

Fatal and non-fatal accidents in other manufacturing in Japan in 1999-2021

other manufacturing industry Code No.0117

Type of accidents in other manufacturing in 1999-2021

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	total	Type of accidents
fall from height	434	449	436	404	435	433	445	410	395	389	398	341	369	347	331	347	349	353	363	369	390	363	367	8,917	fall from height
falling to same level	384	370	420	361	398	396	378	403	396	398	389	352	384	356	348	421	404	383	448	504	479	522	461	9,355	falling to same level
crash	171	131	139	135	123	148	140	123	157	119	115	108	99	112	122	100	110	136	125	117	133	114	126	2,903	crash
struck by flying or falling object	312	295	288	261	228	271	255	223	224	210	186	162	171	187	160	153	135	129	154	148	112	129	120	4,513	struck by flying or falling object
collapse	58	57	64	52	60	75	62	46	39	49	51	37	37	52	43	40	35	34	31	41	47	22	24	1,056	collapse
crashed by	155	166	154	149	124	142	138	143	118	133	87	102	90	91	98	86	94	95	96	111	122	91	94	2,679	crashed by
caught in/between	851	869	822	771	752	748	711	714	629	573	525	545	523	519	461	514	443	450	470	478	460	465	407	13,700	caught in/between
cut	286	260	253	252	211	210	193	226	183	178	159	151	153	150	131	123	123	104	131	118	146	128	119	3,988	cut
injury to the sole of the foot	8	4	6	2		3	4	4	4	3	4	4	5	3	5	1	2	3	1	4	3	2	2	77	injury to the sole of the foot
drown		1	1	1		1	2		1				29					1		1				38	drown
contact to high/low-temperature	128	99	133	104	91	93	80	89	88	71	82	71	70	53	76	67	75	65	50	78	76	69	46	1,854	contact to high/low-temperature
contact to harmful	17	29	15	13	11	20	16	16	21	19	20	7	17	12	17	8	9	12	23	9	12	9	11	343	contact to harmful

substance																										substance
electric shock	5	7	3	3	5	6	4	3	3	3	1	2	3	2	5	6	6	3	2	1	2		2	77	electric shock	
explosion	13	10	9	7	20	8	4	6	3	4	3	9	3	3	5	3	2	5	4	3	2	5	2	133	explosion	
burst	12	8	7	7	8	11	10	8	5	9	7	6	6	11	6	4	9	4	2	4	2	3	4	153	burst	
fire	6	6	8	3	6	11	11	9	5	6	3	8	2	5	5	6	3	8		6	7	1	2	127	fire	
traffic accident (public road)	85	86	94	83	81	80	67	71	76	60	63	71	54	57	48	55	62	57	58	46	61	40	51	1,506	traffic accident (public road)	
traffic accident (others)	1	1	1		2	5			2		1	1			1	1	2		1	2	1		1	23	traffic accident (others)	
reaction to motion/improper motion	264	247	272	237	243	200	231	265	253	279	239	242	260	254	233	187	236	219	266	234	249	282	294	5,686	reaction to motion/improper motion	
others	13	15	7	6	15	22	14	12	16	10	15	8	25	7	10	9	11	13	10	13	12	21	53	337	others	
unclassifiable	3	6	8	5	2	5	6	3	4	5	5	1	2	3	8	1	4	2	3	5	4		1	86	unclassifiable	
total	3,206	3,116	3,140	2,856	2,815	2,888	2,771	2,774	2,622	2,518	2,353	2,228	2,302	2,224	2,113	2,132	2,114	2,076	2,238	2,292	2,320	2,266	2,187	57,551	total	

Causal agents (large) of fatal and non-fatal accidents in other manufacturing in 1999-2021

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	total	Causal (L) agents
machine	753	775	707	693	683	651	621	613	544	532	500	452	426	432	385	410	385	363	392	377	369	379	307	11,749	machine
crane, conveying machine	660	665	695	592	603	612	564	570	547	497	448	446	433	418	432	441	399	443	418	418	445	396	390	11,532	crane, conveying machine
other equipment	619	555	593	550	518	540	548	574	533	513	491	456	493	469	451	456	445	439	445	511	578	516	497	11,790	other

