

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	2,342
other equipments, facilities	1,005	968	959	932	859	939	1,027	954	961	952	780	822	800	810	794	861	818	826	811	802	781	765	900
temporary buildings, establishments	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	5,556
hazards, harmful substances	511	521	535	538	515	517	478	513	483	404	337	365	398	347	399	396	373	358	359	337	339	317	336
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	2,105
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	1,499
natural environment	449	439	506	385	403	423	429	472	367	402	282	471	837	539	552	596	394	508	532	783	514	572	465
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	2,425
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	1,263
unclassifiable	96	83	84	58	74	58	71	55	72	65	62	33	33	41	44	41	39	28	38	62	36	16	22
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	28,605

Causal agents (small) of industrial accidents in 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
engine			34		26		16	16	20	15	20	14	12	19	10	8	13	6	17	18	13	7	11
power transmission mechanism			395		324		376	329	306	311	263	287	254	257	243	233	257	207	252	245	204	199	199

circular sawing machine			993		946		787	733	674	618	536	553	504	457	434	473	423	393	356	375	375	348	345
band sawing machine			203		159		134	99	121	86	88	65	82	66	68	67	54	52	50	53	36	50	42
wood planer machine			216		180		152	135	125	142	120	114	129	75	89	95	69	67	67	69	80	66	71
hollow chisel mortiser, wood borer			66		41		33	29	44	32	23	21	23	22	33	21	24	23	19	21	13	16	6
chamfering machine, router, woodworking milling machine			92		87		53	42	57	54	34	27	35	30	32	33	27	25	22	34	22	22	23
chain saw			27		34		17	26	17	25	23	23	11	26	12	17	9	11	15	8	10	18	23
other woodworking machines			567		493		435	403	412	331	262	279	293	312	254	272	238	247	233	218	224	186	209
leveling, transporting or loading machine			49		39		36	25	29	32	29	34	37	34	32	25	26	24	27	18	30	28	32
excavating machine			48		34		65	48	49	35	39	43	16	35	34	31	22	20	35	25	31	27	33
foundation work machine			2		5		6	3	2	3	3	1	2	2	2	1	4	2	2	4	2	2	2
hardening machine			5		2		2	3	3	1	1	3	2	1	1	1	2	1	2	1	1	2	2
demolition machine			6		1		5	9	7	3	2	5	0	3	0	5	4	12	8	8	5	7	7
vehicle for high lift work			13		9		12	14	14	14	10	13	7	14	11	5	9	9	13	6	14	16	6
other construction machines			31		28		26	31	16	27	18	13	17	21	19	23	13	18	9	15	11	12	17
lathe			505		413		380	420	350	363	275	290	292	322	263	224	276	231	202	240	217	213	225
drill press, milling			649		536		529	497	482	453	298	309	299	275	292	292	302	270	215	235	219	212	202

skyline yarding machine																	0	0	0	0	0	0	0
other mobile silviculture machine																	1	0	1	1	0	1	0
crane			963		856		883	849	843	847	607	615	631	625	534	590	544	556	559	595	601	496	550
mobile crane			110		87		76	88	89	77	60	62	61	55	55	60	50	58	53	51	50	47	51
derrick crane			2		2		0	0	0	0	0	2	1	0	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	53
cargo lifting appliance			4		0		3	0	3	0	1	1	2	0	0	1	0	2	0	3	1	3	2
gondola			1		2		0	1	1	4	0	3	0	1	2	2	1	1	0	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	0
simple skyline yarding equipment																	0	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	34
truck			1,233		1,091		986	1,001	1,025	855	769	770	703	752	768	761	708	763	797	783	772	752	764
forklift			970		942		952	894	922	909	684	645	664	671	621	649	614	633	638	653	652	596	620
railway equipment			17		11		14	21	15	24	14	6	11	13	12	13	7	7	6	6	16	8	5
conveyor			1,030		995		895	918	931	879	683	760	708	678	714	699	623	629	651	620	599	575	625
loader			19		16		11	13	14	11	10	13	10	12	7	14	10	7	15	9	16	9	14
straddle carrier			0		1		0	1	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1
rough terrain hauler			6		7		6	3	1	4	7	1	3	2	0	1	1	4	1	4	1	0	1
other powered conveying machines			184		199		182	166	173	139	125	154	128	121	101	125	114	109	131	121	133	107	113

