

tools	2,866	2,920	3,163	3,091	3,516	3,604	3,609	3,848	3,843	4,119	3,711	3,872	4,000	4,067	4,233	4,176	4,264	4,571	4,906	5,111	5,479	5,340	5,510
other equipments, facilities	1,119	1,147	1,227	1,198	1,140	1,413	1,441	1,501	1,613	1,693	1,595	1,844	1,697	1,793	1,883	1,941	1,931	2,060	1,870	2,026	2,139	2,200	2,427
temporary buildings, establishments	11,715	11,829	12,721	12,576	13,669	13,801	14,423	15,107	14,899	15,516	14,869	15,418	16,101	16,114	16,000	16,726	16,890	18,341	18,734	20,527	20,224	20,868	22,147
hazards, harmful substances	386	376	458	473	441	442	474	429	416	401	363	336	406	398	367	388	368	416	385	373	437	322	325
materials	2,003	1,988	1,972	2,002	1,919	2,041	1,881	2,058	1,947	1,793	1,652	1,608	1,644	1,772	1,687	1,701	1,603	1,585	1,560	1,522	1,567	1,459	1,445
load	2,551	2,638	2,913	2,693	2,816	2,695	2,895	3,087	3,245	3,094	2,717	2,687	2,639	2,760	2,603	2,740	2,763	2,860	2,851	2,948	3,124	3,362	3,376
natural environment	1,869	1,846	2,297	1,839	1,999	2,028	2,267	2,225	1,982	2,048	2,035	2,223	3,112	2,695	2,832	3,160	2,473	2,647	2,831	3,456	2,737	2,904	3,131
other causal agent	2,046	2,145	2,038	1,924	2,038	2,281	2,281	2,414	2,287	2,553	2,171	2,288	2,633	2,471	2,440	2,448	2,676	2,561	2,889	2,678	3,034	8,184	18,331
no causal agent	2,105	1,979	2,187	2,731	2,807	2,691	3,041	2,989	3,233	3,523	3,854	3,968	3,991	4,350	4,292	4,447	4,649	4,649	5,185	6,114	6,226	7,235	8,206
unclassifiable	418	299	348	353	329	334	296	320	342	388	290	262	261	293	272	266	221	171	206	234	166	133	137
total	40,209	40,506	43,243	43,053	45,049	45,744	49,147	50,688	50,076	51,099	48,172	49,320	51,033	51,850	51,420	52,385	52,308	54,280	56,002	60,053	60,208	66,959	80,454

Causal agents (small) of industrial accidents in tertiary industry 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			13		8	0	10	6	11	4	7	9	9	15	6	6	8	14	10	4	9	7	12
power transmission mechanism			72		81	0	64	72	62	75	64	64	66	73	64	61	67	61	62	55	48	52	56

circular sawing machine			96		117	0	111	89	101	90	91	86	84	96	71	65	80	74	73	64	88	86	86
band sawing machine			7		3	0	10	2	6	6	2	5	4	3	3	3	6	2	3	2	3	6	4
wood planer machine			19		11	0	17	19	10	14	5	12	10	11	20	7	11	6	5	10	3	9	12
hollow chisel mortiser, wood borer			3		3	0	2	3	1	3	2	1	0	1	0	0	3	0	0	5	1	1	4
chamfering machine, router, woodworking milling machine			1		1	0	0	4	1	0	1	1	2	2	1	3	3	4	1	1	1	0	2
chain saw			31		33	0	35	35	48	34	44	37	40	51	39	44	40	36	37	42	41	43	45
other woodworking machines			38		32	0	39	35	32	34	31	32	22	33	26	31	29	25	24	30	29	37	36
leveling, transporting or loading machine			64		62	0	75	72	64	72	55	52	58	61	58	42	59	56	55	61	39	56	53
excavating machine			140		145	0	134	126	123	141	128	106	119	106	113	108	109	101	103	112	128	129	110
foundation work machine			5		2	0	2	5	3	4	5	5	4	0	7	7	1	5	3	4	1	0	0
hardening machine			8		13	0	11	13	9	12	9	10	10	5	10	10	11	15	9	4	7	6	8
demolition machine			14		15	0	6	6	7	7	4	6	9	10	20	23	33	33	22	22	33	29	29
vehicle for high lift work			15		10	0	11	14	10	17	18	12	21	7	15	16	20	24	13	9	14	16	15
other construction machines			67		41	0	64	42	42	41	45	41	45	46	61	36	30	30	24	22	19	22	19
lathe			8		3	0	5	4	7	7	5	3	5	8	1	7	4	3	4	4	5	2	1
drill press, milling			7		14	0	13	9	6	14	6	4	12	7	2	1	3	6	4	4	4	4	2

