

Industrial accidents in machinery/apparatus setting work in Japan in 1999-2020

machinery/apparatus setting work industry Code No.030302

Type of accidents in machinery/apparatus setting 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	220	234	224	220	226	206	210	212	229	203	169	148	153	134	180	173	140	142	148	159	144	142
falling to same level	48	48	63	45	46	38	65	37	60	44	43	45	52	54	33	54	40	39	41	36	59	55
crash	32	44	33	32	27	19	28	25	27	28	26	22	23	16	20	16	14	26	21	20	27	24
struck by flying or falling object	95	95	105	75	88	94	74	78	84	105	58	61	55	63	53	59	57	56	71	58	52	51
collapse	19	30	24	24	22	15	24	28	23	22	29	16	18	27	18	14	13	12	20	23	15	14
crashed by	38	30	37	38	35	31	29	35	25	39	20	19	28	25	28	29	28	22	28	23	26	24
caught in/between	131	143	143	110	99	108	85	112	106	99	95	87	79	108	85	92	89	76	77	94	88	70
cut	40	48	34	34	32	26	42	26	37	33	32	18	27	22	29	34	17	25	28	19	27	18
injury to the sole of the foot	2	1	4	2	2	4	3	1	2	0	2	2	1	4	2	3	2	2	3	0	0	2
drown	0	1	0	1	0	-	1	0	0	1	0	0	2	0	0	0	1	1	1	2	1	0
contact to high/low-temperature	15	11	24	14	13	18	13	17	14	13	19	18	12	14	9	15	8	13	9	25	12	13
contact to harmful substance	6	18	7	4	10	9	9	3	10	3	8	6	9	6	6	7	7	10	3	8	10	11
electric shock	6	4	4	4	2	5	5	5	6	7	3	2	4	1	2	4	0	2	0	3	1	2
explosion	10	4	6	3	4	6	6	1	0	3	4	7	0	1	4	1	1	0	1	2	1	5
burst	5	0	0	2	4	11	0	0	0	0	1	0	3	1	0	0	2	0	0	1	0	1
fire	3	1	0	-	1	1	2	1	4	3	4	9	1	4	1	4	4	4	1	1	2	2
traffic accident (public road)	20	19	25	22	21	23	31	22	12	23	15	23	20	19	28	17	28	46	22	24	29	10
traffic accident (others)	1	0	0	1	0	-	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	1
reaction to motion/improper motion	35	39	41	42	35	34	27	36	24	22	16	33	27	27	29	23	22	23	28	29	28	33
others	2	4	2	3	0	-	2	4	2	3	2	2	5	5	11	5	0	0	2	2	3	17

unclassifiable	1	1	1	-	0	-	1	1	1	1	0	0	0	0	0	2	0	0	1	0	1	0
total	729	775	777	676	667	648	657	644	666	653	546	518	519	531	538	553	473	499	505	529	527	495

Causal agents (middle) of industrial accidents in machinery/apparatus setting 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	4	2	-	1	1	1	2	5	1	0	1	0	2	0	0	0	1	1	0	0	0
power transmission mechanism	5	4	5	3	1	5	7	5	3	5	1	4	4	5	4	3	2	4	7	3	5	2
woodworking machine	8	11	9	5	5	6	6	7	6	5	4	3	5	2	10	6	3	2	4	1	4	3
construction machine	4	10	12	8	6	9	9	10	12	8	9	3	6	9	8	6	7	5	8	2	14	11
metal manufacturing machine	28	23	16	24	18	24	25	17	27	30	20	10	20	15	21	18	15	24	16	22	15	16
general machine	35	20	25	31	25	18	15	11	22	18	18	13	20	27	14	15	14	11	16	17	20	8
mobile silviculture machine																	0	0	0	0	0	0
crane	31	55	55	39	35	34	38	42	30	41	29	26	22	25	22	30	31	25	19	26	29	17
conveying machine	63	67	59	57	69	60	54	56	56	52	42	43	37	41	51	29	49	48	38	48	36	29
vehicle	20	13	21	23	18	21	24	17	13	24	18	11	21	18	27	19	27	33	18	16	28	16
pressure vessel	6	7	7	5	8	14	5	4	4	6	2	5	5	3	2	3	3	3	4	5	1	4
chemical facilities	5	2	0	2	2	4	1	1	1	2	1	0	4	2	1	3	2	1	0	2	2	1
welding equipment	3	6	5	3	0	3	6	5	3	4	9	12	5	1	3	2	5	2	1	1	3	1
kiln, caldron	4	5	1	5	3	3	1	3	1	1	5	3	0	0	2	1	1	3	1	1	4	3
electric equipment	8	4	6	8	8	8	6	7	8	7	8	5	5	5	4	10	1	7	1	6	4	4
human power machine, tools	19	43	33	29	26	27	31	30	30	30	21	19	20	24	14	23	18	24	22	28	26	20
tools	101	105	104	102	91	81	81	101	100	92	75	76	71	65	90	85	57	76	83	84	85	82
other equipments, facilities	26	46	39	26	36	29	28	32	24	21	31	24	20	24	15	43	16	21	24	24	15	23
temporary buildings,	149	170	187	175	160	156	176	157	170	148	134	126	116	123	126	141	113	113	120	110	124	110