cars, bus, motorcycle			717		578		570	559	575	537	449	520	457	360	413	372	390	372	365	393	378	326	342
railway vehicle			4		6		9	4	2	5	1	3	2	6	4	3	5	4	4	1	6	3	6
other vehicles			68		57		44	48	51	50	61	35	32	38	28	43	32	30	26	42	30	26	36
boiler			12		10		17	17	23	9	13	10	7	7	8	8	4	4	8	7	7	5	5
pressure vessel			45		31		30	29	24	28	27	16	19	31	17	12	20	15	24	12	20	17	17
other pressure vessels			33		26		26	20	26	24	21	15	10	22	12	16	6	14	14	21	9	9	16
chemical facilities			20		32		37	30	27	28	20	16	24	24	13	24	19	26	19	29	22	14	33
gas welding equipment			59		45		52	38	52	45	55	27	39	42	34	30	31	31	37	34	30	26	15
arc welding equipment			79		70		87	88	100	88	76	48	57	60	67	62	48	76	52	55	49	56	54
other welding equipment			134		107		100	99	90	102	49	51	45	68	73	83	66	65	65	56	62	56	66
kiln, caldron			140		133		102	94	108	118	93	120	75	80	105	91	83	70	95	76	105	89	95
industrial dryer			24		18		25	17	14	22	24	18	22	15	20	25	12	11	21	13	21	20	14
other kiln, caldron			16		18		6	15	15	7	13	8	7	6	9	7	10	19	8	15	8	12	5
transmission			28		20		28	29	37	28	29	14	20	30	25	16	35	27	32	31	34	34	32
electric power facilities			26		29		20	16	23	33	18	29	16	18	12	12	18	12	10	18	8	12	15
other electrical equipment			42		31		39	26	20	36	18	27	39	23	20	27	18	22	20	22	20	18	17
human power cranes			46		45		39	42	38	39	22	27	32	26	19	23	24	25	27	24	123	130	210
human power hauling equipment			778		801		872	825	888	886	695	764	787	787	764	802	800	873	830	879	897	842	811
human power machine			84		59		42	46	53	46	36	45	39	37	37	54	46	35	44	34	32	32	23
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	751
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	1,004

substances			218		193		158	176	182	154	144	134	159	133	170	150	141	154	164	140	158	162	164
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	1,468
lumber, bamboo			790		628		560	511	491	383	312	311	299	299	319	280	268	262	243	264	231	242	246
stone, sand, substance			198		148		119	115	89	97	73	72	65	76	63	86	71	50	54	45	43	36	37
other materials			616		531		492	580	526	466	397	447	431	422	413	367	369	335	387	360	354	308	354
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	1,387
machine/equipment as load			323		252		241	255	246	219	175	172	161	162	153	123	138	140	104	136	126	113	112
natural ground, rock			33		34		32	40	34	31	17	29	22	26	22	17	24	24	17	35	22	25	19
standing tree			26		27		16	23	15	17	20	22	18	18	17	22	10	11	20	22	21	16	10
water			27		39		34	47	33	34	21	19	374	31	34	32	18	30	26	30	31	41	15
abnormal environment			8		7		4	12	13	9	12	6	7	8	13	6	2	3	8	13	5	14	4
high/cold temperature environment			142		90		94	128	110	122	77	214	142	160	173	180	141	163	174	319	249	267	172
other environments			270		206		249	222	162	189	135	181	274	296	293	339	199	277	287	364	186	209	245
other causal agent			427		343		339	354	375	333	221	218	305	252	305	284	278	235	276	291	274	578	2,425
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	1,263
unclassifiable			84		74		71	55	72	65	62	33	33	41	44	41	39	28	38	62	36	16	22
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	28,605

Workers age of industrial accidents in 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
19 years old or	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	465