skyline yarding machine																	0	0	0	0	0	0	1
other mobile silviculture machine																	1	0	0	1	3	7	3
crane			83		90	0	89	76	62	70	52	54	54	54	71	65	39	55	48	74	58	47	54
mobile crane			122		129	0	109	88	88	100	104	95	76	83	96	82	92	86	74	77	89	94	95
derrick crane			0		0	0	1	1	3	2	1	1	0	0	0	0	0	0	0	0	1	0	0
elevator, lift			114		106	0	93	112	119	95	100	73	79	90	83	79	84	67	82	90	92	72	80
cargo lifting appliance			1		0	0	1	1	0	0	1	2	1	0	2	0	0	0	1	2	1	0	2
gondola			6		3	0	9	9	4	11	5	5	6	2	2	1	2	2	3	4	2	2	6
lumberyard equipment, logging cableway			4		1	0	0	0	0	1	0	1	0	2	0	0	1	0	0	0	0	1	2
simple skyline yarding equipment																	0	0	0	0	0	0	0
other powered crane			23		30	0	21	33	23	22	20	21	23	32	16	14	21	19	13	30	24	16	22
truck			1,852		1,889	0	1,835	1,809	1,748	1,785	1,588	1,587	1,599	1,701	1,679	1,651	1,639	1,651	1,653	1,627	1,736	1,878	1,742
forklift			500		525	0	513	497	505	493	395	412	434	423	398	408	411	455	448	447	513	469	489
railway equipment			2		3	0	3	3	0	2	0	2	0	2	1	1	3	2	3	3	2	2	2
conveyor			222		242	0	235	234	244	228	215	206	200	220	195	235	212	168	176	175	187	176	161
loader			16		25	0	13	18	10	15	9	9	20	14	9	12	11	16	13	12	13	14	14
straddle carrier			0		0	0	0	2	0	0	1	0	0	0	0	1	2	1	1	1	0	1	1
rough terrain hauler			6		4	0	4	3	1	7	4	5	3	0	5	1	6	4	5	1	3	4	4
other powered conveying machines			266		268	0	242	267	238	233	177	205	209	202	186	185	179	187	205	190	187	173	184

cars, bus, motorcycle			4,567		4,866	0	6,996	7,134	6,869	6,610	6,221	6,126	5,768	5,912	5,813	5,693	5,548	5,518	5,514	5,722	5,416	5,130	5,511
railway vehicle			23		14	0	26	16	14	25	20	13	23	12	16	23	16	17	25	23	23	17	19
other vehicles			394		379	0	397	375	394	311	322	314	371	384	302	238	216	191	225	198	175	169	180
boiler			8		5	0	8	4	8	6	8	3	6	6	6	9	2	3	4	4	5	3	2
pressure vessel			11		12	0	6	5	7	6	6	5	5	7	6	4	4	12	9	8	7	4	2
other pressure vessels			47		41	0	26	23	32	33	29	18	34	33	31	28	26	33	19	17	18	17	27
chemical facilities			2		4	0	13	2	3	3	2	2	2	4	2	3	2	2	5	3	5	3	5
gas welding equipment			6		12	0	12	5	6	12	10	11	7	4	6	7	4	9	6	9	14	6	10
arc welding equipment			8		2	0	3	3	2	1	5	2	2	0	5	2	7	4	5	5	6	3	6
other welding equipment			2		2	0	2	4	2	5	1	2	3	2	1	1	1	2	0	0	4	2	3
kiln, caldron			52		56	0	67	75	55	64	69	66	63	67	61	49	47	45	68	91	100	71	80
industrial dryer			3		1	0	4	6	4	3	3	2	4	7	3	2	3	4	7	2	7	3	6
other kiln, caldron			13		15	0	5	13	9	16	9	6	10	13	9	21	25	9	12	6	11	4	15
transmission			36		24	0	28	27	36	59	43	34	43	56	44	57	61	62	79	93	91	71	110
electric power facilities			9		17	0	14	10	11	13	7	15	15	13	14	13	10	10	15	21	14	13	10
other electrical equipment			49		40	0	38	39	46	41	34	29	39	25	50	44	38	40	54	51	45	73	69
human power cranes			24		19	0	24	20	16	13	11	14	10	9	9	12	12	6	8	26	143	237	403
human power hauling equipment			1,187		1,282	0	1,534	1,659	1,619	1,716	1,784	1,796	1,862	1,995	1,933	1,973	2,049	2,244	2,311	2,478	2,461	2,506	2,431
human power machine			37		20	0	24	32	30	30	22	28	29	24	37	28	21	23	29	24	33	30	34
hand tool			1,940		1,915	0	1,912	1,937	1,962	1,752	1,641	1,638	1,541	1,785	1,756	1,661	1,730	1,605	1,630	1,696	1,686	1,775	1,766
ladder			1,588		1,645	0	1,713	1,743	1,790	1,800	1,746	1,845	1,913	1,972	1,916	1,899	1,882	1,983	2,046	2,175	2,301	2,360	2,275