																									equipment
temporary buildings, establishments	477	429	463	426	441	504	441	452	402	437	435	407	438	399	358	399	433	413	484	471	465	475	500	10,149	temporary buildings, establishments
substance, material	327	318	309	273	221	245	273	226	233	213	179	154	165	184	178	158	149	133	162	154	143	142	125	4,664	substance, material
load	176	189	199	166	186	183	173	184	185	170	144	148	149	176	130	112	132	137	156	138	128	137	136	3,634	load
environment	39	55	43	30	31	32	31	34	43	24	26	49	80	43	49	63	46	45	44	84	65	65	42	1,063	environment
others	155	130	131	126	132	121	120	121	135	132	130	116	118	103	130	93	125	103	137	139	127	156	190	2,970	others
total	3,206	3,116	3,140	2,856	2,815	2,888	2,771	2,774	2,622	2,518	2,353	2,228	2,302	2,224	2,113	2,132	2,114	2,076	2,238	2,292	2,320	2,266	2,187	57,551	total

Causal agents (middle) of fatal and non-fatal accidents in other manufacturing in 1999-2021

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	2021	total	Causal (M) agents
engine	8	11	10	9	8	10	7	6	5	5	11	2	5	5	2	2	3	3	2	4	1			119	engine
power transmission mechanism	52	50	47	43	46	42	42	44	35	38	40	38	37	21	25	26	28	24	34	23	11	24	14	784	power transmission mechanism
woodworking machine	67	56	69	63	60	53	33	47	46	51	45	36	35	25	24	34	29	17	22	26	29	20	18	905	woodworking machine
construction machine	58	61	40	46	32	46	51	42	29	36	29	23	24	25	29	30	33	33	32	24	23	30	29	805	construction machine
metal manufacturing machine	139	153	107	120	105	110	113	115	99	95	84	76	68	90	73	72	77	60	64	61	73	78	70	2,102	metal manufacturing machine

general machine	429	444	434	412	432	390	375	359	330	307	291	277	257	266	232	246	213	226	237	238	232	227	175	7,029	general machine	
mobile silviculture machine																	2		1	1			1	5		mobile silviculture machine
crane	96	99	106	72	72	80	81	78	82	71	49	53	47	59	47	59	48	54	43	51	53	55	48	1,503	crane	
conveying machine	363	370	372	338	365	355	333	346	330	284	263	265	257	254	275	273	236	292	272	272	279	248	243	6,885	conveying machine	
vehicle	201	196	217	182	166	177	150	146	135	142	136	128	129	105	110	109	115	97	103	95	113	93	99	3,144	vehicle	
pressure vessel	9	5	9	7	6	8	9	10	7	8	5	1	4	8	5	7		4	5	3	5	5	1	131	pressure vessel	
chemical facilities	1	3			2	1	2		1					1				1	2	2	1			17	chemical facilities	
welding equipment	15	17	20	14	12	14	6	9	8	10	16	4	7	10	11	2	9	5	8	5	5	11	11	229	welding equipment	
kiln, caldron	14	11	12	3	6	5	7	6		6	9	6	11	4	5	7	4	11	10	5	6	8	8	164	kiln, caldron	
electric equipment	8	13	6	5	6	10	8	3	10	9	6	4	10	6	4	5	7	5	2	7	8	7	5	154	electric equipment	
human power machine, tools	219	187	213	202	166	181	197	184	165	147	151	138	141	161	143	143	141	128	146	156	183	177	151	3,820	human power machine, tools	
tools	250	237	242	223	247	233	226	260	253	251	232	209	235	210	213	214	208	210	201	257	285	241	244	5,381	tools	
other equipments, facilities	103	82	91	96	73	88	93	102	89	82	72	94	85	69	70	78	76	75	71	76	85	67	77	1,894	other equipments, facilities	
temporary buildings, establishments	477	429	463	426	441	504	441	452	402	437	435	407	438	399	358	399	433	413	484	471	465	475	500	10,149	temporary buildings, establishments	