Ibaraki	1,099	1,157	1,145		987		961	958	983	972	784	823	847	873	790	838	813	782	850	894	884	833	888
Tochigi	798	751	723		707		678	627	603	623	506	498	534	603	537	544	546	569	524	551	548	503	603
Gunma	1,188	1,133	1,080		989		955	972	949	865	713	730	760	751	727	800	709	772	697	792	729	731	784
Saitama	1,950	1,961	1,987		2,004		1,946	1,891	1,942	1,862	1,525	1,526	1,406	1,486	1,383	1,504	1,401	1,407	1,396	1,427	1,464	1,366	1,620
Chiba	1,399	1,372	1,331		1,163		1,102	1,205	1,196	1,165	1,097	1,077	985	1,043	976	971	1,006	969	904	1,012	905	910	1,074
Tokyo	1,652	1,527	1,480		1,350		1,240	1,177	1,105	1,119	897	865	847	810	750	726	696	696	639	735	712	621	674
Kanagawa	1,727	1,710	1,595		1,468		1,523	1,494	1,373	1,367	1,103	1,169	1,122	1,126	1,035	1,076	1,005	1,012	1,022	1,044	1,061	924	1,109
Niigata	1,104	1,052	1,070		934		856	943	881	840	663	750	748	706	705	721	676	679	764	723	706	700	810
Toyama	597	571	525		490		452	480	463	424	356	362	368	366	328	359	297	347	332	336	299	309	337
Ishikawa	386	406	425		359		396	397	374	400	259	266	307	295	285	299	274	249	319	302	265	256	283
Fukui	367	352	357		231		278	288	272	255	227	206	236	252	223	230	217	250	211	306	229	195	199
Yamanashi	250	257	246		223		218	249	215	236	171	170	213	190	217	229	167	182	190	210	210	161	206
Nagano	746	730	703		628		616	676	601	606	461	502	559	522	551	532	549	518	551	558	550	514	574
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	823
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	1,383
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	2,021
Mie	1,029	1,037	1,017		900		865	848	935	858	633	703	666	642	618	651	649	590	603	588	653	486	774
Shiga	530	551	515		591		538	544	535	539	369	388	392	391	462	451	420	414	406	438	397	366	516
Kyoto	755	686	735		611		604	613	628	564	502	481	524	477	480	423	466	435	483	458	448	449	471
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	1,844
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	1,189
Nara	445	450	473		425		471	397	419	405	355	347	311	333	311	341	321	302	309	331	340	269	365
Wakayama	486	478	438		429		387	387	401	380	296	308	332	301	295	277	276	241	276	265	226	269	284
Tottori	171	212	177		147		129	137	148	132	109	115	104	102	98	114	101	94	95	109	115	119	141

Shimane	293	285	269		228		218	216	203	201	144	167	147	144	141	158	153	136	161	183	134	142	144
Okayama	770	739	772		720		710	711	757	686	515	543	578	576	544	577	483	488	583	585	572	693	621
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	908
Yamaguchi	575	544	502		512		458	455	449	429	340	318	303	331	308	301	316	291	290	282	329	328	288
Tokushima	430	394	349		294		320	262	259	239	217	204	207	197	217	176	199	182	206	191	185	170	214
Kagawa	621	585	547		514		536	468	497	463	402	383	379	369	345	385	331	314	316	368	352	319	354
Ehime	776	755	784		683		670	588	607	641	470	493	502	454	434	481	416	441	429	396	412	445	385
Kochi	392	403	384		360		289	264	264	261	219	229	198	186	163	185	202	193	188	180	187	177	161
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	980
Saga	343	349	302		298		301	321	327	352	224	253	293	279	289	243	239	291	314	325	302	318	293
Nagasaki	529	473	463		399		388	429	375	358	348	371	363	356	317	364	323	343	328	327	353	344	309
Kumamoto	596	555	530		513		486	473	524	428	389	369	374	339	369	350	371	358	365	385	393	368	412
Oita	470	471	443		411		340	405	367	371	313	295	265	279	240	258	258	247	244	276	234	245	235
Miyazaki	476	419	440		388		368	356	365	343	324	353	324	333	299	268	286	303	276	277	280	302	349
Kagoshima	545	521	519		434		458	453	390	384	372	347	371	357	356	351	321	382	377	370	385	378	384
Okinawa	177	174	177		159		156	137	152	143	145	151	150	171	170	160	124	167	159	153	168	171	203
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	28,605