substances			239		270	0	300	239	225	197	217	178	245	232	213	240	231	253	247	222	254	207	215
metal material			708		634	0	632	687	620	598	494	518	493	556	485	531	474	540	541	511	518	463	494
lumber, bamboo			271		260	0	262	259	209	197	192	179	219	197	189	196	181	197	199	209	180	169	183
stone, sand, substance			130		101	0	106	100	115	104	74	73	96	87	100	81	83	74	94	75	84	96	85
other materials			863		924	0	881	1,012	1,003	894	892	838	836	932	913	893	865	774	726	727	785	731	683
load			2,713		2,645	0	2,697	2,901	3,064	2,903	2,555	2,511	2,488	2,566	2,458	2,602	2,619	2,718	2,726	2,813	2,957	3,216	3,249
machine/equipment as load			200		171	0	198	186	181	191	162	176	151	194	145	138	144	142	125	135	167	146	127
natural ground, rock			431		415	0	363	353	352	356	340	318	346	334	293	281	280	248	297	212	279	259	258
standing tree			144		142	0	126	137	146	116	147	128	135	146	144	130	137	135	148	158	139	174	154
water			90		96	0	109	117	116	101	112	84	673	86	118	115	78	89	79	139	100	129	97
abnormal environment			20		10	0	17	12	5	16	4	23	20	32	18	8	6	12	13	24	11	10	7
high/cold temperature environment			291		163	0	158	206	190	186	147	281	280	296	344	293	280	256	273	635	488	494	402
other environments			1,321		1,173	0	1,494	1,400	1,173	1,273	1,285	1,389	1,658	1,801	1,915	2,333	1,692	1,907	2,021	2,288	1,720	1,838	2,213
other causal agent			2,038		2,038	0	2,281	2,414	2,287	2,553	2,171	2,288	2,633	2,471	2,440	2,448	2,676	2,561	2,889	2,678	3,034	8,184	18,331
no causal agent			2,187		2,807	0	3,041	2,989	3,233	3,523	3,854	3,968	3,991	4,350	4,292	4,447	4,649	4,649	5,185	6,114	6,226	7,235	8,206
unclassifiable			348		329	0	296	320	342	388	290	262	261	293	272	266	221	171	206	234	166	133	137
total			43,243		45,049	0	49,147	50,688	50,076	51,099	48,172	49,320	51,033	51,850	51,420	52,385	52,308	54,280	56,002	60,053	60,208	66,959	80,454

Workers age of industrial accidents in tertiary industry 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	1,567	1,499	1,609	1,557	1,646	1,450	1,572	1,482	1,379	1,336	1,112	1,115	1,135	1,296	1,328	1,332	1,400	1,329	1,292	1,538	1,481	1,389	1,459

Ibaraki	829	788	807		812		908	1,019	1,002	977	894	939	1,025	1,025	979	1,055	1,081	1,133	1,082	1,273	1,197	1,312	1,546
Tochigi	619	614	647		634		725	736	704	780	653	678	669	708	720	762	771	779	816	861	870	960	1,104
Gunma	769	721	761		780		799	832	797	803	735	819	781	805	863	884	851	945	945	960	1,019	1,099	1,248
Saitama	1,404	1,459	1,721		1,835		2,094	2,192	2,198	2,191	2,150	2,191	2,150	2,348	2,402	2,470	2,534	2,573	2,578	2,879	2,834	3,389	4,069
Chiba	1,606	1,693	1,829		1,954		1,884	2,253	2,140	2,414	2,196	2,282	2,263	2,415	2,312	2,356	2,397	2,483	2,540	2,825	3,066	3,076	3,850
Tokyo	3,827	3,842	4,296		4,660		5,036	5,206	5,256	5,388	5,075	5,328	5,481	5,751	5,541	5,699	5,626	5,841	6,034	6,577	6,711	7,286	9,175
Kanagawa	2,593	2,672	2,728		2,830		3,228	3,312	3,172	3,268	3,068	3,226	3,325	3,364	3,324	3,386	3,370	3,470	3,409	3,693	3,790	4,397	5,172
Niigata	723	777	808		830		917	966	955	935	877	880	998	1,027	1,055	954	943	963	1,046	1,141	1,063	1,092	1,465
Toyama	348	341	362		346		424	405	342	383	407	366	461	455	417	464	420	418	508	502	439	517	544
Ishikawa	429	387	435		401		420	422	466	404	451	456	498	488	453	450	435	464	505	592	557	569	710
Fukui	283	283	293		260		292	292	292	310	272	304	352	351	289	343	305	350	351	465	380	406	452
Yamanashi	217	214	279		311		362	325	342	374	322	342	342	287	335	344	353	362	329	391	374	374	442
Nagano	577	616	740		739		741	793	807	812	805	781	835	855	912	951	912	894	933	982	1,002	994	1,157
Gifu	570	544	635		596		714	743	747	718	634	724	698	729	713	691	675	736	791	829	796	937	1,140
Shizuoka	1,241	1,227	1,319		1,411		1,428	1,628	1,601	1,593	1,517	1,484	1,529	1,516	1,523	1,524	1,566	1,669	1,703	1,798	1,840	1,826	2,124
Aichi	2,020	2,168	2,127		2,158		2,428	2,528	2,450	2,656	2,521	2,572	2,579	2,532	2,586	2,782	2,604	2,738	2,924	3,175	3,099	3,501	3,994
Mie	706	617	709		728		762	827	839	832	836	836	839	867	774	780	808	799	908	926	924	1,028	1,142
Shiga	331	344	356		357		483	537	504	543	505	477	510	574	500	515	511	524	539	542	577	678	697
Kyoto	874	1,054	1,015		1,074		1,180	1,200	1,150	1,104	1,109	1,082	1,206	1,211	1,199	1,057	1,188	1,104	1,158	1,215	1,239	1,338	1,599
Osaka	3,306	3,469	3,669		3,900		4,114	4,074	3,948	4,098	3,867	3,783	3,803	3,851	3,783	3,913	3,930	4,150	4,265	4,552	4,566	4,825	6,882
Hyogo	1,695	1,650	1,724		1,943		2,084	2,027	2,058	2,073	1,898	2,006	2,050	2,008	2,043	2,107	2,173	2,213	2,307	2,415	2,436	2,921	3,422
Nara	379	359	381		427		541	498	527	592	582	573	575	578	554	567	575	624	602	694	644	722	890
Wakayama	344	331	360		388		468	430	462	470	434	444	456	403	431	427	414	406	458	491	501	500	591
Tottori	178	182	200		188		220	215	215	222	177	201	252	188	207	202	201	209	228	230	208	278	258

