

contact to harmful substance	236	251	267	301	282	300	283	323	301	238	199	234	227	209	208	217	232	208	227	232	216	241
electric shock	59	63	72	51	43	56	49	39	42	42	30	40	37	38	39	29	34	38	28	39	27	24
explosion	87	88	58	58	90	64	59	46	77	59	38	40	37	54	35	57	19	30	33	25	38	30
burst	42	31	34	37	37	26	28	33	31	38	15	16	22	27	13	17	24	19	18	16	14	14
fire	53	49	55	43	46	54	54	63	45	48	50	42	29	35	44	39	43	37	17	32	31	35
traffic accident (public road)	607	631	578	559	521	515	479	470	469	401	358	461	375	352	364	313	326	323	299	323	306	245
traffic accident (others)	19	24	19	9	12	16	13	15	16	8	5	11	7	7	10	7	14	6	14	20	8	3
reaction to motion/improper motion	2,736	2,654	2,622	2,419	2,442	2,349	2,592	2,773	2,921	2,820	2,119	2,385	2,333	2,313	2,191	2,241	2,281	2,248	2,433	2,581	2,646	2,595
others	177	183	146	119	146	170	147	136	211	119	98	99	218	101	104	116	118	112	103	146	129	470
unclassifiable	51	47	55	46	43	35	49	38	52	38	35	20	20	25	36	31	32	21	34	30	29	15
total	43,998	43,553	42,068	38,323	38,145	37,593	36,694	36,670	36,196	34,464	27,995	28,643	28,872	28,291	27,077	27,452	26,391	26,454	26,674	27,842	26,873	25,675

Causal agents (middle) of industrial accidents in manufacturing 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	24	36	34	22	26	26	16	16	20	15	20	14	12	19	10	8	13	6	17	18	13	7
power transmission	494	434	395	392	324	333	376	329	306	311	263	287	254	257	243	233	257	207	252	245	204	199

mechanism																						
woodworking machine	2,614	2,489	2,164	1,918	1,940	1,706	1,611	1,467	1,450	1,288	1,086	1,082	1,077	988	922	978	844	818	762	778	760	706
construction machine	173	170	154	128	118	134	152	133	120	115	102	112	81	110	99	91	80	86	96	77	94	94
metal manufacturing machine	5,077	4,902	4,364	3,907	3,890	3,876	3,661	3,611	3,521	3,178	2,192	2,362	2,547	2,485	2,299	2,308	2,179	2,052	2,018	2,028	2,002	1,788
general machine	7,190	7,287	6,939	6,591	6,468	6,244	5,830	5,634	5,479	5,341	4,578	4,575	4,473	4,361	4,164	3,995	3,894	3,801	3,826	3,747	3,705	3,393
mobile silviculture machine																	6	5	3	2	6	3
crane	1,226	1,293	1,301	1,166	1,120	1,125	1,124	1,126	1,107	1,059	790	801	795	784	694	776	685	697	695	754	763	656
conveying machine	3,491	3,541	3,459	3,202	3,262	3,159	3,046	3,017	3,081	2,821	2,292	2,350	2,228	2,250	2,224	2,263	2,078	2,152	2,239	2,196	2,189	2,047
vehicle	764	782	789	682	641	683	623	611	628	592	511	558	491	404	445	418	427	406	395	436	414	355
pressure vessel	81	88	90	70	67	64	73	66	73	61	61	41	36	60	37	36	30	33	46	40	36	31
chemical facilities	33	37	20	37	32	38	37	30	27	28	20	16	24	24	13	24	19	26	19	29	22	14
welding equipment	279	279	272	252	222	241	239	225	242	235	180	126	141	170	174	175	145	172	154	145	141	138
kiln, caldron	158	180	180	144	169	164	133	126	137	147	130	146	104	101	134	123	105	100	124	104	134	121
electric	98	95	96	81	80	100	87	71	80	97	65	70	75	71	57	55	71	61	62	71	62	64

equipment																							
human power	2,265	2,281	2,291	2,179	2,184	2,135	2,107	2,025	2,198	2,066	1,698	1,753	1,753	1,776	1,739	1,732	1,644	1,685	1,647	1,714	1,807	1,694	
machine, tools																							
tools	2,810	2,814	2,847	2,464	2,627	2,646	2,671	2,721	2,778	2,739	2,218	2,185	2,274	2,115	2,161	2,112	2,202	2,272	2,234	2,273	2,423	2,257	
other																							
equipments,	1,005	968	959	932	859	939	1,027	954	961	952	780	822	800	810	794	861	818	826	811	802	781	765	
facilities																							
temporary																							
buildings,	5,812	5,756	5,961	5,541	5,758	5,805	5,745	6,058	5,665	5,858	5,045	5,074	5,093	5,200	4,759	5,144	5,078	5,294	5,314	5,830	5,335	5,294	
establishments																							
hazards,																							
harmful	511	521	535	538	515	517	478	513	483	404	337	365	398	347	399	396	373	358	359	337	339	317	
substances																							
materials	5,700	5,399	5,107	4,525	4,206	4,203	4,012	4,100	3,973	3,519	2,728	2,724	2,646	2,719	2,531	2,575	2,424	2,349	2,414	2,405	2,235	2,018	
load	2,148	2,207	2,215	1,918	1,875	1,790	1,837	1,951	2,017	1,844	1,435	1,492	1,478	1,479	1,385	1,337	1,385	1,416	1,335	1,517	1,430	1,372	
natural																							
environment	449	439	506	385	403	423	429	472	367	402	282	471	837	539	552	596	394	508	532	783	514	572	
other causal																							
agent	564	561	427	299	343	350	339	354	375	333	221	218	305	252	305	284	278	235	276	291	274	578	
no causal agent	936	911	879	892	942	834	970	1,005	1,036	994	899	966	917	929	893	891	923	861	1,006	1,158	1,154	1,176	
unclassifiable	96	83	84	58	74	58	71	55	72	65	62	33	33	41	44	41	39	28	38	62	36	16	
total	43,998	43,553	42,068	38,323	38,145	37,593	36,694	36,670	36,196	34,464	27,995	28,643	28,872	28,291	27,077	27,452	26,391	26,454	26,674	27,842	26,873	25,675	