hazards, harmful substances	51	57	53	44	48	39	44	48	32	40	30	33	35	26	39	25	25	30	36	28	27	21	14	825	hazards, harmful substances
materials	276	261	256	229	173	206	229	178	201	173	149	121	130	158	139	133	124	103	126	126	116	121	111	3,839	materials
load	176	189	199	166	186	183	173	184	185	170	144	148	149	176	130	112	132	137	156	138	128	137	136	3,634	load
natural environment	39	55	43	30	31	32	31	34	43	24	26	49	80	43	49	63	46	45	44	84	65	65	42	1,063	natural environment
other causal agent	53	42	39	27	27	43	26	32	28	32	24	19	22	15	26	22	43	22	34	24	21	38	62	721	other causal agent
no causal agent	93	79	84	95	98	72	88	84	100	95	94	93	93	81	95	70	79	80	99	105	100	118	127	2,122	no causal agent
unclassifiable	9	9	8	4	7	6	6	5	7	5	12	4	3	7	9	1	3	1	4	10	6		1	127	unclassifiable
total	3,206	3,116	3,140	2,856	2,815	2,888	2,771	2,774	2,622	2,518	2,353	2,228	2,302	2,224	2,113	2,132	2,114	2,076	2,238	2,292	2,320	2,266	2,187	57,551	total

Causal agents (small) of fatal and non-fatal accidents in other manufacturing in 1999-2021

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	total	Causal (S) agents
engine			10		8		7	6	5	5	11	2	5	5	2	2	3	3	2	4	1			81	engine
power transmission mechanism			47		46		42	44	35	38	40	38	37	21	25	26	28	24	34	23	11	24	14	597	power transmission mechanism
circular sawing machine			38		40		21	26	27	24	28	23	23	10	16	24	15	11	16	13	12	13	9	389	circular sawing machine
band sawing machine			5		1		3	3	3	1	4	2	3		1	2	1			3			1	33	band sawing machine
wood planer machine			1		7		4	7	3	8	3	3	2	3	3	1	2		1	3	3		2	56	wood planer machine





machine																									machine
other mobile silviculture machine																			1					1	other mobile silviculture machine
crane			39		18		28	26	23	30	17	17	22	25	20	29	12	21	21	28	24	18	16	434	crane
mobile crane			24		24		21	21	24	22	13	14	8	15	12	14	13	13	7	8	12	10	12	287	mobile crane
derrick crane												1												1	derrick crane
elevator, lift			28		24		21	20	20	14	12	16	9	14	10	10	17	16	12	8	12	17	13	293	elevator, lift
cargo lifting appliance						1					1											2		4	cargo lifting appliance
gondola			1							1		1						1	1					5	gondola
lumberyard equipment, logging cableway																								1	lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane			14		6		10	11	15	4	6	4	8	5	5	6	4	3	3	7	5	8	7	131	other powered crane
truck			219		219		188	193	188	147	149	142	143	139	149	149	129	178	176	161	164	157	155	3,145	truck
forklift			67		63		75	79	64	71	66	58	61	55	59	61	44	50	38	44	62	49	49	1,115	forklift
railway equipment									1												2		1	4	railway equipment
conveyor			66		62		58	58	64	53	35	54	40	50	54	53	51	52	49	58	40	31	25	953	conveyor
loader			1		5		4	2		2	2		1	4		1			2	1	4	1	2	32	loader
straddle carrier													1	1	1		1						1	5	straddle carrier
rough terrain hauler			2		1		1						1				1			1			1	8	rough terrain hauler
other powered			17		15		7	14	13	11	11	11	10	5	12	9	10	12	7	7	7	10	9	197	other powered



conveying machines																									conveying machines	
cars, bus, motorcycle			202		155		147	138	133	137	131	126	121	96	105	104	107	93	100	88	108	90	92	2,273	cars, bus, motorcycle	
railway vehicle			1		2		1					1	2			2	1		1	2				13	railway vehicle	
other vehicles			14		9		3	7	2	5	5	2	7	7	5	5	6	3	3	6	3	3	7	102	other vehicles	
boiler			2				1	5	3	3	2	1	3	3		2			1		2	1	1	30	boiler	
pressure vessel			1				3	2	2	2	1		1	1	3	1			2	2		2	3		26	pressure vessel
other pressure vessels			6		6		5	3	2	3	2			4	2	4			2	2	3	1	1		46	other pressure vessels
chemical facilities					2		2		1					1					1	2	2	1			12	chemical facilities
gas welding equipment			11		9		2	1	5	5	8	3	3	6	3	2	5	2	3	2	3	4			77	gas welding equipment
arc welding equipment			7		2		3	3	2	3	3	1	1	2	6		2	3	4	3	2	7	8	62	arc welding equipment	
other welding equipment			2		1		1	5	1	2	5		3	2	2		2		1				3	30	other welding equipment	
kiln, caldron			6		4		1	1		4	3		3		2	2	1	4	2	2	1	1	5	42	kiln, caldron	
industrial dryer			4		1		6	5		2	6	5	8	4	3	5	2	6	7	3	5	7	3	82	industrial dryer	
other kiln, caldron			2		1							1					1	1	1					7	other kiln, caldron	
transmission			1		2		1	1	4		4		3	1	3	2	4	2	2	5	4	3	2	44	transmission	
electric power facilities			2		1		3		2	2		1	2		1		3	1			2		3	23	electric power facilities	
other electrical equipment			3		3		4	2	4	7	2	3	5	5		3		2		2	2	4		51	other electrical equipment	
human power			11		8		6	11	5	10	5	6	8	7		5	4	10	6	4	21	13	18	158	human power	