Shimane	276	271	283		318		278	332	292	315	307	286	316	301	328	291	294	316	340	359	337	330	417
Okayama	508	525	569		665		764	699	665	742	677	720	694	747	707	689	750	708	855	893	850	993	1,138
Hiroshima	1,045	1,037	1,126		1,024		1,240	1,188	1,191	1,176	1,171	1,153	1,201	1,204	1,201	1,215	1,270	1,273	1,346	1,334	1,367	1,527	1,781
Yamaguchi	519	473	526		538		637	608	556	571	557	556	590	596	534	506	582	558	613	621	609	679	873
Tokushima	288	249	316		291		305	287	277	318	281	299	251	328	311	302	297	314	350	345	343	419	497
Kagawa	397	413	394		407		459	454	449	412	447	443	397	457	419	422	460	441	466	493	532	609	596
Ehime	420	477	447		503		544	519	522	520	486	493	505	564	533	519	509	554	568	633	598	632	799
Kochi	451	451	442		442		420	412	405	338	407	413	449	432	375	434	374	390	384	411	407	461	468
Fukuoka	1,956	1,940	2,114		2,079		2,337	2,349	2,267	2,243	2,194	2,212	2,269	2,421	2,344	2,455	2,604	2,631	2,717	2,853	2,822	3,273	3,961
Saga	335	320	330		351		372	383	397	392	381	410	344	386	412	420	424	457	434	569	505	529	670
Nagasaki	472	398	475		573		592	629	614	682	636	582	600	623	634	637	638	705	710	715	765	873	997
Kumamoto	708	713	767		734		711	790	799	777	741	795	825	760	776	774	794	897	871	911	921	1,049	1,163
Oita	480	462	485		480		531	511	556	514	484	480	472	459	479	549	541	532	574	538	600	620	716
Miyazaki	468	490	442		517		526	536	542	530	507	475	509	466	497	514	510	525	533	544	654	703	801
Kagoshima	525	528	554		662		631	648	663	712	590	686	627	677	665	701	727	867	838	844	879	980	1,122
Okinawa	324	318	390		378		385	452	480	535	454	483	513	569	540	589	562	652	670	698	736	855	1,059
total	40,209	40,506	43,243		45,049		49,147	50,688	50,076	51,099	48,172	49,320	51,033	51,850	51,420	52,385	52,308	54,280	56,002	60,053	60,208	66,959	80,454