Causal agents (small) of industrial accidents in manufacturing 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			34		26		16	16	20	15	20	14	12	19	10	8	13	6	17	18	13	7
power transmission mechanism			395		324		376	329	306	311	263	287	254	257	243	233	257	207	252	245	204	199
circular sawing machine			993		946		787	733	674	618	536	553	504	457	434	473	423	393	356	375	375	348
band sawing machine			203		159		134	99	121	86	88	65	82	66	68	67	54	52	50	53	36	50
wood planer machine			216		180		152	135	125	142	120	114	129	75	89	95	69	67	67	69	80	66
hollow chisel mortiser, wood borer			66		41		33	29	44	32	23	21	23	22	33	21	24	23	19	21	13	16
chamfering machine, router, woodworking milling machine			92		87		53	42	57	54	34	27	35	30	32	33	27	25	22	34	22	22
chain saw			27		34		17	26	17	25	23	23	11	26	12	17	9	11	15	8	10	18
other woodworking machines			567		493		435	403	412	331	262	279	293	312	254	272	238	247	233	218	224	186
leveling, transporting or loading machine			49		39		36	25	29	32	29	34	37	34	32	25	26	24	27	18	30	28
excavating machine			48		34		65	48	49	35	39	43	16	35	34	31	22	20	35	25	31	27
foundation work machine			2		5		6	3	2	3	3	1	2	2	2	1	4	2	2	4	2	2
hardening machine			5		2		2	3	3	1	1	3	2	1	1	1	2	1	2	1	1	2
demolition machine			6		1		5	9	7	3	2	5	0	3	0	5	4	12	8	8	5	7
vehicle for high lift			13		9		12	14	14	14	10	13	7	14	11	5	9	9	13	6	14	16

industrial robot			22		40		32	33	48	30	24	23	26	27	24	25	21	24	25	20	20	20
other general power machines			3,539		3,304		2,874	2,960	2,836	2,721	2,203	2,230	2,239	2,054	1,992	1,956	1,969	1,879	1,883	2,027	1,925	1,700
felling machine																	3	5	1	0	5	2
mobile logging machine																	2	0	1	1	1	0
skyline yarding machine																	0	0	0	0	0	0
other mobile silviculture machine																	1	0	1	1	0	1
crane			963		856		883	849	843	847	607	615	631	625	534	590	544	556	559	595	601	496
mobile crane			110		87		76	88	89	77	60	62	61	55	55	60	50	58	53	51	50	47
derrick crane			2		2		0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0
elevator, lift			137		109		92	105	110	80	67	77	50	57	56	72	60	46	45	54	65	53
cargo lifting appliance			4		0		3	0	3	0	1	1	2	0	0	1	0	2	0	3	1	3
gondola			1		2		0	1	1	4	0	3	0	1	2	2	1	1	0	0	0	0
lumberyard equipment, logging cableway			2		0		1	2	0	2	2	1	0	0	0	0	1	0	2	0	0	1
simple skyline yarding equipment																	0	0	0	0	0	0
other powered crane			82		64		69	81	61	49	53	40	50	46	47	51	29	34	36	51	46	56
truck			1,233		1,091		986	1,001	1,025	855	769	770	703	752	768	761	708	763	797	783	772	752
forklift			970		942		952	894	922	909	684	645	664	671	621	649	614	633	638	653	652	596

railway equipment			17		11		14	21	15	24	14	6	11	13	12	13	7	7	6	6	16	8
conveyor			1,030		995		895	918	931	879	683	760	708	678	714	699	623	629	651	620	599	575
loader			19		16		11	13	14	11	10	13	10	12	7	14	10	7	15	9	16	9
straddle carrier			0		1		0	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0
rough terrain hauler			6		7		6	3	1	4	7	1	3	2	0	1	1	4	1	4	1	0
other powered conveying machines			184		199		182	166	173	139	125	154	128	121	101	125	114	109	131	121	133	107
cars, bus, motorcycle			717		578		570	559	575	537	449	520	457	360	413	372	390	372	365	393	378	326
railway vehicle			4		6		9	4	2	5	1	3	2	6	4	3	5	4	4	1	6	3
other vehicles			68		57		44	48	51	50	61	35	32	38	28	43	32	30	26	42	30	26
boiler			12		10		17	17	23	9	13	10	7	7	8	8	4	4	8	7	7	5
pressure vessel			45		31		30	29	24	28	27	16	19	31	17	12	20	15	24	12	20	17
other pressure vessels			33		26		26	20	26	24	21	15	10	22	12	16	6	14	14	21	9	9
chemical facilities			20		32		37	30	27	28	20	16	24	24	13	24	19	26	19	29	22	14
gas welding equipment			59		45		52	38	52	45	55	27	39	42	34	30	31	31	37	34	30	26
arc welding equipment			79		70		87	88	100	88	76	48	57	60	67	62	48	76	52	55	49	56
other welding equipment			134		107		100	99	90	102	49	51	45	68	73	83	66	65	65	56	62	56
kiln, caldron			140		133		102	94	108	118	93	120	75	80	105	91	83	70	95	76	105	89
industrial dryer			24		18		25	17	14	22	24	18	22	15	20	25	12	11	21	13	21	20
other kiln, caldron			16		18		6	15	15	7	13	8	7	6	9	7	10	19	8	15	8	12
transmission			28		20		28	29	37	28	29	14	20	30	25	16	35	27	32	31	34	34
electric power facilities			26		29		20	16	23	33	18	29	16	18	12	12	18	12	10	18	8	12