establishments																							
hazards, harmful substances	19	22	14	11	11	12	11	6	10	7	10	19	7	12	7	9	9	14	6	14	14	17	
materials	89	68	84	62	67	74	60	67	71	83	52	57	54	60	51	43	48	33	50	52	38	51	
load	75	68	59	40	52	39	48	48	50	47	38	40	38	42	37	31	28	30	38	25	27	35	
natural environment	6	8	7	5	12	12	12	8	12	7	9	5	23	12	7	17	13	8	11	21	16	16	
other causal agent	6	5	9	2	1	-	4	2	2	4	2	5	1	2	11	8	3	1	4	4	2	18	
no causal agent	17	7	18	11	12	8	7	6	5	9	8	8	14	12	11	6	7	10	11	16	14	8	
unclassifiable	1	2	0	-	0	-	1	0	1	1	0	0	1	0	0	2	1	0	2	1	1	0	
total	729	775	777	676	667	648	657	644	666	653	546	518	519	531	538	553	473	499	505	529	527	495	

Causal agents (small) of industrial accidents in machinery/apparatus setting 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			2		1		1	2	5	1	0	1	0	2	0	0	0	1	1	0	0	0
power transmission mechanism			5		1		7	5	3	5	1	4	4	5	4	3	2	4	7	3	5	2
circular sawing machine			7		4		3	5	4	4	4	3	3	1	8	1	2	2	3	1	4	3
band sawing machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
wood planer machine			1		1		0	0	0	0	0	0	1	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	1	0	0	0	0	0	0
chain saw			0		0		0	1	1	0	0	0	0	1	0	2	0	0	0	0	0	0
other woodworking machines			1		0		3	1	1	1	0	0	1	0	2	2	1	0	1	0	0	0
leveling, transporting or loading machine			1		1		0	1	0	2	0	0	0	0	0	2	1	0	0	0	0	1
excavating machine			6		0		3	4	3	4	2	2	1	1	4	3	2	2	4	1	3	1

machine																0	0	0	0	0	0
other mobile silviculture machine																0	0	0	0	0	0
crane			15	10	10	18	12	15	15	6	6	8	12	6	9	4	8	10	10	3	
mobile crane			22	13	12	13	9	11	7	10	3	10	3	16	9	9	6	7	13	5	
derrick crane			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
elevator, lift			11	3	8	4	5	8	5	2	5	5	0	4	5	5	0	6	2	6	
cargo lifting appliance			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
gondola			2	0	1	0	0	2	0	2	2	0	1	1	0	0	1	0	1	0	
lumberyard equipment, logging cableway			0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
simple skyline yarding equipment															0	0	0	0	0	1	
other powered crane			5	9	7	7	4	5	2	6	6	2	6	3	8	7	3	3	3	2	
truck			40	37	32	32	25	31	26	29	20	25	28	19	33	35	25	28	22	15	
forklift			6	20	10	16	12	14	12	8	9	6	12	6	5	7	5	8	8	4	
railway equipment			0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	
conveyor			9	6	10	8	9	6	2	3	6	8	3	2	7	5	5	11	5	9	
loader			0	0	0	0	0	0	0	1	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other powered conveying machines			4	5	2	0	10	1	2	2	1	2	8	1	4	1	3	1	1	1	
cars, bus, motorcycle			21	17	24	16	13	22	18	11	21	18	27	19	27	33	17	16	27	16	
railway vehicle			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other vehicles			0	1	0	1	0	2	0	0	0	0	0	0	0	0	1	0	1	0	
boiler			5	1	1	2	1	1	0	2	1	2	1	3	1	3	1	1	1	1	
pressure vessel			1	4	3	2	1	2	2	0	1	0	1	0	0	0	1	1	0	0	
other pressure vessels			1	3	1	0	2	3	0	3	3	1	0	0	2	0	2	3	0	3	
chemical facilities			0	2	1	1	1	2	1	0	4	2	1	3	2	1	0	2	2	1	
gas welding			3	0	1	4	2	2	6	6	1	1	0	1	5	0	1	1	1	0	