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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Fatal accidents in tertiary industry in Japan in 1999-2021

tertiary industry industry Code No.08-17

Type of fatal accidents in tertiary industry 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
fall from height	57	58	59	67	79	61	53	72	58	53	63	74	45	50	53	53	51	46	56	59	48	36	48
falling to same level	10	7	6	11	13	14	11	12	8	9	7	8	10	9	10	3	12	7	8	10	5	11	9
crash	4	1	1	1	6	0	1	1	1	3	4	1	1	1	0	0	4	1	1	1	0	5	0
struck by flying or falling object	4	6	10	13	9	7	12	4	2	3	2	10	6	4	3	6	6	5	1	6	5	9	8
collapse	10	6	5	9	6	1	7	7	4	6	10	8	9	5	7	6	5	6	4	4	2	1	3
crashed by	20	18	14	18	12	13	14	23	13	17	17	10	10	11	18	12	9	11	13	9	13	11	7
caught in/between	32	41	41	36	43	42	47	35	37	37	29	41	25	30	31	24	21	25	21	19	19	28	29
cut	0	0	1	0	1	0	0	0	3	1	2	1	1	3	0	0	0	0	0	0	1	0	0
injury to the sole of the foot	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drown	15	17	4	4	6	10	7	9	5	6	14	8	361	6	9	8	7	11	18	14	11	7	4
contact to high/low-temperature	1	1	2	3	1	1	5	1	6	3	2	12	9	4	8	4	12	4	6	9	9	9	4
contact to harmful substance	6	5	8	13	5	2	3	6	3	2	3	4	4	5	4	6	3	1	2	4	8	7	2
electric shock	2	7	5	1	1	1	0	2	2	1	1	1	1	3	1	3	2	0	1	5	0	1	2
explosion	3	0	2	0	2	1	0	0	4	0	0	1	2	4	0	1	1	2	1	1	0	0	1
burst	1	1	2	0	0	0	2	0	0	1	0	1	0	0	1	3	0	2	0	1	0	0	0
fire	4	7	24	0	4	4	3	1	0	1	8	0	6	1	2	2	2	1	1	0	37	1	7
traffic accident (public road)	230	217	221	196	188	159	188	162	131	135	107	116	102	126	111	101	85	103	79	79	66	79	55
traffic accident (others)	7	7	3	4	4	4	6	2	2	1	1	1	6	3	0	0	0	0	3	1	1	1	0

reaction to motion/improper motion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
others	7	8	4	11	16	23	18	13	24	12	17	21	251	30	20	25	26	23	28	21	14	19	61
unclassifiable	0	2	1	3	2	3	3	0	2	4	3	2	3	2	4	2	2	0	1	0	1	0	1
total	413	409	413	391	398	346	380	350	305	295	290	320	852	297	282	259	248	248	244	243	240	225	241

Causal agents (middle) of fatal accidents in tertiary industry 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	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
power transmission mechanism	0	2	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	2	0	0	1	0	0
woodworking machine	0	0	0	0	0	0	0	0	3	0	1	2	0	0	0	0	0	0	0	0	0	0	0
construction machine	9	11	17	20	16	10	14	8	13	8	6	17	11	9	8	8	11	6	5	7	3	12	7
metal manufacturing machine	0	0	0	1	1	0	1	0	2	0	1	1	0	0	1	0	0	0	0	1	0	1	0
general machine	8	7	9	13	9	12	12	4	7	10	15	6	5	7	9	4	5	4	4	3	8	7	8
mobile silviculture machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
crane	13	11	14	11	10	5	5	8	7	10	7	7	7	8	8	3	7	9	7	7	4	2	5
conveying machine	96	104	92	82	86	76	100	78	71	69	55	56	53	57	53	56	41	48	51	40	38	50	39
vehicle	180	164	159	150	151	129	144	133	98	101	92	84	85	103	89	77	71	81	55	62	57	64	40
pressure vessel	0	1	1	1	0	1	2	0	0	1	0	0	1	0	0	0	0	1	0	1	0	0	0
chemical facilities	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
kiln, caldron	0	0	0	1	0	1	0	0	1	2	0	0	0	0	1	0	0	2	0	0	0	2	2
electric equipment	2	6	3	0	2	2	0	3	1	2	2	0	0	3	1	3	1	0	0	4	0	1	2
human power machine, tools	3	3	1	5	3	4	5	5	1	3	1	6	0	1	3	1	2	1	4	2	2	1	0