other electrical equipment			42	31		39	26	20	36	18	27	39	23	20	27	18	22	20	22	20	18
human power cranes			46	45		39	42	38	39	22	27	32	26	19	23	24	25	27	24	123	130
human power hauling equipment			778	801		872	825	888	886	695	764	787	787	764	802	800	873	830	879	897	842
human power machine			84	59		42	46	53	46	36	45	39	37	37	54	46	35	44	34	32	32
hand tool			1,383	1,279		1,154	1,112	1,219	1,095	945	917	895	926	919	853	774	752	746	777	755	690
ladder			1,207	1,140		1,057	1,087	1,132	1,062	957	909	911	898	889	860	886	907	882	955	955	958
slinging tool			461	388		403	380	405	358	290	283	286	251	274	261	250	259	226	230	245	183
other tools			1,179	1,099		1,211	1,254	1,241	1,319	971	993	1,077	966	998	991	1,066	1,106	1,126	1,088	1,223	1,116
other equipment, facilities			959	859		1,027	954	961	952	780	822	800	810	794	861	818	826	811	802	781	765
scaffolding			140	134		127	114	139	112	90	74	74	85	63	87	82	80	72	77	90	69
timbering			14	14		13	6	10	13	8	5	10	11	7	9	8	5	2	5	6	11
stairs, landing stage			971	933		881	936	922	942	793	736	754	791	743	802	783	800	834	889	925	932
opening			95	87		88	95	88	85	83	71	80	100	63	75	63	74	68	76	82	89
roof, beam, haze, crossbeam, principal rafter			117	102		98	97	66	83	65	72	83	77	59	61	50	61	55	73	52	48
working platform, boot board			1,013	1,085		986	1,075	1,007	1,068	892	926	873	877	779	911	915	891	835	836	845	749
passage			2,303	2,127		2,299	2,392	2,165	2,349	2,113	2,112	2,188	2,239	2,119	2,243	2,203	2,388	2,461	2,801	2,398	2,466
building, establishment			815	761		744	821	824	773	622	672	642	581	553	538	582	570	610	599	485	472

other temporary buildings, establishments			493		515		509	522	444	433	379	406	389	439	373	418	392	425	377	474	452	458
explosive substance			29		37		28	11	10	10	11	8	9	8	15	15	7	6	8	7	4	4
inflammable substance			82		93		79	91	80	67	60	66	56	52	55	62	57	51	43	36	48	38
inflammable gas			34		30		26	27	34	31	12	18	27	23	18	29	14	14	20	23	19	14
harmful substance			172		161		187	208	177	141	110	139	147	131	141	140	154	132	124	131	110	99
radiation			0		1		0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
other hazards, harmful substances			218		193		158	176	182	154	144	134	159	133	170	150	141	154	164	140	158	162
metal material			3,503		2,899		2,841	2,894	2,867	2,573	1,946	1,894	1,851	1,922	1,736	1,842	1,716	1,702	1,730	1,736	1,607	1,432
lumber, bamboo			790		628		560	511	491	383	312	311	299	299	319	280	268	262	243	264	231	242
stone, sand, substance			198		148		119	115	89	97	73	72	65	76	63	86	71	50	54	45	43	36
other materials			616		531		492	580	526	466	397	447	431	422	413	367	369	335	387	360	354	308
load			1,892		1,623		1,596	1,696	1,771	1,625	1,260	1,320	1,317	1,317	1,232	1,214	1,247	1,276	1,231	1,381	1,304	1,259
machine/equipment as load			323		252		241	255	246	219	175	172	161	162	153	123	138	140	104	136	126	113
natural ground, rock			33		34		32	40	34	31	17	29	22	26	22	17	24	24	17	35	22	25
standing tree			26		27		16	23	15	17	20	22	18	18	17	22	10	11	20	22	21	16
water			27		39		34	47	33	34	21	19	374	31	34	32	18	30	26	30	31	41
abnormal environment			8		7		4	12	13	9	12	6	7	8	13	6	2	3	8	13	5	14
high/cold temperature environment			142		90		94	128	110	122	77	214	142	160	173	180	141	163	174	319	249	267
other environments			270		206		249	222	162	189	135	181	274	296	293	339	199	277	287	364	186	209

other causal agent			427		343		339	354	375	333	221	218	305	252	305	284	278	235	276	291	274	578
no causal agent			879		942		970	1,005	1,036	994	899	966	917	929	893	891	923	861	1,006	1,158	1,154	1,176
unclassifiable			84		74		71	55	72	65	62	33	33	41	44	41	39	28	38	62	36	16
total			42,068		38,145		36,694	36,670	36,196	34,464	27,995	28,643	28,872	28,291	27,077	27,452	26,391	26,454	26,674	27,842	26,873	25,675

