

(others)	158	138	110	139	114	138	175	173	213	127	80	94	101	96	99	97	103	88	98	98	110	97	81	94	2,821
reaction to motion/improper motion	11,699	11,440	12,089	11,621	12,180	12,093	12,824	13,576	14,427	14,615	13,127	13,694	14,108	14,191	13,914	14,191	14,420	15,081	16,177	16,958	17,709	19,121	20,777	20,879	350,911
others	1,068	1,224	1,083	1,061	1,158	1,230	1,302	1,385	1,457	1,417	1,348	1,249	1,791	1,269	1,229	1,231	1,394	1,256	1,291	1,445	1,501	7,620	21,028	1,859	57,896
unclassifiable	403	369	413	438	407	393	339	372	360	348	270	230	227	315	321	310	269	259	275	267	266	177	186	249	7,463
total	141,055	139,974	140,149	132,339	132,936	132,248	133,050	134,298	131,478	129,026	114,152	116,733	119,622	119,576	118,157	119,535	116,311	117,910	120,460	127,329	125,611	131,156	149,918	132,355	3,075,378

Causal agents (large) of fatal and non-fatal accidents in all industries in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine	25,149	24,466	22,905	21,440	20,971	20,132	19,027	18,188	17,723	16,950	14,347	14,418	14,462	14,039	13,474	13,106	12,649	12,191	12,014	11,929	11,908	11,268	11,472	11,140	385,368
crane, conveying machine	27,703	28,227	27,961	26,939	27,092	26,804	28,513	28,370	27,643	26,454	23,289	23,632	23,297	23,472	23,573	23,407	22,644	22,459	22,792	23,250	22,711	21,673	22,343	21,810	596,058
other equipment	21,772	21,618	22,293	21,363	21,448	21,927	22,012	22,383	22,655	22,695	19,862	20,401	20,501	21,157	21,256	21,392	21,041	21,782	22,049	23,061	23,861	23,738	24,884	25,208	530,359
temporary buildings, establishments	29,140	29,142	30,124	28,388	29,723	29,998	30,100	31,227	29,973	30,333	27,500	28,276	29,357	29,633	28,999	30,285	29,885	31,608	32,105	35,123	34,068	34,443	36,307	36,716	742,453
substance, material	14,831	14,351	13,664	12,769	11,840	11,771	11,263	11,414	10,945	9,687	8,076	8,080	8,155	8,316	8,044	8,141	7,473	7,319	7,390	7,260	7,204	6,647	6,665	7,065	228,370
load	8,008	8,170	8,653	7,697	7,790	7,435	7,543	7,940	8,286	7,829	6,692	6,599	6,537	6,669	6,460	6,408	6,456	6,554	6,530	6,910	7,042	7,272	7,392	7,770	174,642
environment	6,264	6,088	6,737	5,681	5,774	5,877	5,855	5,682	5,216	5,535	5,181	5,939	7,487	6,346	6,498	6,792	5,704	5,942	6,169	7,445	5,950	6,388	6,432	7,418	148,400
others	8,188	7,912	7,812	8,062	8,298	8,304	8,737	9,094	9,037	9,543	9,205	9,388	9,826	9,944	9,853	10,004	10,459	10,055	11,411	12,351	12,867	19,727	34,423	15,228	269,728
total	141,055	139,974	140,149	132,339	132,936	132,248	133,050	134,298	131,478	129,026	114,152	116,733	119,622	119,576	118,157	119,535	116,311	117,910	120,460	127,329	125,611	131,156	149,918	132,355	3,075,378

Causal agents (middle) of fatal and non-fatal accidents in all industries in 1999-2022

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	2022	total
engine	60	74	61	42	44	52	43	36	47	44	35	32	27	51	31	24	33	32	38	38	31	19	40	23	957
power transmission mechanism	655	588	552	532	473	460	511	456	440	445	379	401	377	374	367	338	392	319	363	351	301	293	313	324	10,004

