

Fatal and non-fatal accidents in other manufacturing in Japan in 1999-2022

other manufacturing industry Code No.011709

Type of accidents in other manufacturing in 1999-2022

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	2021	2022	total
fall from height	182	184	163	165	170	172	172	159	145	140	165	123	147	129	121	145	129	128	134	147	132	134	123	141	3,550
falling to same level	139	144	184	147	149	163	146	158	156	162	144	130	122	127	119	155	138	138	156	188	176	201	173	179	3,694
crash	60	43	46	51	38	55	58	36	54	49	47	45	41	38	47	31	43	51	42	53	66	32	52	57	1,135
struck by flying or falling object	107	96	95	74	74	104	87	89	84	67	68	65	56	70	56	70	43	46	58	55	49	55	43	60	1,671
collapse	31	22	33	23	25	42	37	26	19	24	33	24	21	27	26	19	12	18	12	18	26	10	16	21	565
crashed by	56	59	56	63	39	50	60	60	44	62	31	39	43	33	35	38	37	36	30	42	46	35	28	27	1,049
caught in/between	355	414	366	345	378	354	321	319	294	248	236	243	238	248	210	248	217	191	215	228	218	210	191	202	6,489
cut	177	151	160	167	125	138	103	146	114	119	108	89	97	83	82	74	79	67	79	77	91	76	74	96	2,572
injury to the sole of the foot	5	2	3	1		2	3	3	2	1	2	3	4	2	3	1	1	3	1	2	1	2		1	48
drown							2						7												9
contact to high/low-temperature	27	22	29	24	21	24	22	18	14	19	14	11	17	12	19	12	15	14	13	29	24	19	14	10	443

contact to harmful substance	7	12	5	4	2	12	6	3	8	12	7	4	7	7	4	4	2	4	9	3	3	5	3	6	139
electric shock	2	3	1	1	1	4	3			2			3	1	1	4	3				1		1	1	32
explosion	2	5	3	1	13	3	2	1		2	1	5	1		3	2	2	2	1	1		1			51
burst			3	3		2	1		1				1	3	1							1			16
fire	1	2	4	1	3	1	4	1	2	2	3	1			2	2	1	3		1		1		1	36
traffic accident (public road)	31	24	29	27	21	16	14	11	21	17	25	22	16	20	17	12	11	11	16	8	10	10	20	6	415
traffic accident (others)			1			2						1			1		1		1						7
reaction to motion/improper motion	93	89	95	98	91	78	92	107	99	104	106	107	94	108	81	65	87	74	88	98	95	107	113	93	2,262
others	6	4	4	4	9	13	7	5	6	5	4	5	5	2	5	5	4	8	3	6	2	6	25	5	148
unclassifiable	1	2	3	1	1	2	1		2	1	3			1	6		2		1	2	1		1		31
total	1,282	1,278	1,283	1,200	1,160	1,237	1,141	1,142	1,065	1,036	997	917	920	911	839	887	827	794	859	958	941	905	877	906	24,362

Causal agents (large) of fatal and non-fatal accidents in other manufacturing in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine	394	420	393	385	405	355	317	331	284	272	262	254	233	238	210	234	210	178	208	219	207	203	171	200	6,583
crane, conveying machine	188	203	208	165	186	186	174	174	186	177	162	145	139	147	149	154	118	138	128	148	145	130	123	109	3,782

manufacturing machine	63	81	58	65	55	59	52	60	47	41	38	47	33	45	43	33	42	34	31	34	41	41	33	39	1,115
general machine	249	265	255	251	276	233	224	204	181	168	172	161	153	156	130	158	123	120	144	150	135	133	113	129	4,283
mobile silviculture machine																									
crane	21	21	27	17	21	24	26	21	27	24	17	10	12	18	9	24	11	14	12	16	20	19	7	6	424
conveying machine	136	154	144	118	134	141	133	142	135	130	125	116	103	111	123	116	98	114	106	124	114	101	95	89	2,902
vehicle	31	28	37	30	31	21	15	11	24	23	20	19	24	18	17	14	9	10	10	8	11	10	21	14	456
pressure vessel	1	1	2	2		3	4	3	1	2	1		1	2	4	2				1	2	2			34
chemical facilities	1	3			1	1	2		1					1				1	1	1					13
welding equipment	6	2	3	4	1	5	1	1	1	3	2		3	2	3		2		2	2	2	2		3	50
kiln, caldron	2	5	4		4	3	4	1		2	6	1	4	2		5	2	4	5	2	2	5	2	2	67
electric equipment	4	3	3	2	1	5	3	1	5	4	1		6	3		1	5	1		1			3	3	55
human power machine, tools	86	57	75	82	54	74	67	72	66	54	57	47	49	64	48	50	51	29	50	58	61	65	59	83	1,458
tools	102	92	96	84	84	95	90	99	88	90	94	71	95	67	68	86	72	80	74	105	107	89	73	93	2,094
other equipments, facilities	27	20	30	28	18	29	36	39	25	25	25	33	23	16	23	33	31	27	23	21	31	19	24	31	637
temporary buildings, establishments	180	167	178	180	172	211	176	191	141	178	175	162	164	150	136	137	156	147	173	178	183	186	197	170	4,088