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)

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reaction to motion/improper motion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
others	2	1	1	2	2	11	8	5	6	9	2	8	79	6	6	8	10	13	6	7	7	6	8
unclassifiable	0	0	2	0	1	1	3	0	0	1	1	1	1	0	1	0	1	1	0	0	0	0	0
total	344	323	326	275	293	293	256	268	264	260	186	211	522	199	201	180	160	177	160	183	141	136	137

Causal agents (middle) of fatal accidents in 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
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	1
woodworking machine	8	10	11	4	4	5	6	3	5	4	1	1	6	2	3	3	3	0	1	6	6	2	2
construction machine	8	4	5	5	4	7	6	6	7	8	6	4	1	3	5	4	3	2	4	1	5	2	2
metal manufacturing machine	15	18	15	17	13	13	8	21	13	12	6	15	6	16	18	13	5	9	5	5	5	9	10
general machine	46	45	39	36	44	35	32	31	27	39	29	22	22	24	21	28	24	21	26	18	18	20	19
mobile silviculture machine																	0	0	0	0	0	0	0
crane	22	24	27	26	29	22	22	20	25	19	14	19	15	12	11	11	10	25	13	11	16	8	14
conveying machine	81	66	56	58	54	65	39	41	45	44	38	51	39	36	38	45	24	32	32	35	23	26	31
vehicle	30	25	25	24	22	19	30	9	10	9	11	6	9	7	6	10	2	8	7	5	5	3	3
pressure vessel	1	2	3	1	0	1	1	5	2	0	0	1	0	1	0	0	0	0	2	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	0
welding equipment	2	3	3	1	4	1	2	1	4	4	0	1	1	4	1	1	6	4	2	2	0	1	1
kiln, caldron	4	0	7	4	3	6	2	2	10	2	3	0	0	3	4	2	1	4	3	0	2	1	1
electric equipment	3	6	3	2	2	2	3	3	1	4	3	2	4	2	3	0	0	0	0	0	1	0	2
human power machine, tools	3	3	3	3	0	3	4	3	2	3	0	0	0	3	0	0	1	2	0	2	2	1	1

tools	16	13	16	15	14	15	12	20	16	23	13	9	10	6	8	7	4	10	9	15	3	8	3
other equipments, facilities	7	9	5	6	9	9	6	5	8	9	3	9	4	6	8	9	10	7	3	9	7	5	3
temporary buildings, establishments	38	26	41	25	26	28	23	32	30	20	21	30	20	29	16	13	21	15	19	15	12	18	15
hazards, harmful substances	16	25	12	15	27	18	11	16	18	9	11	6	10	11	13	7	5	3	10	12	6	2	6
materials	15	18	24	14	12	10	18	16	15	16	6	8	11	11	14	6	15	6	11	11	4	3	5
load	8	9	13	6	11	11	9	13	11	7	2	5	5	6	3	3	4	5	2	5	6	2	5
natural environment	11	10	9	7	8	8	10	12	7	12	7	13	346	8	16	5	8	5	5	20	6	16	4
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	6
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	2
unclassifiable	1	0	3	0	1	1	3	1	0	1	2	0	1	0	2	0	2	0	0	2	5	2	1
total	344	323	326	275	293	293	256	268	264	260	186	211	522	199	201	180	160	177	160	183	141	136	137