woodworking machine	5,803	5,644	5,090	4,652	4,604	4,152	3,835	3,482	3,515	3,255	2,837	2,768	2,725	2,515	2,393	2,355	2,059	1,989	1,835	1,828	1,824	1,770	1,775	1,553	74,258
construction machine	2,829	2,569	2,479	2,311	2,120	2,126	2,120	1,971	1,788	1,785	1,595	1,572	1,590	1,649	1,660	1,642	1,505	1,483	1,426	1,426	1,462	1,457	1,513	1,501	43,579
metal manufacturing machine	5,926	5,666	5,115	4,675	4,619	4,545	4,292	4,260	4,142	3,790	2,713	2,897	3,080	3,016	2,759	2,819	2,641	2,532	2,503	2,527	2,446	2,242	2,346	2,263	83,814
general machine	9,876	9,925	9,608	9,228	9,111	8,797	8,226	7,983	7,791	7,631	6,788	6,748	6,663	6,434	6,264	5,928	5,928	5,740	5,781	5,682	5,757	5,381	5,402	5,360	172,032
mobile silviculture machine																	91	96	68	77	87	106	83	116	724
crane	3,033	3,108	2,996	2,820	2,760	2,625	2,664	2,545	2,419	2,405	1,898	1,861	1,839	1,822	1,828	1,855	1,708	1,672	1,647	1,782	1,802	1,614	1,679	1,624	52,006
conveying machine	16,292	16,779	16,467	15,654	15,780	15,278	15,025	14,945	14,537	13,860	11,828	12,217	12,312	12,357	12,580	12,431	12,066	11,952	12,379	12,519	12,422	12,288	12,510	12,314	326,792
vehicle	8,378	8,340	8,498	8,465	8,552	8,901	10,824	10,880	10,687	10,189	9,563	9,554	9,146	9,293	9,165	9,121	8,870	8,835	8,766	8,949	8,487	7,771	8,154	7,872	217,260
pressure vessel	188	185	210	167	176	149	150	129	147	138	130	101	104	134	104	103	83	109	101	93	84	74	90	77	3,026
chemical facilities	47	43	27	47	44	59	57	45	40	40	26	25	33	33	17	38	29	32	24	43	30	21	47	31	878
welding equipment	355	344	343	322	282	299	305	261	301	287	235	184	183	197	214	218	193	207	187	214	196	168	175	190	5,860
kiln, caldron	231	253	264	242	260	246	223	237	219	234	227	231	188	193	219	203	196	165	221	208	264	214	221	235	5,394
electric equipment	337	324	328	292	268	315	287	247	293	313	238	246	250	261	252	272	263	276	293	335	301	299	357	337	6,984
human power machine, tools	7,396	7,382	7,702	7,634	7,460	7,506	7,466	7,572	7,718	7,574	6,747	6,969	6,911	7,366	7,238	7,223	7,123	7,368	7,432	7,884	8,061	8,316	8,576	8,884	181,508
tools	10,618	10,444	10,704	10,094	10,525	10,553	10,601	10,931	10,851	10,959	9,432	9,522	9,901	9,872	10,069	10,069	9,964	10,287	10,688	10,936	11,557	11,170	11,610	11,530	252,887
other equipments, facilities	2,600	2,643	2,715	2,565	2,433	2,800	2,923	2,961	3,086	3,150	2,827	3,123	2,931	3,101	3,143	3,266	3,190	3,338	3,103	3,348	3,368	3,476	3,808	3,924	73,822
temporary buildings, establishments	29,140	29,142	30,124	28,388	29,723	29,998	30,100	31,227	29,973	30,333	27,500	28,276	29,357	29,633	28,999	30,285	29,885	31,608	32,105	35,123	34,068	34,443	36,307	36,716	742,453
hazards, harmful substances	1,149	1,176	1,246	1,237	1,175	1,148	1,163	1,172	1,107	985	831	850	967	921	906	926	872	918	903	860	931	812	795	804	23,854
materials	13,682	13,175	12,418	11,532	10,665	10,623	10,100	10,242	9,838	8,702	7,245	7,230	7,188	7,395	7,138	7,215	6,601	6,401	6,487	6,400	6,273	5,835	5,870	6,261	204,516
load	8,008	8,170	8,653	7,697	7,790	7,435	7,543	7,940	8,286	7,829	6,692	6,599	6,537	6,669	6,460	6,408	6,456	6,554	6,530	6,910	7,042	7,272	7,392	7,770	174,642