cranes																									cranes
human power hauling equipment			68		51		71	55	58	60	60	64	52	65	64	67	76	65	72	81	96	85	70	1,280	human power hauling equipment
human power machine			10		6		8	5	8	3	7	6	5	7	7	9	4	5	6	7	6	6	2	117	human power machine
hand tool			124		101		112	113	94	74	79	62	76	82	72	62	57	48	62	64	60	73	61	1,476	hand tool
ladder			146		140		127	143	133	139	137	136	138	127	129	128	127	116	122	142	159	147	139	2,575	ladder
slinging tool			16		15		12	13	14	16	11	12	5	5	6	6	6	5	4	8	8	7	10	179	slinging tool
other tools			80		92		87	104	106	96	84	61	92	78	78	80	75	89	75	107	118	87	95	1,684	other tools
other equipment, facilities			91		73		93	102	89	82	72	94	85	69	70	78	76	75	71	76	85	67	77	1,525	other equipment, facilities
scaffolding			11		11		17	9	11	9	6	5	8	5	4	8	3	4	3	10	9	5	2	140	scaffolding
timbering										2										1		1	1	5	timbering
stairs, landing stage			77		85		85	71	82	80	73	61	63	64	67	64	74	80	82	67	69	94	108	1,446	stairs, landing stage
opening			8		7		10	14	9	2	12	10	11	8	7	10	11	4	14	9	11	7	9	173	opening
roof, beam, haze, crossbeam, principal rafter			12		8		8	9	8	9	9	8	14	8	8	4	5	7	12	9	8	4	10	160	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			75		67		74	78	49	74	63	65	75	60	27	63	73	43	70	58	64	59	58	1,195	working platform, boot board
passage			176		159		135	162	156	167	177	165	156	146	154	181	164	179	201	228	212	220	237	3,375	passage
building, establishment			70		65		59	75	56	60	62	62	74	67	60	39	56	54	59	55	50	42	42	1,107	building, establishment
other temporary buildings, establishments			34		39		53	34	31	34	33	31	37	41	31	30	47	42	43	34	42	43	33	712	other temporary buildings, establishments

explosive substance			6		17		6	2	2	2	1	2		1	3	2	3	1	2		2			52	explosive substance
inflammable substance			15		14		11	22	6	10	5	13	7	6	8	10	11	12	6	11	8	6	2	183	inflammable substance
inflammable gas			10		3		6	3	2	4	3	8	3	6	1	5	2	2	5	5	2	1		71	inflammable gas
harmful substance			11		5		12	12	9	11	10	6	9	7	19	5	4	8	10	7	5	4	5	159	harmful substance
radiation																									radiation
other hazards, harmful substances			11		9		9	9	13	13	11	4	16	6	8	3	5	7	13	5	10	10	7	169	other hazards, harmful substances
metal material			177		116		151	116	129	111	101	75	84	105	77	72	82	58	71	74	74	75	70	1,818	metal material
lumber, bamboo			21		14		24	16	17	13	10	10	12	16	13	17	13	9	13	17	7	10	16	268	lumber, bamboo
stone, sand, substance					4		4	4	3	3		1	2	4	4	4	2	5	4	2	3	2	1	52	stone, sand, substance
other materials			58		39		50	42	52	46	38	35	32	33	45	40	27	31	38	33	32	34	24	729	other materials
load			156		156		142	161	153	144	122	119	119	147	114	99	110	118	142	117	118	124	124	2,485	load
machine/equipment as load			43		30		31	23	32	26	22	29	30	29	16	13	22	19	14	21	10	13	12	435	machine/equipment as load
natural ground, rock			4		1		4	2	1	4	2	2	2	4	2	1	3	4	2	3	2	3	3	49	natural ground, rock
standing tree			2		1		2	1	1		2	3		1	3	1		1	4	5		2	1	30	standing tree
water							2	2	4	1		2	43	2					1	1	2	4		64	water
abnormal environment			2		1		1		2		3		1								1	1		12	abnormal environment
high/cold temperature environment			14		5		3	5	11	5	7	19	4	8	11	17	15	12	10	36	32	22	13	249	high/cold temperature environment