Workers age of industrial accidents in manufacturing 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	1,358	1,341	1,237	1,091	1,114	1,026	1,010	878	872	731	588	594	624	641	647	642	585	545	530	520	523	477
20-29	7,883	8,003	7,773	6,778	6,745	6,619	6,332	6,240	5,947	5,590	4,261	4,452	4,519	4,344	4,059	4,225	3,944	3,814	3,946	3,880	3,891	3,583
30-39	6,658	7,013	6,931	6,801	6,990	7,168	7,036	7,465	7,365	6,869	5,666	5,930	5,713	5,677	5,241	5,068	4,865	4,639	4,540	4,695	4,429	4,129
40-49	9,046	8,386	7,794	7,102	6,974	6,747	6,423	6,550	6,568	6,398	5,300	5,634	5,991	6,039	5,965	6,242	5,870	6,088	6,012	6,328	6,003	5,605
50-59	13,347	13,202	12,808	11,363	10,966	10,737	10,479	10,157	9,757	8,903	7,087	6,788	6,713	6,318	5,913	5,958	5,660	5,852	6,055	6,323	6,020	6,054
60 years old or more	5,706	5,608	5,525	5,188	5,356	5,296	5,414	5,380	5,687	5,973	5,093	5,245	5,312	5,272	5,252	5,317	5,467	5,516	5,591	6,096	6,007	5,827
total	43,998	43,553	42,068	38,323	38,145	37,593	36,694	36,670	36,196	34,464	27,995	28,643	28,872	28,291	27,077	27,452	26,391	26,454	26,674	27,842	26,873	25,675

Workers' number of workplace of industrial accidents in manufacturing 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	11,796	11,748	11,325	10,331	10,349	9,994	9,163	8,863	8,058	7,236	6,163	5,906	5,920	5,539	5,197	5,112	4,800	4,582	4,450	4,542	4,155	3,832
10-29	13,095	12,791	12,633	11,311	11,034	10,866	10,619	10,200	9,724	9,250	7,615	7,516	7,461	7,516	7,114	7,209	6,853	6,610	6,604	6,745	6,498	6,196

30-49	6,252	6,265	5,845	5,330	5,316	5,217	5,208	5,326	5,282	5,065	3,968	4,059	4,167	4,117	4,017	4,053	3,956	3,952	3,988	4,169	4,023	3,812
50-99	5,463	5,486	5,251	4,789	4,785	4,838	4,655	4,874	4,895	4,697	3,756	4,114	4,199	4,110	3,943	3,991	3,842	4,027	4,106	4,325	4,294	4,162
100-299	5,056	4,896	4,680	4,483	4,511	4,495	4,691	4,920	5,328	5,402	4,352	4,639	4,563	4,510	4,421	4,500	4,543	4,691	4,773	5,148	4,974	4,821
300 workers or more	2,336	2,367	2,334	2,079	2,150	2,183	2,358	2,487	2,909	2,814	2,141	2,409	2,562	2,499	2,385	2,587	2,397	2,592	2,753	2,913	2,929	2,852
total	43,998	43,553	42,068	38,323	38,145	37,593	36,694	36,670	36,196	34,464	27,995	28,643	28,872	28,291	27,077	27,452	26,391	26,454	26,674	27,842	26,873	25,675

Month of industrial accidents in manufacturing 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	3,466	3,314	3,547	3,035	3,134	3,100	2,945	3,074	2,900	2,900	2,591	2,343	2,424	2,402	2,237	2,290	2,252	2,341	2,209	2,509	2,251	2,216
February	3,777	3,878	3,508	2,981	3,121	2,883	3,029	3,118	2,938	3,171	2,269	2,321	2,250	2,647	2,163	2,457	2,104	2,269	2,212	2,340	2,234	2,194
March	3,849	3,842	3,869	3,254	3,264	3,414	3,314	3,146	3,182	2,982	2,398	2,451	2,813	2,477	2,256	2,266	2,317	2,246	2,353	2,355	2,242	2,134
April	3,535	3,382	3,508	3,215	3,118	3,111	2,920	2,968	2,974	2,898	2,378	2,283	2,201	2,257	2,193	2,182	2,124	2,209	2,071	2,098	2,102	2,054
May	3,557	3,529	3,543	3,288	3,201	2,903	2,865	2,982	3,080	2,850	2,154	2,204	2,193	2,284	2,218	2,273	2,090	2,046	2,123	2,229	2,154	1,839
June	3,832	3,730	3,664	3,053	3,341	3,372	3,227	3,084	3,097	2,885	2,290	2,549	2,525	2,412	2,158	2,297	2,374	2,246	2,315	2,390	2,266	2,239
July	3,940	3,754	3,758	3,600	3,386	3,421	3,236	3,145	3,259	3,178	2,462	2,586	2,449	2,451	2,505	2,438	2,463	2,249	2,326	2,607	2,572	2,216
August	3,611	3,647	3,355	3,078	3,119	3,011	3,197	3,118	3,133	2,667	2,236	2,410	2,397	2,430	2,209	2,195	2,074	2,206	2,265	2,277	2,199	2,133
September	3,916	3,755	3,370	3,269	3,323	3,275	3,133	3,080	2,918	2,905	2,348	2,505	2,507	2,280	2,239	2,383	2,166	2,240	2,200	2,183	2,291	2,097
October	3,659	3,823	3,620	3,514	3,358	3,323	3,076	3,149	3,167	2,986	2,406	2,431	2,418	2,284	2,462	2,380	2,302	2,206	2,310	2,479	2,299	2,297
November	3,498	3,511	3,241	3,219	2,921	2,950	2,961	3,017	2,849	2,619	2,254	2,383	2,376	2,235	2,335	2,145	2,114	2,197	2,179	2,286	2,194	2,011
December	3,358	3,388	3,085	2,817	2,859	2,830	2,791	2,789	2,699	2,423	2,209	2,177	2,319	2,132	2,102	2,146	2,011	1,999	2,111	2,089	2,069	2,245
total	43,998	43,553	42,068	38,323	38,145	37,593	36,694	36,670	36,196	34,464	27,995	28,643	28,872	28,291	27,077	27,452	26,391	26,454	26,674	27,842	26,873	25,675