leveling, transporting or loading machine	1	8	7	5	7	4	6	2	5	3	1	4	2	4	1	4	2	1	4	4	2	3	3
excavating machine	4	0	3	5	4	4	4	3	4	4	0	6	5	3	2	1	2	0	1	1	0	2	2
foundation work machine	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hardening machine	1	0	0	1	1	0	1	1	0	1	0	2	0	1	1	1	0	0	0	0	0	0	0
demolition machine	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	4	3	0	2	0	5	0
vehicle for high lift work	0	1	2	3	1	0	0	1	2	0	1	1	2	1	1	0	1	1	0	0	1	0	1
other construction machines	3	1	3	6	3	2	3	1	2	0	4	4	2	0	3	0	2	1	0	0	0	2	1
lathe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drill press, milling machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
grinding machine, buffing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power press	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
forging pressure hammer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
shearing machine	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
other metal manufacturing machines	0	0	0	1	1	0	1	0	2	0	0	0	0	0	1	0	0	0	0	1	0	1	0
centrifugal machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mixer, grinder	2	0	1	6	2	2	5	1	2	4	3	1	0	1	5	1	0	1	0	0	1	3	1
roll machine (except printingroll machine)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
injection molding machine	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
food manufacturing machine	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
printing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial robot	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other general power machines	5	6	8	7	6	10	6	2	5	6	12	4	5	6	4	3	5	3	4	3	7	3	7
felling machine																	0	0	0	0	1	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	1	2	3	1	0	1	1	1	2	0	0	1	0	0	1	0	0	2	0	1	1	0	2
mobile crane	7	4	4	4	4	2	2	3	1	5	4	3	2	4	6	1	2	1	3	3	2	2	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	4	3	7	3	6	2	2	2	4	4	3	3	4	4	0	2	3	6	4	3	1	0	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	0	0
gondola	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	1	2	0	3	0	0	0	2	0	1	0	0	1	0	1	0	2	0	0	0	0	0	0
truck	82	86	75	64	69	55	74	62	58	53	43	45	40	40	47	50	29	33	42	28	27	39	28
forklift	8	11	6	13	10	11	17	11	9	9	3	5	8	11	5	4	6	8	6	7	6	6	7
railway equipment	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
conveyor	1	2	3	0	2	5	2	0	4	2	5	2	2	4	1	2	3	1	2	1	2	4	1
loader	1	1	0	0	2	0	1	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0
straddle carrier	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rough terrain hauler	1	1	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0
other powered conveying machines	3	3	8	4	3	4	5	4	0	5	4	2	2	2	0	0	3	4	1	3	2	1	3
cars, bus, motorcycle	168	153	152	142	144	123	135	124	95	97	85	82	79	98	85	76	68	80	51	61	54	62	40
railway vehicle	2	5	3	0	2	1	7	2	1	1	2	1	3	2	0	0	0	0	2	1	2	0	0
other vehicles	10	6	4	8	5	5	2	7	2	3	5	1	3	3	4	1	3	1	2	0	1	2	0
boiler	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
pressure vessel	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

other pressure vessels	0	1	1	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0
chemical facilities	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
gas welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
arc welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
other welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
kiln, caldron	0	0	0	1	0	0	0	1	2	0	0	0	0	1	0	0	2	0	0	0	2	1	1
industrial dryer	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
other kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission	0	4	2	0	1	1	0	1	1	0	2	0	0	1	0	0	0	0	0	0	0	0	0
electric power facilities	2	1	1	0	1	1	0	1	0	1	0	0	0	1	1	3	1	0	0	4	0	1	2
other electrical equipment	0	1	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0
human power cranes	0	0	0	0	2	0	0	1	0	0	0	0	0	0	1	0	1	1	0	0	1	0	0
human power hauling equipment	2	2	1	3	1	3	4	4	0	2	1	6	0	1	2	1	1	0	4	1	1	1	0
human power machine	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hand tool	1	0	0	2	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0
ladder	6	10	7	8	18	11	9	9	10	6	8	16	10	9	15	8	11	4	10	12	10	6	5
slinging tool	1	1	3	1	2	0	0	1	0	2	0	0	1	0	0	0	0	1	1	0	0	0	2
other tools	2	2	6	1	2	2	3	3	1	2	2	6	1	0	1	7	2	3	2	0	3	1	2
other equipment, facilities	3	4	5	8	4	5	4	5	2	2	7	3	5	4	3	6	3	6	4	2	1	2	2
scaffolding	0	0	0	1	0	0	0	2	0	1	1	1	1	1	0	1	0	0	0	0	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	7	4	3	5	6	2	8	7	7	8	9	14	4	6	7	5	3	8	9	12	7	4	7
opening	4	3	1	3	2	5	3	2	2	4	5	3	2	3	2	1	2	0	4	5	2	2	2
roof, beam, haze, crossbeam, principal rafter	6	4	8	7	4	5	5	4	3	3	2	3	4	4	5	3	4	2	6	4	6	1	8