other environments			21		23		19	24	24	14	12	23	30	28	33	44	28	28	27	39	28	33	25	503	other environments
other causal agent			39		27		26	32	28	32	24	19	22	15	26	22	43	22	34	24	21	38	62	556	other causal agent
no causal agent			84		98		88	84	100	95	94	93	93	81	95	70	79	80	99	105	100	118	127	1,783	no causal agent
unclassifiable			8		7		6	5	7	5	12	4	3	7	9	1	3	1	4	10	6		1	99	unclassifiable
total			3,140		2,815		2,771	2,774	2,622	2,518	2,353	2,228	2,302	2,224	2,113	2,132	2,114	2,076	2,238	2,292	2,320	2,266	2,187	45,485	total

#### Workers age of fatal and non-fatal accidents in other manufacturing in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less	68	72	75	54	44	50	45	53	27	39	30	30	28	44	30	35	40	24	40	31	34	25	34	952	19 years old or less
20-29	733	694	692	588	602	528	489	492	458	392	334	324	320	301	283	276	256	247	251	268	263	251	252	9,294	20-29
30-39	544	561	582	546	539	593	571	587	562	527	506	481	479	439	423	368	370	343	388	347	357	335	311	10,759	30-39
40-49	696	600	579	543	508	515	502	509	485	501	453	464	491	504	464	532	501	544	540	556	509	472	459	11,927	40-49
50-59	858	879	895	791	765	814	791	770	701	623	619	517	576	490	491	480	467	435	521	542	554	577	557	14,713	50-59
60 years old or more	307	310	317	334	357	388	373	363	389	436	411	412	408	446	422	441	480	483	498	548	603	606	574	9,906	60 years old or more
total	3,206	3,116	3,140	2,856	2,815	2,888	2,771	2,774	2,622	2,518	2,353	2,228	2,302	2,224	2,113	2,132	2,114	2,076	2,238	2,292	2,320	2,266	2,187	57,551	total

#### Workers' number of workplace of fatal and non-fatal accidents in other manufacturing in 1999-2021

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Workers scale
9 workers or less	1,256	1,188	1,155	1,090	1,074	1,131	976	997	921	807	773	751	756	741	637	642	649	599	622	657	614	576	567	19,179	9 workers or less
10-29	960	969	996	864	847	824	837	840	768	769	702	621	686	649	625	663	607	604	647	645	629	655	636	17,043	10-29
30-49	357	356	360	317	325	324	340	329	323	314	316	268	285	276	290	286	276	303	308	335	370	323	325	7,306	30-49