hazards, harmful substances	16	20	16	12	22	13	16	8	9	19	9	9	10	10	12	8	8	8	15	6	7	9	3	6	271
materials	135	123	113	99	66	100	113	86	98	76	63	52	64	65	58	66	58	51	57	53	65	53	57	66	1,837
load	79	106	98	94	89	97	86	85	97	83	81	88	69	98	72	55	61	72	66	65	60	80	72	73	1,926
natural environment	9	14	18	13	10	11	10	12	11	3	9	12	21	13	15	21	11	15	14	37	20	18	9	18	344
other causal agent	23	12	7	13	8	17	5	9	10	10	8	10	9	4	8	8	14	8	11	13	7	9	30	14	267
no causal agent	25	26	35	35	35	30	36	30	38	38	35	32	29	27	26	27	26	35	30	42	40	35	54	35	801
unclassifiable	4	4	4	2	4	2	1		4		7	1	1	2	7		2		2	6	2				55
total	1,282	1,278	1,283	1,200	1,160	1,237	1,141	1,142	1,065	1,036	997	917	920	911	839	887	827	794	859	958	941	905	877	906	24,362

Causal agents (small) of fatal and non-fatal accidents in other manufacturing in 1999-2022

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	2021	2022	total
engine			2						1				1	1						2	1				8
power transmission mechanism			12		17		10	16	10	6	10	9	15	7	6	8	9	3	12	6	4	9	4	8	181
circular sawing machine			31		34		14	23	24	19	25	21	18	10	13	19	13	9	12	12	10	12	7	14	340
band sawing machine			5		1		2	3	3	1	3	2	3		1	2	1			3			1	1	32
wood planer			1		5		3	7	2	7	3	2	1	2	3		1			2	3		2		44

lathe			4		5		6	6	4	1	1	6	3	6	5	3	6	3	2	1	5	6	3	2	78
drill press, milling machine			7		6		7	4	9	5	8	5	5	3	3	3	6	5	5	7	2	6	5	3	104
grinding machine, buffing machine			10		10		7	7	6	10	6	7	9	11	7	5	8	8	7	9	7	5	5	8	152
power press			11		16		10	11	8	13	6	11	7	8	11	11	10	4	9	6	14	10	6	9	191
forging pressure hammer																									
shearing machine			1		5		5	4	4	1	4	2	1	4	2		3	3	2	3	4	2	3	3	56
other metal manufacturing machines			25		13		17	28	16	11	13	16	8	13	15	11	9	11	6	8	9	12	11	14	266
centrifugal machine							1	1		1	2		1	1											7
mixer, grinder			17		13		13	12	12	10	12	11	16	9	13	13	13	7	8	9	12	9	7	10	226
roll machine (except printingroll machine)			38		34		22	20	18	15	17	7	12	15	10	13	19	11	16	14	9	16	15	4	325
injection molding machine			11		15		10	4	8	2	5	6	6	7	2	3	3	2	4	1	5	5	3	4	106
food manufacturing machine			4		2		7	2	2	8	3	3	4	5	3	2	4	1	2	3	4	3	3	3	68
printing machine			13		9		4	10	5	5	2	3	3	5	6	1	1	2	6	6	1	3	5	3	93
industrial robot			1		4		3	1		2	1			2					2	2	1				19