equipment																						
arc welding equipment			2		0		4	1	1	1	3	5	4	0	3	0	0	2	0	0	1	1
other welding equipment			0		0		1	0	0	1	0	1	0	0	0	1	0	0	0	0	1	0
kiln, caldron			1		1		1	2	1	0	5	2	0	0	1	1	1	2	1	1	4	3
industrial dryer			0		1		0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0
other kiln, caldron			0		1		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
transmission			1		1		2	3	3	0	1	0	1	0	1	3	0	0	0	2	2	0
electric power facilities			2		3		2	2	3	4	3	3	1	3	1	5	0	4	1	2	1	0
other electrical equipment			3		4		2	2	2	3	4	2	3	2	2	2	1	3	0	2	1	4
human power cranes			9		8		9	4	9	9	3	3	5	3	3	6	4	5	2	6	5	3
human power hauling equipment			7		6		2	6	2	6	4	3	5	7	5	3	2	6	3	9	4	8
human power machine			0		0		0	2	0	3	1	0	0	1	0	1	1	0	0	2	1	0
hand tool			17		12		20	18	19	12	13	13	10	13	6	13	11	13	17	11	16	9
ladder			69		69		61	80	69	69	54	61	58	53	73	61	42	56	59	68	65	62
slinging tool			19		6		11	7	14	10	10	9	4	5	9	10	4	14	11	7	9	10
other tools			16		16		9	14	17	13	11	6	9	7	8	14	11	6	13	9	11	10
other equipment, facilities			39		36		28	32	24	21	31	24	20	24	15	43	16	21	24	24	15	23
scaffolding			40		24		23	32	36	33	16	15	12	16	14	14	16	15	11	18	15	9
timbering			0		0		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
stairs, landing stage			14		19		21	16	24	12	11	23	12	10	7	22	11	15	15	14	20	19
opening			14		17		11	14	13	7	12	5	6	4	7	11	17	10	8	14	11	9
roof, beam, haze, crossbeam, principal rafter			19		13		25	13	11	10	11	12	19	23	29	22	14	17	12	9	8	15
working platform, boot board			25		20		15	12	20	22	24	21	13	14	9	12	7	13	16	11	14	14
passage			25		18		28	17	16	17	16	14	23	16	17	24	26	18	23	24	26	20
building, establishment			36		30		38	38	34	35	34	24	15	22	25	24	14	17	20	12	17	14

19 years old or less	22	24	20	18	8	8	11	19	17	16	7	14	11	17	21	24	10	7	7	11	10	9
20-29	186	185	161	161	150	128	118	123	120	107	93	99	104	101	102	108	63	95	96	92	83	101
30-39	111	167	175	140	140	149	173	142	175	174	148	140	101	119	109	114	113	115	103	98	112	95
40-49	143	138	136	122	120	108	101	107	103	132	111	112	119	108	116	122	132	124	113	153	130	135
50-59	193	191	209	172	170	173	171	179	160	138	109	101	101	100	106	89	79	87	100	84	99	87
60 years old or more	74	70	76	63	79	82	83	74	91	86	78	52	83	86	84	96	76	71	86	91	93	68
total	729	775	777	676	667	648	657	644	666	653	546	518	519	531	538	553	473	499	505	529	527	495

Workers' number of workplace of industrial accidents in machinery/apparatus setting 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	387	432	437	394	368	370	385	347	374	382	304	316	279	285	294	303	261	289	295	291	283	294
10-29	234	237	235	202	193	191	167	195	191	191	158	136	143	164	158	176	130	139	137	149	146	124
30-49	43	45	55	39	53	47	50	53	52	37	37	39	48	48	41	36	46	38	39	44	42	29
50-99	30	30	19	26	30	23	27	23	28	25	20	14	20	14	23	20	21	18	21	23	21	26
100-299	20	17	19	11	17	13	19	18	17	14	22	8	24	11	14	13	10	14	9	14	25	18
300 workers or more	15	14	12	4	6	4	9	8	4	4	5	5	5	9	8	5	5	1	4	8	10	4
total	729	775	777	676	667	648	657	644	666	653	546	518	519	531	538	553	473	499	505	529	527	495