Nagano	746	730	703		628		616	676	601	606	461	502	559	522	551	532	549	518	551	558	550	514
Gifu	1,249	1,223	1,139		1,026		964	1,021	1,017	926	691	730	716	718	716	701	696	707	673	766	703	700
Shizuoka	2,252	2,240	2,106		1,942		1,810	1,857	1,919	1,769	1,321	1,387	1,413	1,399	1,227	1,342	1,391	1,310	1,327	1,434	1,429	1,267
Aichi	3,372	3,313	3,216		2,903		2,791	2,743	2,705	2,429	1,974	2,119	2,120	2,060	2,037	2,027	1,902	1,904	1,938	1,986	1,895	1,889
Mie	1,029	1,037	1,017		900		865	848	935	858	633	703	666	642	618	651	649	590	603	588	653	486
Shiga	530	551	515		591		538	544	535	539	369	388	392	391	462	451	420	414	406	438	397	366
Kyoto	755	686	735		611		604	613	628	564	502	481	524	477	480	423	466	435	483	458	448	449
Osaka	3,582	3,645	3,516		3,069		2,834	2,985	2,828	2,588	2,168	2,206	2,132	2,076	1,900	1,915	1,857	1,798	1,854	1,885	1,779	1,591
Hyogo	1,927	2,005	1,837		1,798		1,672	1,660	1,620	1,590	1,300	1,322	1,339	1,271	1,176	1,162	1,169	1,132	1,159	1,209	1,182	1,119
Nara	445	450	473		425		471	397	419	405	355	347	311	333	311	341	321	302	309	331	340	269
Wakayama	486	478	438		429		387	387	401	380	296	308	332	301	295	277	276	241	276	265	226	269
Tottori	171	212	177		147		129	137	148	132	109	115	104	102	98	114	101	94	95	109	115	119
Shimane	293	285	269		228		218	216	203	201	144	167	147	144	141	158	153	136	161	183	134	142
Okayama	770	739	772		720		710	711	757	686	515	543	578	576	544	577	483	488	583	585	572	693
Hiroshima	1,375	1,372	1,358		1,217		1,256	1,183	1,142	1,120	837	861	863	908	822	859	769	845	875	893	882	776
Yamaguchi	575	544	502		512		458	455	449	429	340	318	303	331	308	301	316	291	290	282	329	328
Tokushima	430	394	349		294		320	262	259	239	217	204	207	197	217	176	199	182	206	191	185	170
Kagawa	621	585	547		514		536	468	497	463	402	383	379	369	345	385	331	314	316	368	352	319
Ehime	776	755	784		683		670	588	607	641	470	493	502	454	434	481	416	441	429	396	412	445
Kochi	392	403	384		360		289	264	264	261	219	229	198	186	163	185	202	193	188	180	187	177
Fukuoka	1,532	1,579	1,501		1,388		1,326	1,242	1,330	1,274	1,095	1,011	1,057	971	1,016	963	968	959	947	1,028	962	946
Saga	343	349	302		298		301	321	327	352	224	253	293	279	289	243	239	291	314	325	302	318
Nagasaki	529	473	463		399		388	429	375	358	348	371	363	356	317	364	323	343	328	327	353	344

Kumamoto	596	555	530		513		486	473	524	428	389	369	374	339	369	350	371	358	365	385	393	368
Oita	470	471	443		411		340	405	367	371	313	295	265	279	240	258	258	247	244	276	234	245
Miyazaki	476	419	440		388		368	356	365	343	324	353	324	333	299	268	286	303	276	277	280	302
Kagoshima	545	521	519		434		458	453	390	384	372	347	371	357	356	351	321	382	377	370	385	378
Okinawa	177	174	177		159		156	137	152	143	145	151	150	171	170	160	124	167	159	153	168	171
total	43,998	43,553	42,068		38,145		36,694	36,670	36,196	34,464	27,995	28,643	28,872	28,291	27,077	27,452	26,391	26,454	26,674	27,842	26,873	25,675

Industrial accidents mean fatal and non-fatal injuries and occupational diseases 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)

Return to https://www.jisha.or.jp/english/statistics/2020em_industry.html

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 Fatal accidents in manufacturing in Japan in 1999-2020

manufacturing industry Code No.01

Type of fatal accidents in manufacturing 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	54	41	60	43	41	48	36	46	46	40	32	40	31	38	24	26	26	25	28	29	23	21
falling to same level	10	6	8	4	4	4	7	4	9	5	5	6	8	7	9	5	7	6	2	6	5	6
crash	1	1	2	0	4	1	2	5	1	6	1	0	2	0	4	2	0	0	2	0	0	1
struck by flying or falling object	24	25	25	21	24	29	23	33	19	26	16	14	11	14	20	12	10	14	7	12	8	11

no causal agent	0	0	0	2	1	0	6	1	7	7	0	7	9	7	6	7	10	13	6	5	8	2
unclassifiable	1	0	3	0	1	1	3	1	0	1	2	0	1	0	2	0	2	0	0	2	5	2
total	344	323	326	275	293	293	256	268	264	260	186	211	522	199	201	180	160	177	160	183	141	136