Causal agents (small) of fatal accidents in 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
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	1
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	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	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	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	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	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	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	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	1
excavating machine	2	0	1	0	0	2	1	1	0	0	1	1	1	0	3	0	2	1	0	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	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	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	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	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	1
lathe	4	4	8	2	2	2	1	3	3	3	3	3	3	3	5	5	1	5	1	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	2
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	1
power press	2	2	3	4	0	3	0	2	1	2	1	0	1	2	2	2	0	0	1	0	0	2	0
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	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	1
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	5
centrifugal machine	0	0	5	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	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	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	2
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	1
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	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	1
industrial robot	0	1	1	2	6	1	1	2	4	1	2	2	1	2	2	3	2	3	1	1	2	1	2
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	10
felling machine																	0	0	0	0	0	0	0
mobile logging machine																	0	0	0	0	0	0	0

skyline yarding machine																	0	0	0	0	0	0	0
other mobile silviculture machine																	0	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	10
mobile crane	0	5	3	3	3	7	4	3	3	2	1	1	1	0	2	1	1	1	2	2	1	3	1
derrick crane	0	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	2
cargo lifting appliance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
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	2	0	1
truck	29	31	22	19	18	26	16	13	20	21	12	22	10	11	14	16	9	10	14	7	9	12	13
forklift	28	15	19	19	14	17	10	10	8	12	15	11	16	12	13	12	8	6	4	11	7	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	1
conveyor	14	16	5	11	13	12	5	10	14	9	5	11	5	7	7	12	5	11	7	14	3	4	7
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	0
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	3
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	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	0
boiler	0	0	0	0	0	0	1	2	0	0	0	1	0	0	0	0	0	0	0	1	0	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	0

other pressure vessels	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	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	0
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	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	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	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	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	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	0
transmission	1	3	0	0	0	2	1	1	0	0	1	1	1	1	1	0	0	0	0	0	1	0	1
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	1
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	0
human power cranes	2	1	1	0	0	1	0	1	0	1	0	0	0	0	0	0	1	0	0	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	0
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	1
hand tool	0	2	0	0	0	0	2	1	0	0	0	0	0	1	0	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	2
slinging tool	7	8	7	8	7	6	8	11	7	10	6	2	6	3	8	5	4	7	3	8	2	5	1
other tools	5	2	0	2	2	5	0	2	0	4	3	2	1	1	0	1	0	0	1	2	1	0	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	3
scaffolding	2	4	2	4	0	2	4	0	0	1	1	3	2	0	4	0	0	1	0	2	0	1	0
timbering	0	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	1
opening	1	1	2	1	2	3	4	1	0	2	2	2	1	4	0	0	5	2	1	1	2	1	2
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	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	2
passage	1	0	2	1	1	1	3	1	4	0	0	4	4	1	2	1	1	1	0	1	1	3	2
building, establishment	14	10	17	9	13	8	6	15	12	11	5	8	4	10	4	5	7	3	5	4	4	6	4
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	1
explosive substance	2	2	0	1	10	1	4	1	0	1	3	0	0	1	0	0	0	0	1	2	0	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	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	1
harmful substance	8	9	4	9	7	9	6	7	4	3	7	4	3	5	5	3	5	2	5	6	4	0	5
radiation	1	0	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	0
metal material	10	12	16	11	8	5	10	12	13	15	4	8	7	8	12	4	11	3	9	9	4	3	4
lumber, bamboo	2	3	3	1	1	1	2	3	1	0	1	0	1	0	0	0	1	0	1	1	0	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	1
other materials	1	1	2	2	2	4	3	1	1	1	1	0	0	2	2	0	2	2	1	0	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	4
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	1
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	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	1
water	1	3	2	1	2	4	1	3	3	2	1	1	340	1	0	0	1	1	0	2	0	3	0
abnormal environment	1	2	4	3	1	1	2	3	2	3	4	0	1	2	4	1	1	1	2	5	0	6	1
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	2
other environments	1	2	0	1	1	0	1	4	0	0	1	0	3	1	0	1	1	3	1	2	0	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	6
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	2

unclassifiable	1	0	3	0	1	1	3	1	0	1	2	0	1	0	2	0	2	0	0	2	5	2	1
total	344	323	326	275	293	293	256	268	264	260	186	211	522	199	201	180	160	177	160	183	141	136	137