Month of industrial accidents in machinery/apparatus setting 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	56	52	62	48	53	40	58	38	54	46	40	37	47	37	42	49	42	34	43	41	37	47
February	51	59	66	59	55	43	47	56	53	50	46	38	44	45	40	48	37	39	39	53	45	35
March	55	61	76	65	78	63	44	48	64	70	57	56	55	58	53	50	43	56	39	51	50	45
April	67	74	55	57	55	45	57	50	40	62	33	40	35	34	30	38	36	30	41	37	48	42
May	47	46	64	50	46	47	54	57	52	62	27	38	47	46	42	49	25	53	38	45	41	35
June	58	79	76	54	60	51	49	50	58	52	39	47	37	41	55	40	42	35	45	39	38	37
July	65	76	73	55	59	62	67	58	70	47	63	52	44	45	46	59	44	56	47	46	54	32
August	75	71	79	74	72	72	66	72	53	60	53	44	42	54	69	39	54	63	58	57	47	41
September	71	62	58	62	40	72	53	49	74	54	55	33	38	35	40	37	36	37	37	51	38	55
October	70	57	63	51	53	46	57	60	52	56	44	49	41	57	41	51	35	35	46	47	53	35
November	53	65	64	50	49	57	55	48	47	44	45	36	34	45	42	55	39	30	37	35	41	52
December	61	73	41	51	47	50	50	58	49	50	44	48	55	34	38	38	40	31	35	27	35	39

total	729	775	777	676	667	648	657	644	666	653	546	518	519	531	538	553	473	499	505	529	527	495
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Prefecture of industrial accidents in machinery/apparatus setting 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	26	24	32		35		30	34	30	17	29	18	18	31	19	23	26	31	27	25	28	37
Aomori	1	8	16		12		7	3	6	2	5	8	7	5	7	13	8	2	3	9	7	7
Iwate	9	10	8		3		4	2	4	5	2	1	7	3	5	7	0	5	3	6	8	6
Miyagi	3	12	8		16		13	5	12	11	6	6	17	22	20	10	14	9	10	11	16	14
Akita	7	3	4		4		1	5	2	5	4	7	1	3	0	10	4	5	3	8	7	8
Yamagata	13	11	4		7		4	3	1	2	4	4	8	3	3	1	6	0	2	4	3	5
Fukushima	12	10	20		22		17	8	9	10	7	13	10	9	14	7	10	8	5	9	14	11
Ibaraki	19	16	24		20		13	18	24	15	27	12	21	14	13	22	11	11	12	18	13	18
Tochigi	8	12	12		10		13	9	8	9	6	2	4	7	0	5	8	12	11	9	16	5
Gunma	20	22	18		15		19	13	17	26	18	11	16	16	19	14	18	12	13	12	11	9
Saitama	32	33	21		18		25	32	34	45	24	27	22	18	20	29	17	22	16	19	17	10
Chiba	41	41	47		39		36	38	27	35	41	21	31	31	39	22	18	14	37	27	26	23
Tokyo	50	62	70		54		45	43	47	40	26	32	39	37	33	39	29	24	35	28	31	26
Kanagawa	39	38	53		43		46	39	47	44	46	32	26	31	28	43	30	47	32	39	41	39
Niigata	25	14	21		10		11	14	9	12	11	9	7	10	17	14	11	14	20	16	12	13
Toyama	3	5	7		3		4	5	14	5	3	2	4	5	3	6	10	5	1	10	3	4
Ishikawa	4	6	8		3		3	5	3	2	6	6	7	5	1	6	3	6	6	8	3	7
Fukui	6	10	5		6		5	7	9	4	10	6	7	9	3	9	7	3	6	8	3	6
Yamanashi	3	4	4		8		2	0	1	1	3	1	0	0	1	4	4	4	0	1	3	1
Nagano	9	9	11		5		6	3	12	6	1	7	2	2	7	7	9	6	8	2	7	5
Gifu	12	8	10		15		14	4	6	9	12	9	12	13	9	10	9	5	7	6	6	2
Shizuoka	31	41	33		23		30	34	41	42	26	26	17	28	20	15	22	21	10	24	25	18
Aichi	55	47	34		37		50	51	46	40	30	26	32	18	21	31	22	29	30	27	30	43
Mie	18	25	9		21		15	26	16	15	5	12	11	10	8	10	14	16	22	9	12	9
Shiga	1	10	11		11		11	5	6	12	7	5	8	5	3	3	0	3	4	6	6	7
Kyoto	17	18	14		17		19	20	16	16	14	12	11	10	10	11	4	6	4	3	7	7
Osaka	64	62	61		43		42	34	48	54	55	46	47	32	32	29	28	18	18	39	29	17
Hyogo	26	46	42		28		32	33	37	31	26	30	26	25	30	29	21	32	25	20	28	32
Nara	5	4	3		2		2	5	4	4	5	5	5	7	0	3	2	4	3	3	5	3
Wakayama	11	13	7		5		7	5	3	4	2	8	3	5	4	2	1	0	2	5	2	1
Tottori	1	3	0		3		1	2	1	1	1	1	3	0	0	5	1	0	4	1	2	0