working platform, boot board	2	4	4	0	4	0	2	5	1	4	3	4	1	1	1	4	2	1	2	1	2	4	4
passage	1	3	1	3	1	4	1	8	2	2	2	5	4	3	3	2	2	6	4	2	1	5	5
building, establishment	21	17	29	17	26	12	12	16	18	17	14	13	15	10	10	9	9	14	12	14	9	2	9
other temporary buildings, establishments	3	4	3	4	4	4	3	4	4	3	2	6	1	0	3	5	1	1	5	2	1	1	2
explosive substance	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
inflammable substance	5	6	6	0	1	0	1	0	1	1	2	0	1	2	1	0	2	1	0	1	37	1	7
inflammable gas	1	1	1	0	0	1	0	0	3	0	0	0	3	2	0	1	1	0	0	1	0	0	0
harmful substance	6	4	4	8	4	2	1	3	2	0	1	2	2	1	3	5	2	0	1	1	1	3	1
radiation	0	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	1	0	1	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	2	0	1
metal material	3	1	2	3	1	1	3	1	1	0	3	1	1	0	2	2	2	0	0	0	0	0	3
lumber, bamboo	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	2	1	1	0	0	0	0
stone, sand, substance	1	0	1	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other materials	0	0	1	1	0	0	0	1	0	0	2	2	0	0	2	2	0	0	0	0	0	0	0
load	3	3	5	6	3	6	2	4	3	3	5	5	2	6	2	4	2	2	3	3	2	2	2
machine/equipment as load	0	1	0	0	1	2	0	1	1	0	0	0	2	0	0	2	0	0	0	1	0	0	0
natural ground, rock	3	3	6	2	5	2	2	7	2	0	5	3	3	4	2	1	5	2	2	2	2	4	1
standing tree	2	0	4	0	3	4	1	3	0	3	2	3	0	5	3	2	2	2	1	3	4	3	2
water	6	11	2	2	5	6	3	3	5	3	9	8	589	5	8	4	4	9	14	11	4	6	3
abnormal environment	0	0	2	3	0	0	0	2	0	0	0	2	1	2	0	0	0	1	1	2	4	2	0
high/cold temperature environment	0	1	2	2	1	0	5	1	6	3	2	11	7	3	8	1	11	3	4	9	9	8	4
other environments	2	4	0	4	2	4	4	4	2	5	3	7	7	4	4	1	4	5	2	7	3	3	2
other causal agent	8	5	5	8	15	15	8	3	4	1	1	1	1	0	1	7	0	0	0	2	3	12	55
no causal agent	5	1	2	5	1	9	8	8	19	10	16	19	19	29	21	22	29	21	27	18	11	10	7

unclassifiable	0	3	2	2	2	4	5	3	2	4	3	2	2	3	1	1	4	0	2	1	2	1	1
total	413	409	413	391	398	346	380	350	305	295	290	320	852	297	282	259	248	248	244	243	240	225	241

Workers age of fatal accidents in tertiary industry 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	15	7	16	5	8	6	7	8	2	4	2	1	11	4	4	3	1	0	2	7	0	0	0
20-29	86	71	99	53	58	47	39	49	36	32	35	36	89	23	27	30	25	30	22	11	29	15	13
30-39	51	74	57	70	71	63	50	49	48	42	29	46	149	47	29	31	29	29	23	25	25	28	17
40-49	65	62	57	66	69	46	65	53	47	41	47	51	189	64	52	38	46	41	40	45	53	28	33
50-59	88	90	93	101	95	94	118	85	88	75	81	78	233	72	55	53	58	64	55	52	47	42	50
60 years old or more	108	105	91	96	97	90	101	106	84	101	96	108	181	87	115	104	89	84	102	103	86	112	128
total	413	409	413	391	398	346	380	350	305	295	290	320	852	297	282	259	248	248	244	243	240	225	241

Workers' number of workplace of fatal accidents in tertiary industry 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	115	119	127	104	109	95	119	99	94	79	78	82	279	87	75	79	71	70	72	54	47	63	47
10-29	127	140	149	138	128	118	115	110	83	92	88	105	298	90	78	81	80	83	76	87	68	74	81
30-49	57	59	57	56	63	48	61	55	51	56	55	50	106	45	61	39	31	49	30	39	42	33	38
50-99	60	40	44	42	42	30	30	38	32	32	42	34	92	26	30	25	26	18	26	24	54	23	28
100-299	39	44	28	33	35	40	40	34	27	26	22	33	52	34	24	25	23	15	23	28	20	23	33
300 workers or more	15	7	8	18	21	15	15	14	18	10	5	16	25	15	14	10	17	13	17	11	9	9	14
total	413	409	413	391	398	346	380	350	305	295	290	320	852	297	282	259	248	248	244	243	240	225	241