other general power machines			171		199		165	154	135	126	131	129	112	112	95	126	83	97	106	115	103	97	80	105	2,441
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane			16		7		15	9	10	15	9	6	9	11	7	14	6	8	10	9	15	9	6	4	195
mobile crane			4		6		3	5	7	8	4	2	1	3	1	3	3	3	2	2	2	1		1	61
derrick crane																									
elevator, lift			4		7		7	4	6		3	1	1	3	1	4	2	2		2	3	4	1	1	56
cargo lifting appliance																						1			1
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane			3		1		1	3	4	1	1	1	1	1		3		1		3		4			28

other welding equipment			1		1		1	1		1	2		2		1			1				2	13		
kiln, caldron			2		3					2	3		3			2	1	3	2	1	1	1	2	1	27
industrial dryer							4	1			3	1	1	2		3			3	1	1	4		1	25
other kiln, caldron			2		1											1	1								5
transmission			1						3		1		1			3	1		1				1	2	14
electric power facilities			1		1		2		1	1			2			2							2	1	13
other electrical equipment			1				1	1	1	3			3	3		1									14
human power cranes			3		1		1		1	1	1	4	1			2					3	6	3	8	35
human power hauling equipment			25		20		30	24	26	24	23	19	19	32	25	22	28	13	24	32	34	27	23	31	501
human power machine			3		1		2		2		5	2	2	4	2	4	2	1	2	2	2	3	1	1	41
hand tool			44		32		34	48	37	29	28	22	27	28	21	24	19	15	24	24	22	29	32	43	582
ladder			44		43		46	53	37	45	53	39	41	39	33	49	42	36	41	46	52	41	32	51	863
slinging tool			8		3		6	3	5	4	2	5	3	2	2	2	2	2	2	4	2	1	5	1	64
other tools			44		38		38	43	46	41	39	27	51	26	33	35	28	42	31	55	53	47	36	41	794
other equipment, facilities			30		18		36	39	25	25	25	33	23	16	23	33	31	27	23	21	31	19	24	31	533
scaffolding			6		5		8	6	1	5	1	2	4	2	2	2		3	1	8	5	2	2	6	71

metal material			65		39		64	53	61	41	38	28	41	37	29	30	39	26	28	28	37	29	34	39	786
lumber, bamboo			13		9		19	11	10	8	7	5	7	9	7	15	8	7	7	9	3	8	8	9	179
stone, sand, substance					1		1	3	2			1	1	2	2	2	2	4	3	1	2	1	1		29
other materials			35		17		29	19	25	27	18	18	15	17	20	19	9	14	19	15	23	15	14	18	386
load			85		84		79	77	88	76	72	72	61	86	65	53	56	63	64	57	57	73	67	71	1,406
machine/equipment as load			13		5		7	8	9	7	9	16	8	12	7	2	5	9	2	8	3	7	5	2	144
natural ground, rock			2				1	1		1	1	1	1			1	1	1		2	1	1	1	1	17
standing tree			2				1				1	2		1	2	1		1	2	5		2		2	22
water							1	2	1				10	1					1	1	1	3			21
abnormal environment			2				1				3										1	1		1	9
high/cold temperature environment			5		3		1	1	4		1	5		5	5	6	5	5	3	17	11	5	6	3	91
other environments			7		7		5	8	6	2	3	4	10	6	8	13	5	8	8	12	6	6	2	11	137
other causal agent			7		8		5	9	10	10	8	10	9	4	8	8	14	8	11	13	7	9	30	14	202
no causal agent			35		35		36	30	38	38	35	32	29	27	26	27	26	35	30	42	40	35	54	35	685
unclassifiable			4		4		1		4		7	1	1	2	7		2		2	6	2				43
total	1,282	1,278	1,283	1,200	1,160	1,237	1,141	1,142	1,065	1,036	997	917	920	911	839	887	827	794	859	958	941	905	877	906	24,362