Mie	62	56	48		45		58	45	44	47	57	45	49	31	33	49	33	33	45	35	58	38	33	944	Mie
Shiga	28	24	22		43		31	29	41	27	25	22	17	27	19	28	31	13	14	31	16	28	32	548	Shiga
Kyoto	64	41	53		56		58	64	58	57	51	45	42	46	50	35	40	52	46	51	29	47	44	1,029	Kyoto
Osaka	233	249	255		215		212	225	171	179	178	173	172	171	124	149	163	124	147	157	162	128	138	3,725	Osaka
Hyogo	136	150	135		156		125	130	114	112	136	103	116	109	84	84	85	89	99	81	91	94	96	2,325	Hyogo
Nara	23	27	39		33		31	15	27	20	36	23	19	15	15	20	22	19	20	27	20	20	23	494	Nara
Wakayama	42	39	42		41		48	36	28	18	26	20	23	34	25	26	28	17	16	23	16	30	19	597	Wakayama
Tottori	15	26	15		11		15	16	14	7	9	10	7	7	7	5	9	6	10	9	8	10	9	225	Tottori
Shimane	22	21	19		15		20	17	17	16	11	10	11	15	7	16	12	11	12	18	19	15	7	311	Shimane
Okayama	53	73	65		59		66	51	49	67	42	44	41	41	47	29	31	37	41	43	60	51	37	1,027	Okayama
Hiroshima	97	64	66		57		84	75	73	69	64	39	50	63	41	60	43	52	69	51	65	60	65	1,307	Hiroshima
Yamaguchi	37	40	24		30		24	25	29	18	17	25	25	16	19	16	19	17	16	16	20	20	9	462	Yamaguchi
Tokushima	14	15	28		19		23	18	17	15	12	11	5	8	8	9	9	13	18	16	11	11	18	298	Tokushima
Kagawa	46	40	35		31		39	33	29	39	29	20	20	14	17	21	11	15	23	24	21	22	20	549	Kagawa
Ehime	48	46	44		26		48	30	37	34	35	42	34	30	31	35	18	32	35	29	28	33	32	727	Ehime
Kochi	41	27	41		22		17	18	32	14	11	17	20	8	10	19	19	8	9	10	21	10	15	389	Kochi
Fukuoka	111	112	116		111		105	114	97	103	100	84	81	100	87	76	82	77	81	99	88	88	74	1,986	Fukuoka
Saga	21	19	24		27		23	23	24	22	16	18	23	20	16	14	19	27	20	24	24	25	21	450	Saga
Nagasaki	32	29	31		19		27	24	23	22	25	29	27	25	29	22	24	19	22	17	25	31	23	525	Nagasaki
Kumamoto	37	35	45		34		43	33	39	55	35	43	45	31	41	37	41	29	35	35	40	37	47	817	Kumamoto
Oita	38	41	23		29		29	32	21	36	23	17	23	19	14	19	21	24	16	18	13	28	23	507	Oita
Miyazaki	38	28	44		36		27	29	32	27	20	26	29	31	22	26	18	30	31	34	34	25	25	612	Miyazaki
Kagoshima	40	43	39		37		32	34	26	45	36	33	29	37	37	30	33	39	28	35	36	31	35	735	Kagoshima
Okinawa	26	22	26		25		25	21	19	19	26	22	27	15	17	22	15	24	16	23	25	22	30	467	Okinawa





injury to the sole of the foot								1								1							2	injury to the sole of the foot	
drown		1	1	1		2	2		1				29				1		1				39	drown	
contact to high/low-temperature	1		3			2				1		2				1					2	1	13	contact to high/low-temperature	
contact to harmful substance		3		2					1	1		1	2	1							1		12	contact to harmful substance	
electric shock	1	1	1		3		1				1							1					9	electric shock	
explosion			1		10					1				1	3	1					1	1	19	explosion	
burst														1	1								2	burst	
fire		2	4					2			1				1		1	1		1			13	fire	
traffic accident (public road)	12	3	8	4	5	6	7	3	3	1	3	3	1	3	2	2	2	2	1	2		2	1	74	traffic accident (public road)
traffic accident (others)																									traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others										1	1		13			1		3		1		1		21	others
unclassifiable						1	1																	2	unclassifiable
total	41	38	37	29	31	37	23	21	19	26	15	24	53	18	14	16	13	19	19	23	15	15	14	560	total

Causal agents (large) of fatal accidents in other manufacturing in 1999-2021

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	total	Causal (L) agents
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load		3	3		2	1			1			2	1							1	1	1	16	load	
natural environment	1	1		1		2	2	1	2	2		2	43	1			1	1	1	2	1	3	2	69	natural environment
other causal agent						1					1											1		3	other causal agent
no causal agent										1						1		2		1				5	no causal agent
unclassifiable						1	1													1				3	unclassifiable
total	41	38	37	29	31	37	23	21	19	26	15	24	53	18	14	16	13	19	19	23	15	15	14	560	total