Shimane	3	2	1		1		1	2	3	1	2	1	3	2	4	2	4	2	3	2	3	3
Okayama	9	10	18		8		10	22	13	10	9	11	9	5	12	8	10	5	10	8	7	5
Hiroshima	26	25	18		16		12	12	12	13	6	11	12	12	15	8	16	17	11	23	7	11
Yamaguchi	9	17	12		8		11	11	12	18	6	7	11	16	14	9	8	30	9	7	10	8
Tokushima	8	5	4		5		8	7	3	8	4	3	0	7	5	6	2	4	3	5	5	2
Kagawa	11	6	4		4		7	7	5	4	5	3	3	3	6	3	1	6	4	3	3	2
Ehime	9	7	11		12		6	7	12	3	4	13	9	11	6	8	11	6	11	12	10	9
Kochi	8	3	10		3		3	4	2	6	0	7	4	5	1	3	7	2	1	3	5	1
Fukuoka	27	24	28		36		36	22	23	32	16	20	14	19	28	24	13	15	20	19	21	15
Saga	6	10	6		1		4	3	4	3	0	2	3	5	7	1	1	2	3	4	4	6
Nagasaki	9	5	9		4		4	10	6	2	1	7	2	5	6	11	6	4	5	5	6	2
Kumamoto	6	4	4		7		7	8	7	4	8	5	5	5	8	4	2	7	12	3	5	6
Oita	12	11	21		7		5	7	14	11	9	10	10	11	14	13	11	5	8	14	12	12
Miyazaki	4	5	4		5		6	5	3	3	5	3	1	5	11	10	6	5	12	5	1	13
Kagoshima	8	9	7		8		8	8	3	7	4	5	2	0	7	2	6	10	11	4	6	6
Okinawa	3	5	3		4		2	4	4	4	5	5	2	6	5	2	2	5	3	0	1	1
total	729	775	777		667		657	644	666	653	546	518	519	531	538	553	473	499	505	529	527	495

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 machinery/apparatus setting work in Japan in 1999-2020

machinery/apparatus setting work industry Code No.030302

Type of fatal accidents in machinery/apparatus setting 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	11	11	7	14	7	12	8	8	8	8	8	4	12	5	7	4	3	3	2	2	4	5
falling to same level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1
crash	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
struck by flying or	0	1	1	2	3	4	2	4	5	3	1	0	1	1	1	3	6	2	1	1	0	1