Causal agents (small) of fatal accidents in manufacturing 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	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power transmission mechanism	1	7	2	2	3	3	0	4	1	4	2	1	0	1	3	2	1	4	0	1	0	0	
circular sawing machine	3	4	2	1	2	3	1	0	1	2	1	0	1	1	0	0	1	0	0	0	1	0	
band sawing machine	2	0	2	0	2	0	1	2	1	0	0	1	2	0	0	3	0	0	0	1	1	0	
wood planer machine	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
hollow chisel mortiser, wood borer	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
chamfering machine, router, woodworking milling machine	1	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	
chain saw	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
other woodworking machines	2	4	5	3	0	2	3	1	1	2	0	0	2	1	3	0	2	0	1	5	3	2	
leveling, transporting or loading machine	4	2	2	3	1	3	4	2	4	5	4	1	0	1	2	3	0	1	1	0	4	2	
excavating machine	2	0	1	0	0	2	1	1	0	0	1	1	1	0	3	0	2	1	0	0	0	0	
foundation work machine	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
hardening machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
demolition machine	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	
vehicle for high lift work	2	1	2	1	1	2	0	2	3	2	0	0	0	1	0	1	0	0	1	0	1	0	
other construction machines	0	1	0	1	1	0	0	1	0	0	0	2	0	1	0	0	0	0	1	1	0	0	

lathe	4	4	8	2	2	2	1	3	3	3	3	3	3	3	5	5	1	5	1	1	1	1
drill press, milling machine	3	2	1	2	3	0	3	2	1	0	2	1	0	2	4	1	0	2	0	1	2	1
grinding machine, buffing machine	1	0	0	2	2	1	0	0	0	1	0	2	1	1	1	0	1	1	0	0	0	2
power press	2	2	3	4	0	3	0	2	1	2	1	0	1	2	2	2	0	0	1	0	0	2
forging pressure hammer	0	0	1	1	0	0	1	0	3	1	0	1	0	0	0	0	0	0	0	0	0	0
shearing machine	0	1	0	0	2	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0
other metal manufacturing machines	5	9	2	6	4	7	3	13	5	5	0	8	1	7	6	4	3	1	3	3	2	3
centrifugal machine	0	0	5	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
mixer, grinder	8	6	7	6	7	5	5	5	5	7	3	5	2	5	5	4	3	3	3	2	3	2
roll machine (except printingroll machine)	4	8	5	2	5	5	3	2	3	9	2	3	1	6	1	4	3	2	2	0	0	3
injection molding machine	2	1	2	3	1	1	1	1	1	2	3	0	3	2	2	0	1	0	1	2	1	0
food manufacturing machine	2	3	0	2	5	3	4	3	0	2	3	1	0	0	1	3	0	2	4	0	3	1
printing machine	2	0	0	1	1	0	0	0	1	0	1	1	2	0	2	1	0	0	0	1	0	0
industrial robot	0	1	1	2	6	1	1	2	4	1	2	2	1	2	2	3	2	3	1	1	2	1
other general power machines	28	26	19	20	18	20	18	17	13	18	15	10	13	9	8	13	15	10	15	12	9	13
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
crane	18	15	16	13	19	10	15	10	14	13	10	14	10	9	8	6	5	20	8	8	12	3
mobile crane	0	5	3	3	3	7	4	3	3	2	1	1	1	0	2	1	1	1	2	2	1	3
derrick crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
elevator, lift	3	3	7	7	5	4	2	6	6	4	3	2	4	2	1	4	4	4	3	1	1	1

cargo lifting appliance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
gondola	1	0	0	0	0	0	0	0	0	0	0	0	0	1	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	0	0	0	0	0
simple skyline yarding equipment																	0	0	0	0	0	0	0
other powered crane	0	1	1	3	2	1	1	1	2	0	0	2	0	0	0	0	0	0	0	0	0	2	0
truck	29	31	22	19	18	26	16	13	20	21	12	22	10	11	14	16	9	10	14	7	9	12	
forklift	28	15	19	19	14	17	10	10	8	12	15	11	16	12	13	12	8	6	4	11	7	7	
railway equipment	1	0	0	3	1	0	1	2	1	1	0	0	1	0	0	1	0	2	0	0	0	0	0
conveyor	14	16	5	11	13	12	5	10	14	9	5	11	5	7	7	12	5	11	7	14	3	4	
loader	0	1	1	1	0	4	0	1	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
straddle carrier	0	0	0	0	0	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	0	1	0	1	
other powered conveying machines	9	3	9	5	8	6	7	5	1	1	6	7	6	6	4	4	2	2	7	1	4	2	
cars, bus, motorcycle	30	22	23	22	19	18	26	9	8	7	10	4	8	7	6	8	1	7	4	5	5	3	
railway vehicle	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
other vehicles	0	3	2	2	3	1	2	0	2	2	1	2	1	0	0	1	0	1	3	0	0	0	
boiler	0	0	0	0	0	0	1	2	0	0	0	1	0	0	0	0	0	0	0	1	0	0	
pressure vessel	1	2	3	0	0	1	0	2	1	0	0	0	0	1	0	0	0	0	1	0	0	0	
other pressure vessels	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	
chemical facilities	0	0	4	1	0	0	0	0	0	2	5	0	2	1	2	3	1	2	0	1	0	1	
gas welding equipment	0	0	1	0	0	0	0	0	1	2	0	0	0	3	1	0	3	1	1	0	0	1	
arc welding equipment	2	3	2	1	3	1	2	1	3	2	0	1	0	0	0	1	2	3	1	2	0	0	
other welding equipment	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	