Akita	5	6	2	4	5	2	4	2	0	2	2	4	5	2	1	2	1	4	0	2	2	0	0
Yamagata	3	5	2	2	2	0	5	5	4	4	3	0	4	3	2	1	2	1	3	2	2	1	1
Fukushima	8	10	10	6	6	7	9	8	7	7	2	4	23	8	3	5	5	7	6	2	6	5	5
Ibaraki	13	6	15	12	10	6	6	13	8	2	7	13	6	10	11	10	8	8	1	5	3	9	7
Tochigi	7	17	14	7	12	8	11	11	4	9	3	9	3	7	9	4	5	6	4	7	7	4	3
Gunma	7	9	1	10	3	6	8	4	5	6	11	2	1	5	5	6	5	5	5	5	4	3	2
Saitama	13	14	16	17	19	21	18	14	14	15	8	15	17	9	17	5	9	8	9	9	10	4	9
Chiba	24	20	17	8	12	11	14	18	13	21	13	9	7	4	10	10	9	9	14	4	12	8	5
Tokyo	39	34	46	35	33	39	30	38	40	25	24	32	32	34	20	19	28	19	27	31	18	15	34
Kanagawa	11	20	19	24	27	13	18	14	8	14	13	16	11	13	19	8	13	9	13	13	8	10	18
Niigata	9	9	11	5	11	8	6	5	8	3	7	10	6	3	6	3	4	8	2	2	5	5	7
Toyama	4	4	5	1	2	3	3	2	2	5	5	2	3	2	1	1	5	5	2	5	1	4	3
Ishikawa	6	3	5	2	7	2	2	2	7	5	8	1	1	7	4	5	4	4	2	6	4	5	2
Fukui	5	3	4	2	3	2	2	1	1	2	3	1	2	2	4	4	3	0	1	0	3	0	1
Yamanashi	0	1	2	2	5	2	4	5	1	1	3	3	4	1	3	3	4	3	0	2	1	1	0
Nagano	12	14	5	8	5	9	10	4	5	3	7	6	7	3	4	1	7	5	7	6	6	5	2
Gifu	6	12	8	7	8	9	3	5	6	5	7	5	5	6	3	5	3	2	4	5	4	4	4
Shizuoka	13	13	9	13	12	14	16	12	13	9	4	7	6	11	2	11	5	5	8	9	4	8	2
Aichi	22	16	18	24	21	12	21	21	19	21	17	19	13	9	9	23	11	15	8	9	13	15	5
Mie	4	6	10	10	10	9	7	4	7	4	6	8	7	8	2	4	2	3	6	3	3	6	4
Shiga	7	8	6	4	3	7	3	2	6	5	6	5	3	2	6	3	2	6	1	5	2	6	1
Kyoto	4	11	5	9	11	6	5	2	8	3	6	4	8	4	6	7	3	2	4	4	39	3	9
Osaka	21	24	18	32	29	19	32	16	18	15	20	19	16	17	22	17	12	14	15	27	14	17	28
Hyogo	18	18	14	12	9	13	15	17	8	17	9	8	7	10	13	11	17	19	5	10	6	11	17

Nara	4	3	6	3	5	1	2	5	5	7	5	4	3	2	1	3	1	3	0	2	0	4	1
Wakayama	2	4	8	2	4	3	3	2	2	4	4	2	1	3	3	3	2	2	1	2	2	4	1
Tottori	4	8	2	3	1	0	2	4	1	0	0	6	4	2	2	0	0	0	0	0	1	1	1
Shimane	3	1	2	1	2	3	0	1	2	3	0	2	2	2	2	2	4	3	1	0	1	1	3
Okayama	7	7	8	8	5	8	9	3	6	5	3	3	2	8	10	4	2	3	4	3	5	4	1
Hiroshima	15	11	7	6	9	11	14	8	7	9	6	7	4	12	7	7	12	3	8	4	2	5	2
Yamaguchi	6	5	4	2	7	7	7	9	5	3	8	4	3	4	5	6	1	6	2	4	2	2	2
Tokushima	2	2	1	5	4	0	3	8	4	2	0	1	2	4	3	1	1	2	1	3	0	1	3
Kagawa	3	3	6	3	1	6	5	1	2	2	3	8	0	2	2	2	4	1	4	3	2	5	1
Ehime	6	9	6	5	4	4	8	7	5	5	3	3	4	2	4	2	6	7	1	2	1	2	5
Kochi	1	3	3	2	2	4	2	3	2	2	2	3	1	2	1	1	0	1	2	1	0	3	0
Fukuoka	20	12	17	19	17	12	13	11	6	5	10	11	9	14	12	11	5	10	10	9	8	9	8
Saga	7	1	1	8	2	1	2	1	2	1	2	3	0	1	1	2	3	0	1	1	1	2	1
Nagasaki	1	1	5	3	9	1	2	4	2	1	3	4	4	2	6	2	1	1	5	0	1	3	1
Kumamoto	5	5	7	6	6	5	7	8	3	4	5	4	5	7	2	2	2	2	4	2	3	1	4
Oita	9	4	1	2	3	9	6	5	2	4	1	4	5	3	4	0	3	0	4	2	6	3	1
Miyazaki	4	5	1	2	5	3	1	4	5	0	3	2	2	3	3	4	3	2	3	4	1	1	2
Kagoshima	4	8	4	4	5	5	4	2	3	5	4	3	3	2	2	4	2	6	4	4	4	4	6
Okinawa	3	1	4	1	4	4	2	2	0	0	5	6	2	5	2	1	3	2	6	0	1	2	3
total	413	409	413	391	398	346	380	350	305	295	290	320	852	297	282	259	248	248	244	243	240	225	241

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

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