construction machine	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0
metal manufacturing machine	1	1	0	0	1	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0
general machine	0	1	1	2	0	1	0	1	1	0	0	0	2	1	0	0	0	0	2	0	0	0
mobile silviculture machine																	0	0	0	0	0	0
crane	2	2	2	2	2	3	5	1	3	0	2	1	4	2	0	5	2	1	1	1	2	0
conveying machine	2	4	2	3	3	2	2	5	1	1	1	6	1	2	0	0	2	1	1	4	0	0
vehicle	2	0	1	0	1	1	0	0	0	1	2	0	1	0	1	3	0	0	1	0	1	0
pressure vessel	0	0	0	2	0	5	0	0	0	0	0	0	1	0	0	0	0	1	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	1	1	0	0	0	3	2	2	0	0	0	3	0	0	0	0	0
kiln, caldron	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
electric equipment	0	1	0	1	0	1	1	2	0	1	0	1	0	0	0	1	0	0	0	0	0	0
human power machine, tools	0	2	0	0	0	0	1	0	2	1	0	0	1	0	0	0	0	0	0	2	0	0
tools	3	1	1	2	1	2	0	4	1	1	1	1	2	0	1	0	2	1	0	1	0	1
other equipments, facilities	1	2	0	3	2	0	1	2	0	1	1	0	2	1	0	4	1	0	0	0	0	3
temporary buildings, establishments	7	4	5	9	6	9	7	6	5	8	8	2	4	4	5	2	3	2	1	2	4	6
hazards, harmful substances	1	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	1	0	2	0	0
materials	2	0	1	0	0	0	2	0	1	1	1	0	2	0	1	0	1	0	0	0	0	0
load	2	2	2	0	0	2	1	2	4	0	0	0	1	2	2	0	1	0	1	2	1	2
natural environment	1	0	1	2	0	0	1	1	1	0	0	0	7	0	1	0	1	1	1	0	0	0
other causal agent	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	1	0	0	1	1	0	1	0	0	0	0	0	1	0	0
unclassifiable	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
total	25	22	16	27	16	29	23	25	21	15	21	15	30	14	12	16	17	10	10	15	8	12

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	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
load	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	
machine/equipment as load	0	2	1	0	0	1	1	2	4	0	0	0	1	2	2	0	0	0	0	2	1	1
natural ground, rock	1	0	0	2	0	0	0	0	1	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	0	0	2	0	0	0	1	1	1	0	0	0	0
abnormal environment	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
high/cold temperature environment	0	0	1	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0
other environments	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
other causal agent	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
no causal agent	0	0	0	0	0	0	0	1	0	0	1	1	0	1	0	0	0	0	0	1	0	0
unclassifiable	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
total	25	22	16	27	16	29	23	25	21	15	21	15	30	14	12	16	17	10	10	15	8	12

Workers age of fatal accidents in machinery/apparatus setting 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	1	1	0	0	0	0	1	0	1	0	1	2	0	0	0	0	0	0	0	0	0
20-29	5	7	4	6	3	4	3	2	1	2	4	4	5	3	4	4	1	4	1	2	1	1
30-39	3	4	3	1	0	7	8	3	3	1	1	4	0	3	1	3	3	1	1	2	2	2
40-49	4	3	1	5	2	2	3	6	5	4	4	1	9	2	1	2	5	3	2	4	3	5
50-59	8	6	4	11	6	9	9	9	5	4	8	3	10	2	3	2	5	2	5	2	0	3
60 years old or more	5	1	3	4	5	7	0	4	7	3	4	2	4	4	3	5	3	0	1	5	2	1
total	25	22	16	27	16	29	23	25	21	15	21	15	30	14	12	16	17	10	10	15	8	12

Workers' number of workplace of fatal accidents in machinery/apparatus setting 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	12	12	10	15	5	15	11	10	11	8	11	10	15	6	8	6	6	4	5	5	4	6

10-29	8	4	4	9	8	10	8	13	6	3	5	5	10	5	3	10	9	4	1	5	3	3
30-49	3	1	1	1	2	1	3	0	1	3	4	0	1	1	1	0	0	2	2	2	0	2
50-99	2	0	1	2	1	1	1	0	0	0	0	0	2	0	0	0	2	0	1	2	0	0
100-299	0	4	0	0	0	0	0	2	2	1	0	0	2	2	0	0	0	0	1	1	1	0
300 workers or more	0	1	0	0	0	2	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
total	25	22	16	27	16	29	23	25	21	15	21	15	30	14	12	16	17	10	10	15	8	12