kiln, caldron	3	0	5	3	1	4	0	2	10	0	3	0	0	2	4	2	1	3	3	0	1	1
industrial dryer	1	0	1	0	2	1	2	0	0	2	0	0	0	1	0	0	0	1	0	0	1	0
other kiln, caldron	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission	1	3	0	0	0	2	1	1	0	0	1	1	1	1	1	0	0	0	0	0	1	0
electric power facilities	1	1	3	1	2	0	1	2	1	3	1	0	1	0	2	0	0	0	0	0	0	0
other electrical equipment	1	2	0	1	0	0	1	0	0	1	1	1	2	1	0	0	0	0	0	0	0	0
human power cranes	2	1	1	0	0	1	0	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0
human power hauling equipment	1	0	2	2	0	2	2	1	2	1	0	0	0	1	0	0	1	1	0	2	2	1
human power machine	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
hand tool	0	2	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
ladder	4	3	9	5	5	4	4	7	9	9	4	5	3	2	0	1	0	3	5	5	0	3
slinging tool	7	8	7	8	7	6	8	11	7	10	6	2	6	3	8	5	4	7	3	8	2	5
other tools	5	2	0	2	2	5	0	2	0	4	3	2	1	1	0	1	0	0	1	2	1	0
other equipment, facilities	7	9	5	6	9	9	6	5	8	9	3	9	4	6	8	9	10	7	3	9	7	5
scaffolding	2	4	2	4	0	2	4	0	0	1	1	3	2	0	4	0	0	1	0	2	0	1
timbering	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stairs, landing stage	2	2	4	2	0	2	0	6	5	2	4	3	1	3	2	1	2	0	3	3	2	1
opening	1	1	2	1	2	3	4	1	0	2	2	2	1	4	0	0	5	2	1	1	2	1
roof, beam, haze, crossbeam, principal rafter	8	3	6	4	6	7	2	1	3	4	3	2	4	5	1	2	2	5	6	1	2	3
working platform, boot board	5	4	6	3	1	4	1	6	4	0	5	5	1	4	2	4	4	0	2	3	0	1
passage	1	0	2	1	1	1	3	1	4	0	0	4	4	1	2	1	1	1	0	1	1	3
building, establishment	14	10	17	9	13	8	6	15	12	11	5	8	4	10	4	5	7	3	5	4	4	6
other temporary buildings, establishments	5	2	2	1	3	1	3	2	2	0	1	3	3	2	1	0	0	3	2	0	1	2

explosive substance	2	2	0	1	10	1	4	1	0	1	3	0	0	1	0	0	0	0	1	2	0	0
inflammable substance	3	7	4	3	7	6	1	6	5	1	1	2	3	2	6	2	0	0	2	2	0	0
inflammable gas	0	1	3	1	1	1	0	0	5	1	0	0	1	2	2	1	0	1	0	0	0	0
harmful substance	8	9	4	9	7	9	6	7	4	3	7	4	3	5	5	3	5	2	5	6	4	0
radiation	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances	2	6	1	1	2	1	0	2	4	3	0	0	3	1	0	1	0	0	2	2	2	2
metal material	10	12	16	11	8	5	10	12	13	15	4	8	7	8	12	4	11	3	9	9	4	3
lumber, bamboo	2	3	3	1	1	1	2	3	1	0	1	0	1	0	0	0	1	0	1	1	0	0
stone, sand, substance	2	2	3	0	1	0	3	0	0	0	0	0	3	1	0	2	1	1	0	1	0	0
other materials	1	1	2	2	2	4	3	1	1	1	1	0	0	2	2	0	2	2	1	0	0	0
load	7	8	11	6	10	8	5	11	10	5	0	4	4	5	2	2	3	5	2	5	4	2
machine/equipment as load	1	1	2	0	1	3	4	2	1	2	2	1	1	1	1	1	1	0	0	0	2	0
natural ground, rock	2	1	0	1	0	0	1	1	0	1	0	1	1	0	0	0	0	0	0	4	1	0
standing tree	1	1	0	0	0	0	1	0	0	1	0	0	0	0	1	2	1	0	1	2	1	1
water	1	3	2	1	2	4	1	3	3	2	1	1	340	1	0	0	1	1	0	2	0	3
abnormal environment	1	2	4	3	1	1	2	3	2	3	4	0	1	2	4	1	1	1	2	5	0	6
high/cold temperature environment	5	1	3	1	4	3	4	1	2	5	1	11	1	4	11	1	4	0	1	5	4	6
other environments	1	2	0	1	1	0	1	4	0	0	1	0	3	1	0	1	1	3	1	2	0	0
other causal agent	6	0	0	1	1	11	3	3	0	2	3	1	1	0	0	1	0	0	0	1	1	4
no causal agent	0	0	0	2	1	0	6	1	7	7	0	7	9	7	6	7	10	13	6	5	8	2
unclassifiable	1	0	3	0	1	1	3	1	0	1	2	0	1	0	2	0	2	0	0	2	5	2
total	344	323	326	275	293	293	256	268	264	260	186	211	522	199	201	180	160	177	160	183	141	136