Causal agents (small) of fatal accidents in other manufacturing in 1999-2021

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	total	Causal (S) agents	
engine																										engine
power transmission mechanism		1						1													1				3	power transmission mechanism
circular sawing machine						1																			1	circular sawing machine
band sawing machine																										band sawing machine
wood planer machine																										wood planer machine
hollow chisel mortiser, wood borer																										hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																										chamfering machine, router, woodworking milling machine













other hazards, harmful substances																									other hazards, harmful substances		
metal material		1								1														3	metal material		
lumber, bamboo																									lumber, bamboo		
stone, sand, substance																							1	1	stone, sand, substance		
other materials		1		1		1																		3	other materials		
load		2	2		2						1											1	1	1	10	load	
machine/equipment as load		1	1			1				1		1	1											6	machine/equipment as load		
natural ground, rock																							1		1	natural ground, rock	
standing tree							1													1	2			1	5	standing tree	
water		1				1	1			1			42												46	water	
abnormal environment					1					1	1													1	4	abnormal environment	
high/cold temperature environment	1					1				1		2	1											2	1	10	high/cold temperature environment
other environments								1							1										3	other environments	
other causal agent						1					1													1	3	other causal agent	
no causal agent										1						1								2	1	5	no causal agent
unclassifiable						1	1																		1	3	unclassifiable
total	41	38	37	29	31	37	23	21	19	26	15	24	53	18	14	16	13	19	19	23	15	15	14	560	total		



January	4	3	5	4		1		4	2	3	1	3	1		2	1	1	2	4	1	1	1		44	January
February	7	3	2		3	3		2	2	3	1		3	2	1	4	1	4	1	3	2		2	49	February
March	5	3	1	4	2	5	6	2	1	3	1	2	43	1		2	2	1	2	2	4	2	1	95	March
April	3	6	3	1	9	5	2	1	1	2	1	2		2	2			1				2		43	April
May	1	1	4	2	2	2	2	1	1	1	2	2	1				3	1	1	3	1	2	1	34	May
June	4	3	4	1		5	1	1	2		3		1	2	2	1			1	2	1	1		35	June
July	4	6	1	5		1	2	2	1	3	1	2		1	3	3	4	1	1	1			3	45	July
August	5	4	5		1	4	3	3	3	1		2	1	4	1	1	1		3	2	1	3	2	50	August
September	4	4	3	1	4	1	2		1	3	1	3		1				1	2		1	2	4	38	September
October		2	2	2	4	2	1	2	1	2	1	5	1	2		1		3	1	3	2	2	1	40	October
November	3		2	3	2	3	2	1	1	2	2	2	1	3	1	2	1	3	1	2				37	November
December	1	3	5	6	4	5	2	2	3	3	1	1	1		2	1		2	2	4	2			50	December
total	41	38	37	29	31	37	23	21	19	26	15	24	53	18	14	16	13	19	19	23	15	15	14	560	total

Prefecture of fatal accidents in other manufacturing in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	1	1	8	2	1	2	1	1		1	1	1		2	2		1	1	2	2	3	1		34	Hokkaido
Aomori	1					1				2				1		1	1	1			1			9	Aomori
Iwate	1			1				1	1			1	13	1				1	1					21	Iwate
Miyagi	3	1	1	2			2			1	1		30	2		1		1						45	Miyagi
Akita	2	1		1																			1	5	Akita
Yamagata	2		1			1				1		1				1				1				8	Yamagata
Fukushima		1			1	2			1	1		1							1					8	Fukushima
Ibaraki	1		1		1				4	2								1			2	1		13	Ibaraki



Okayama	3	2	1			3								1					1	1		12	Okayama		
Hiroshima	1	3				1			1		1								2			9	Hiroshima		
Yamaguchi	1		1	1	1						1	1							1			7	Yamaguchi		
Tokushima		1									1								1			3	Tokushima		
Kagawa						1									1						1	3	Kagawa		
Ehime		3										1			1	1						6	Ehime		
Kochi						1	1												1		1	4	Kochi		
Fukuoka	3	2	2	1	3	1					1			3				2	3			21	Fukuoka		
Saga		1	1			1																3	Saga		
Nagasaki			2															1			1	4	Nagasaki		
Kumamoto	1	1	1			1				1						1			1			7	Kumamoto		
Oita	2				1	1			1		1	1										1	8	Oita	
Miyazaki	1	1	4	1					1			1										1	10	Miyazaki	
Kagoshima	1	1		2	8	1			1	1				1	1	1		1		1		1	21	Kagoshima	
Okinawa	2		1	1			1							1	1							1	8	Okinawa	
total	41	38	37	29	31	37	23	21	19	26	15	24	53	18	14	16	13	19	19	23	15	15	14	560	total

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

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