Month of fatal accidents in machinery/apparatus setting 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	1	0	1	1	0	1	4	0	3	1	2	3	1	1	0	3	2	0	1	1	0	2
February	1	2	0	2	1	4	2	1	0	0	1	1	1	0	1	2	0	1	1	1	0	0
March	3	1	1	4	5	7	0	2	2	1	2	2	7	2	1	1	3	1	1	0	0	3
April	2	1	0	6	0	1	1	1	0	2	1	2	1	4	1	2	3	0	4	1	2	1
May	3	1	1	2	1	2	1	1	4	5	1	2	6	2	1	2	2	1	1	2	2	0
June	3	5	2	2	4	0	2	4	1	0	1	0	0	0	2	1	2	1	1	1	1	0
July	3	1	2	0	0	3	1	1	3	0	0	1	2	0	1	0	1	1	0	1	1	1
August	2	2	3	1	0	5	6	6	1	3	1	2	4	1	3	1	1	1	0	1	0	2
September	2	2	1	0	0	3	1	3	5	2	4	1	1	4	0	2	1	1	1	2	1	2
October	2	1	1	6	2	2	2	1	2	1	2	1	1	0	1	0	1	2	0	4	0	0
November	1	4	3	1	0	0	2	2	0	0	0	0	3	0	1	1	0	0	0	1	1	0
December	2	2	1	2	3	1	1	3	0	0	6	0	3	0	0	1	1	1	0	0	0	1
total	25	22	16	27	16	29	23	25	21	15	21	15	30	14	12	16	17	10	10	15	8	12

Prefecture of fatal accidents in machinery/apparatus setting 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	1	1	1	0	1	1	0	1	1	1	3	0	0	0	0	1	5	0	1	0	0	0
Aomori	1	0	0	0	2	0	0	0	1	0	0	1	1	0	0	3	1	0	0	1	0	0
Iwate	0	1	0	0	0	1	0	0	0	1	0	0	2	0	0	0	0	1	0	1	0	0
Miyagi	0	1	0	0	0	0	2	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0
Akita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
Yamagata	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fukushima	1	1	1	1	1	1	3	0	0	0	0	1	1	1	0	0	0	0	0	1	0	1
Ibaraki	0	0	4	1	0	2	0	0	1	0	1	0	5	0	0	3	1	0	0	1	0	1

Tochigi	0	0	0	0	0	0	0	1	0	0	2	0	1	0	0	1	0	1	1	0	0	0
Gunma	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2	0	0	0	2	0	0
Saitama	1	0	0	1	0	1	0	0	1	1	1	0	0	2	0	0	2	0	0	0	1	0
Chiba	2	1	0	1	1	2	0	2	1	2	1	0	2	0	1	1	0	1	1	0	2	1
Tokyo	0	1	0	2	1	2	1	1	1	0	1	1	3	0	0	2	0	0	1	1	0	2
Kanagawa	1	2	3	3	0	1	1	0	1	0	2	0	2	2	0	0	0	3	0	0	1	0
Niigata	1	0	0	0	0	0	0	3	0	0	0	0	0	0	2	0	2	1	0	0	0	1
Toyama	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
Ishikawa	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Fukui	0	0	0	0	0	5	0	0	1	0	1	0	2	0	1	0	0	0	0	0	0	0
Yamanashi	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Nagano	1	1	0	1	0	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0
Gifu	1	0	0	0	0	1	1	0	0	0	1	1	1	0	1	0	0	0	0	0	0	1
Shizuoka	0	0	0	1	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Aichi	2	4	0	0	1	1	3	2	1	2	0	1	1	2	0	1	2	0	0	1	0	0
Mie	0	2	0	0	3	0	1	4	3	0	0	0	0	0	1	0	0	1	0	0	0	0
Shiga	0	1	0	2	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0
Kyoto	1	0	0	1	0	1	0	2	2	0	0	2	0	0	0	0	0	0	0	0	0	0
Osaka	3	1	2	0	1	0	1	1	1	0	3	0	0	3	0	0	0	0	1	1	0	0
Hyogo	0	1	0	4	1	0	2	1	0	3	1	2	1	1	1	0	0	0	1	0	0	2
Nara	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wakayama	2	0	0	0	0	0	0	0	1	0	0	0	1	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	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
Okayama	1	0	1	0	0	2	1	0	1	0	0	2	0	1	0	0	1	0	0	0	1	0
Hiroshima	1	0	1	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0
Yamaguchi	0	1	1	0	0	1	0	0	0	0	0	0	1	0	1	0	1	0	1	2	1	2
Tokushima	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
Kagawa	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Ehime	0	0	1	0	2	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0
Kochi	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Fukuoka	2	1	0	1	1	1	4	0	0	1	1	0	1	1	2	1	0	0	0	2	0	0
Saga	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Nagasaki	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kumamoto	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	0

Oita	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Miyazaki	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Kagoshima	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	
Okinawa	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
total	25	22	16	27	16	29	23	25	21	15	21	15	30	14	12	16	17	10	10	15	8	12

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

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