Yamagata	6	2	4	4	0	4	1	1	2	6	2	3	2	0	3	2	2	2	1	2	0	1
Fukushima	8	4	5	5	8	6	6	2	8	7	1	5	28	2	1	6	1	2	2	2	5	2
Ibaraki	17	10	13	8	6	6	11	2	10	10	7	6	2	7	7	9	2	4	2	3	11	2
Tochigi	5	6	9	6	6	5	5	7	1	7	7	5	2	3	1	5	3	1	3	2	4	2
Gunma	6	12	14	6	2	4	3	7	6	4	5	4	1	2	7	5	3	3	7	3	1	2
Saitama	12	14	13	14	13	12	12	6	10	5	6	10	6	15	10	7	6	9	3	8	4	4
Chiba	12	13	13	18	11	15	11	9	15	13	6	10	8	7	9	11	11	7	8	10	3	8
Tokyo	11	8	8	9	3	7	6	4	3	5	3	6	5	9	4	5	4	5	0	3	7	1
Kanagawa	12	14	12	9	16	5	11	8	16	6	6	8	8	13	5	8	4	3	6	6	2	5
Niigata	7	6	1	7	5	6	6	8	8	5	4	4	3	2	9	3	2	4	1	4	1	0
Toyama	7	6	2	5	8	4	5	6	2	6	1	2	1	3	3	2	3	6	1	6	6	3
Ishikawa	1	1	2	6	1	4	1	3	1	3	4	3	2	0	1	2	0	2	2	3	0	2
Fukui	3	2	2	2	2	1	0	0	4	4	2	2	1	2	8	3	0	3	0	4	7	1
Yamanashi	1	2	4	5	2	2	1	2	2	5	2	2	4	0	1	2	1	1	3	3	1	1
Nagano	6	9	6	4	2	8	2	5	3	0	0	4	5	2	2	1	3	4	3	4	3	4
Gifu	15	6	4	10	9	10	4	4	4	10	6	4	5	4	10	2	9	4	4	3	2	2
Shizuoka	16	25	13	8	15	12	9	12	8	14	9	9	10	4	10	7	9	8	13	7	5	6
Aichi	23	23	24	13	26	21	18	28	23	18	7	10	11	18	17	14	7	9	11	20	9	11
Mie	7	8	7	6	6	10	9	6	7	6	7	10	3	6	5	5	5	1	3	2	1	1
Shiga	7	12	2	0	6	5	6	4	4	3	4	4	2	2	2	1	1	5	4	2	4	5
Kyoto	6	5	6	4	5	5	0	10	2	7	3	4	4	0	3	2	2	0	3	1	1	1
Osaka	20	22	21	16	21	24	18	31	20	14	14	12	14	14	14	10	11	11	11	10	6	9
Hyogo	15	12	29	17	18	13	14	18	17	8	8	19	11	9	7	13	10	13	8	6	6	5

Nara	3	2	3	0	3	4	1	1	3	2	2	2	1	1	2	1	1	7	1	2	2	1
Wakayama	8	4	4	1	0	3	6	5	5	3	0	1	3	2	1	3	3	3	2	2	0	1
Tottori	0	1	1	0	0	0	5	2	2	0	1	1	1	0	0	0	0	1	1	1	0	1
Shimane	2	4	1	2	4	0	3	0	1	0	1	1	3	1	3	0	0	0	1	1	0	1
Okayama	7	6	10	4	6	6	3	4	7	5	4	5	4	7	6	1	5	4	5	5	2	3
Hiroshima	13	11	7	8	10	17	9	11	6	19	5	10	6	5	5	5	5	6	8	12	10	5
Yamaguchi	5	3	3	11	5	2	5	3	6	5	5	2	3	4	4	2	5	3	3	3	1	1
Tokushima	4	8	3	2	2	1	1	0	0	1	3	3	2	1	2	3	0	3	1	2	2	0
Kagawa	5	2	3	6	6	4	3	2	5	3	1	0	7	7	5	2	2	2	2	0	1	5
Ehime	8	8	10	4	7	7	8	4	8	9	7	5	4	5	5	2	4	6	5	2	3	6
Kochi	5	1	2	2	0	4	3	0	3	0	3	2	0	1	2	1	1	0	0	2	3	0
Fukuoka	13	10	5	11	18	10	6	8	3	8	8	6	7	9	4	8	7	5	7	4	4	6
Saga	2	1	3	0	2	1	0	2	1	1	1	0	1	0	2	2	1	0	0	3	1	4
Nagasaki	2	3	4	6	1	1	5	6	2	2	4	4	5	3	2	4	2	1	2	2	2	5
Kumamoto	2	5	6	2	1	3	2	4	4	5	4	5	2	2	2	0	5	4	1	3	3	1
Oita	8	4	0	3	3	3	5	5	3	4	9	2	3	4	2	5	2	3	3	1	2	1
Miyazaki	4	2	6	2	4	2	3	1	2	1	2	4	1	1	0	2	1	2	2	1	0	1
Kagoshima	3	2	2	3	9	4	2	2	6	3	1	1	3	3	1	4	2	2	1	1	2	2
Okinawa	3	2	1	1	1	0	1	1	3	1	0	0	1	2	1	1	0	0	1	0	1	0
total	344	323	326	275	293	293	256	268	264	260	186	211	522	199	201	180	160	177	160	183	141	136

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

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