Workers age of fatal accidents in 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
19 years old or less	6	6	10	8	3	4	7	2	2	3	4	5	5	2	3	5	3	1	4	1	2	1	1
20-29	52	40	54	38	34	33	36	38	32	33	20	29	50	22	21	30	15	17	16	23	16	14	11
30-39	43	48	40	39	43	51	39	48	43	43	29	46	82	38	45	28	27	32	21	25	21	17	13
40-49	68	61	61	47	35	48	51	40	39	33	36	47	95	44	39	32	37	41	35	45	32	23	33
50-59	108	103	103	94	117	104	74	89	82	76	52	47	157	54	44	40	40	41	46	50	25	43	34
60 years old or more	67	65	58	49	61	53	49	51	66	72	45	37	133	39	49	45	38	45	38	39	45	38	45
total	344	323	326	275	293	293	256	268	264	260	186	211	522	199	201	180	160	177	160	183	141	136	137

Workers' number of workplace of fatal accidents in 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
9 workers or less	82	74	67	62	72	79	44	56	56	62	37	51	163	42	46	32	39	38	28	44	25	32	34
10-29	95	94	102	70	82	87	87	75	77	59	50	48	131	52	49	56	50	42	51	56	40	30	33
30-49	45	48	57	38	42	28	34	42	38	40	29	32	97	28	29	25	22	30	25	17	15	17	15
50-99	37	40	39	33	39	27	32	39	32	26	18	22	55	25	20	23	15	22	20	17	24	15	21
100-299	41	28	35	36	34	45	25	32	27	37	33	35	50	25	34	32	20	33	25	28	22	25	19
300 workers or more	44	39	26	36	24	27	34	24	34	36	19	23	26	27	23	12	14	12	11	21	15	17	15
total	344	323	326	275	293	293	256	268	264	260	186	211	522	199	201	180	160	177	160	183	141	136	137

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

Nara	3	2	3	0	3	4	1	1	3	2	2	2	1	1	2	1	1	7	1	2	2	1	0
Wakayama	8	4	4	1	0	3	6	5	5	3	0	1	3	2	1	3	3	3	2	2	0	1	1
Tottori	0	1	1	0	0	0	5	2	2	0	1	1	1	0	0	0	0	1	1	1	0	1	1
Shimane	2	4	1	2	4	0	3	0	1	0	1	1	3	1	3	0	0	0	1	1	0	1	0
Okayama	7	6	10	4	6	6	3	4	7	5	4	5	4	7	6	1	5	4	5	5	2	3	1
Hiroshima	13	11	7	8	10	17	9	11	6	19	5	10	6	5	5	5	5	6	8	12	10	5	3
Yamaguchi	5	3	3	11	5	2	5	3	6	5	5	2	3	4	4	2	5	3	3	3	1	1	4
Tokushima	4	8	3	2	2	1	1	0	0	1	3	3	2	1	2	3	0	3	1	2	2	0	0
Kagawa	5	2	3	6	6	4	3	2	5	3	1	0	7	7	5	2	2	2	2	0	1	5	3
Ehime	8	8	10	4	7	7	8	4	8	9	7	5	4	5	5	2	4	6	5	2	3	6	1
Kochi	5	1	2	2	0	4	3	0	3	0	3	2	0	1	2	1	1	0	0	2	3	0	2
Fukuoka	13	10	5	11	18	10	6	8	3	8	8	6	7	9	4	8	7	5	7	4	4	6	5
Saga	2	1	3	0	2	1	0	2	1	1	1	0	1	0	2	2	1	0	0	3	1	4	1
Nagasaki	2	3	4	6	1	1	5	6	2	2	4	4	5	3	2	4	2	1	2	2	2	5	0
Kumamoto	2	5	6	2	1	3	2	4	4	5	4	5	2	2	2	0	5	4	1	3	3	1	0
Oita	8	4	0	3	3	3	5	5	3	4	9	2	3	4	2	5	2	3	3	1	2	1	2
Miyazaki	4	2	6	2	4	2	3	1	2	1	2	4	1	1	0	2	1	2	2	1	0	1	1
Kagoshima	3	2	2	3	9	4	2	2	6	3	1	1	3	3	1	4	2	2	1	1	2	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	2
total	344	323	326	275	293	293	256	268	264	260	186	211	522	199	201	180	160	177	160	183	141	136	137

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

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