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0
total	30	25	25	14	14	20	18	10	13	14	8	17	13	12	8	9	8	5	16	13	7	7

#### Workers age of fatal accidents in cement 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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
20-29	5	3	3	1	0	2	3	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0
30-39	3	4	1	2	2	2	2	1	2	1	2	2	1	4	2	1	1	1	2	1	0	0
40-49	4	2	2	1	2	4	1	3	3	0	1	3	1	3	1	1	1	0	2	4	1	0
50-59	9	9	13	7	7	11	7	4	4	8	2	8	6	4	3	4	2	3	8	5	2	3
60 years old or more	9	7	6	3	3	1	5	2	4	4	3	4	5	1	2	3	4	1	3	2	4	4
total	30	25	25	14	14	20	18	10	13	14	8	17	13	12	8	9	8	5	16	13	7	7



Workers' number of workplace of fatal accidents in cement 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	4	5	3	2	2	1	1	3	7	1	7	9	0	3	1	1	1	1	2	0	1
10-29	13	9	14	5	5	12	11	4	7	5	3	9	3	9	4	5	6	3	12	10	5	5
30-49	5	7	3	3	4	4	1	3	2	2	3	1	0	1	1	2	0	1	2	1	1	1
50-99	5	5	3	2	3	1	5	1	1	0	1	0	1	1	0	1	1	0	1	0	1	0
100-299	2	0	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
300 workers or more	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	30	25	25	14	14	20	18	10	13	14	8	17	13	12	8	9	8	5	16	13	7	7

Month of fatal accidents in cement 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	5	0	4	4	0	1	1	0	1	2	0	1	0	4	1	1	0	0	2	1	0	1
February	2	1	1	2	0	2	0	2	0	1	0	2	0	0	0	1	0	0	2	3	0	0
March	3	4	2	1	4	1	3	1	2	3	1	0	1	0	0	0	2	1	1	0	0	0

April	2	0	3	1	2	1	0	2	1	0	1	0	2	0	2	0	0	1	2	0	0	1
May	1	3	3	1	1	1	4	0	1	1	1	4	1	2	1	1	3	0	3	0	2	0
June	2	2	2	3	0	2	2	0	1	1	0	2	1	1	0	1	0	0	0	1	0	2
July	2	2	0	1	3	2	0	1	0	0	1	1	0	2	0	1	1	1	1	1	1	0
August	5	5	2	0	2	1	1	0	4	2	1	4	1	0	1	1	1	1	2	2	0	1
September	2	4	2	0	0	0	3	0	1	0	1	3	3	1	1	0	0	0	0	0	0	0
October	2	2	4	0	0	1	2	3	0	2	2	0	0	1	1	1	1	1	0	3	0	0
November	3	0	2	1	0	7	0	0	1	1	0	0	1	0	1	0	0	0	1	0	3	1
December	1	2	0	0	2	1	2	1	1	1	0	0	3	1	0	2	0	0	2	2	1	1
total	30	25	25	14	14	20	18	10	13	14	8	17	13	12	8	9	8	5	16	13	7	7

Prefecture of fatal accidents in cement 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	0	0	2	1	3	0	1	0	2	2	0	1	0	0	0	0	0	0	0	2	1	0
Aomori	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
Iwate	2	0	0	1	0	0	0	0	0	0	0	0	2	0	0	0	1	0	1	0	0	0
Miyagi	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Akita	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0

Yamagata	1	0	0	3	0	2	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
Fukushima	2	0	0	0	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
Ibaraki	1	0	1	0	0	0	1	0	0	0	0	1	0	1	0	2	0	0	0	0	1	0
Tochigi	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Gunma	1	0	1	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0
Saitama	0	0	1	0	0	0	0	0	0	1	1	1	0	2	0	1	0	0	0	0	1	0
Chiba	0	2	0	1	1	1	1	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0
Tokyo	1	1	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0
Kanagawa	3	1	3	0	0	0	2	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
Niigata	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Toyama	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ishikawa	1	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Fukui	1	0	1	0	0	1	0	0	0	2	0	0	0	0	2	0	0	0	0	1	0	1
Yamanashi	0	0	1	1	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0
Nagano	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Gifu	1	1	1	0	2	1	0	1	0	0	2	1	0	0	1	1	0	0	1	0	0	0
Shizuoka	2	1	0	0	1	1	1	0	0	0	0	2	0	0	1	0	0	0	2	0	1	1
Aichi	1	1	1	0	1	1	0	0	2	0	0	1	0	1	1	0	0	1	0	1	0	1
Mie	0	0	1	0	1	1	2	1	1	0	0	0	0	2	0	1	2	0	0	1	0	0

Shiga	2	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Kyoto	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0
Osaka	0	0	0	0	0	0	0	2	0	1	0	0	1	0	0	0	0	0	1	0	1	0
Hyogo	0	1	1	1	3	2	0	0	2	1	0	0	0	0	0	1	1	1	0	1	0	0
Nara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wakayama	0	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
Tottori	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shimane	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Okayama	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hiroshima	1	1	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	1	0	0
Yamaguchi	1	0	0	1	0	0	0	0	0	0	1	1	0	0	1	0	1	0	0	0	0	0
Tokushima	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kagawa	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1
Ehime	1	1	0	0	0	1	0	0	0	1	0	0	0	2	0	0	0	0	1	0	0	0
Kochi	1	1	2	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	2	0	0
Fukuoka	2	3	1	1	1	1	1	0	0	0	0	1	2	0	0	0	0	0	2	0	0	1
Saga	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Nagasaki	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Kumamoto	0	1	2	0	0	1	0	0	1	1	0	1	0	1	0	0	0	0	0	0	0	0

Oita	1	0	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	0	2	0	0	0
Miyazaki	1	0	0	0	0	1	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0
Kagoshima	2	0	0	0	0	0	0	1	1	1	0	0	0	2	0	0	0	0	0	0	1	0
Okinawa	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
total	30	25	25	14	14	20	18	10	13	14	8	17	13	12	8	9	8	5	16	13	7	7

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

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