Hokkaido	39	36	32		31		27	34	25	34	23	24	18	28	35	26	33	23	39	35	38	29	28	23	660
Aomori	8	9	6		6		5	5	7	4	1	2	4	1	5	1	5	3	4	5	4	4	2	2	93
Iwate	8	6	7		1		6	9	3	7	5	3	7	5	3	8	7	4	5	3	4	2	4	4	111
Miyagi	16	24	16		22		11	17	21	20	11	10	18	10	11	16	7	12	15	14	8	11	10	16	316
Akita	9	9	14		8		6	6	6	1	3	4	3	3	4	1	1	4	2	7	4	4	2	5	106
Yamagata	18	5	8		7		8	7	11	5	3	6	3	9	8	9	4	2	10	6	8	7	6	7	157
Fukushima	5	16	16		9		15	11	18	10	9	10	7	10	9	4	11	11	7	8	8	9	7	4	214
Ibaraki	35	36	46		35		27	24	28	32	29	29	25	31	25	40	40	34	47	40	40	34	35	27	739
Tochigi	33	21	26		23		29	27	19	17	14	18	22	19	13	15	15	15	20	19	19	17	23	21	445
Gunma	59	49	48		43		18	35	27	15	20	8	22	19	22	18	13	22	20	30	22	17	11	20	558
Saitama	104	70	91		73		106	100	80	91	86	64	80	77	75	90	71	67	66	83	105	97	97	83	1,856
Chiba	37	37	49		39		30	25	44	40	18	37	20	29	27	25	31	27	27	35	31	39	27	42	716
Tokyo	51	54	58		37		57	47	51	52	54	55	41	40	41	23	33	33	29	41	30	34	24	29	914
Kanagawa	59	50	71		47		53	64	51	52	44	53	50	49	37	54	35	43	43	47	36	47	29	55	1,069
Niigata	40	28	29		25		19	21	19	23	25	22	15	17	27	16	13	19	16	22	11	17	13	12	449
Toyama	15	21	8		9		6	7	2	6	5	8	10	4	9	6	6	10	7	12	10	12	9	12	194
Ishikawa	9	6	10		11		9	11	12	14	5	3	4	3	4	3	6	7	8	8	5	9	9	4	160
Fukui	5	1	3		3		5	9	2	8	4	2	6	3	10	5	4	5	3	8	5	12	3	7	113
Yamanashi	6	13	9		6		6	7	6	6	9	10	16	12	5	10	9	7	6	5	5	4	10	11	178
Nagano	11	23	15		15		20	16	14	11	6	7	8	8	10	9	9	9	12	9	8	5	9	9	243
Gifu	35	31	33		26		27	27	26	17	22	18	15	26	19	22	18	18	17	13	16	17	14	20	477
Shizuoka	54	74	57		72		54	52	51	50	41	46	51	42	29	45	44	27	42	53	57	41	68	45	1,095

stairs, landing stage	1												1					1					3
opening															1								1
roof, beam, haze, crossbeam, principal rafter			1	1									1		1			1					5
working platform, boot board	1																	1	1				3
passage												1											1
building, establishment			3						1														4
other temporary buildings, establishments				1													1						2
explosive substance					10				1														11
inflammable substance		1	1							1				1									4
inflammable gas													1	2									3
harmful substance		3		1							1		1										6
radiation																							
other hazards, harmful substances																							
metal material		1							1										1				3
lumber, bamboo																							
stone, sand, substance																							
other materials		1				1																	2
load		2	2		2						1								1		1	1	10

June		1			2					1		1	1						1					7	
July	1	4		3		1		1		1	1				3		2	1					1	19	
August	1		3		1	2	1	2	1				1		1	1		1	1		1	2		19	
September	1	1	2			1	1		1				1				1	1				1		11	
October			1		2	1		1			1		1	1						3				1	12
November	3		1	3	2					1	1	1	1			2			1	1					17
December	1	2		3	3	2	1	2	1	2	1	1			1	1		1	2	4	2			1	31
total	17	16	16	12	19	14	6	12	6	8	6	3	15	5	7	6	5	7	8	12	6	4	3	5	218

Prefecture of fatal accidents in other manufacturing in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	1		3	1	1						1			1	2				1		2	1			14
Aomori	1									1								1			1				4
Iwate	1			1				1					3					1							7
Miyagi	2	1	1	2									7	1		1		1							16
Akita				1																			1		2
Yamagata	2		1																						3
Fukushima						1																			1
Ibaraki									1	2								1			1				5
Tochigi					1			1					1						2		1				6
Gunma																				1					1

Okayama		1				1									1						1				4
Hiroshima		2																	2					1	5
Yamaguchi					1															1					2
Tokushima																									
Kagawa																									
Ehime		3													1										4
Kochi							1																		1
Fukuoka	1		1		3	1		1											1						7
Saga						1																			1
Nagasaki																									
Kumamoto		1														1				1					3
Oita	1					1		1			1														4
Miyazaki	1		1	1																					3
Kagoshima	1			2	8				1				1		1					1			1		16
Okinawa			1	1									1												3
total	17	16	16	12	19	14	6	12	6	8	6	3	15	5	7	6	5	7	8	12	6	4	3	5	218

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

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