excavating machine			1,108		913		942	823	752	752	663	645	671	696	681	690	573	567	586	593	653	672	650	684	14,314
foundation work machine			107		80		86	87	69	63	54	53	56	64	62	62	70	61	57	64	51	61	44	44	1,295
hardening machine			175		137		96	111	100	99	88	99	74	78	64	83	84	79	57	52	66	52	58	49	1,701
demolition machine			131		126		131	125	119	120	112	98	104	105	171	186	192	193	181	164	171	162	186	168	2,945
vehicle for high lift work			91		95		98	114	112	119	105	92	90	88	81	89	102	105	95	78	119	100	102	119	1,994
other construction machines			460		388		421	364	330	337	313	292	327	331	322	297	212	227	180	198	168	173	195	175	5,710
lathe			527		424		395	433	363	385	287	298	306	338	267	241	284	244	210	249	227	222	233	189	6,122
drill press, milling machine			680		572		558	536	510	494	319	327	323	298	300	299	314	286	232	250	229	220	218	231	7,196
grinding machine, buffing machine			849		797		755	726	816	749	599	633	689	620	561	603	565	569	549	562	560	521	554	518	12,795
power press			1,119		1,116		1,030	973	904	785	527	559	649	651	586	602	565	517	559	524	503	452	451	475	13,547
forging pressure hammer			30		17		25	21	19	26	16	18	12	12	12	11	12	12	14	10	15	11	9	20	322
shearing machine			194		213		176	156	189	160	144	141	120	141	102	132	105	125	95	101	95	91	93	83	2,656
other metal manufacturing machines			1,716		1,480		1,353	1,415	1,341	1,191	821	921	981	956	931	931	796	779	844	831	817	725	788	747	20,364
centrifugal machine			21		21		16	24	18	25	13	12	16	13	18	16	15	13	11	17	18	12	14	17	330
mixer, grinder			389		356		313	324	331	300	262	243	248	284	282	256	250	201	221	224	243	238	225	230	5,420
roll machine (except printingroll machine)			646		602		566	532	529	509	446	479	416	439	440	424	385	348	417	365	358	354	321	351	8,927
injection molding machine			194		204		174	146	162	108	119	121	90	104	97	73	73	69	75	95	76	71	84	66	2,201
food manufacturing machine			2,476		2,347		2,267	2,004	2,001	2,152	1,967	1,992	1,992	1,902	1,852	1,723	1,784	1,778	1,744	1,588	1,658	1,548	1,503	1,503	37,781
printing machine			521		470		424	410	390	377	326	304	295	290	263	249	211	224	216	191	176	180	206	179	5,902
industrial robot			26		47		36	36	51	34	29	26	30	31	30	29	26	24	26	26	22	24	29	21	603

other general power machines			5,335		5,064		4,430	4,507	4,309	4,126	3,626	3,571	3,576	3,371	3,282	3,158	3,184	3,083	3,071	3,176	3,206	2,954	3,020	2,993	73,042
felling machine																	48	56	39	37	45	65	40	70	400
mobile logging machine																	27	20	19	24	21	18	15	21	165
skyline yarding machine																	12	15	7	11	15	11	16	15	102
other mobile silviculture machine																	4	5	3	5	6	12	12	10	57
crane			1,357		1,269		1,252	1,216	1,185	1,175	840	844	871	875	789	840	742	772	785	828	850	725	780	762	18,757
mobile crane			969		912		870	766	736	768	648	619	588	566	660	630	615	597	564	603	589	570	566	551	13,387
derrick crane			5		3		2	4	4	4	1	5	3	2		2					1				36
elevator, lift			321		280		228	268	271	218	214	174	168	189	180	193	184	145	155	176	197	159	171	167	4,058
cargo lifting appliance			20		12		14	10	14	6	5	10	16	5	12	11	5	13	14	12	16	11	15	16	237
gondola			15		10		14	13	8	21	11	12	13	5	11	7	4	5	10	7	8	5	11	9	199
lumberyard equipment, logging cableway			63		45		50	42	35	44	34	39	24	34	21		19	21	11	12	9	11	16	12	542
simple skyline yarding equipment																	3	1		1		3	4	2	14
other powered crane			246		229		234	226	166	169	145	158	156	146	155	145	136	118	108	143	132	130	116	105	3,163
truck			11,480		10,876		10,304	10,228	9,923	9,445	8,253	8,548	8,547	8,677	8,995	8,817	8,664	8,502	8,797	8,870	8,760	8,890	9,011	8,788	184,375
forklift			2,621		2,613		2,607	2,570	2,534	2,404	1,954	1,916	2,054	1,982	1,904	1,898	1,890	1,977	1,997	2,113	2,145	1,989	2,028	2,092	43,288
railway equipment			33		28		29	36	29	37	24	15	24	26	28	25	26	13	16	19	31	18	17	10	484
conveyor			1,554		1,504		1,376	1,390	1,400	1,339	1,071	1,153	1,092	1,104	1,127	1,131	998	981	1,019	988	967	941	976	935	23,046
loader			66		66		52	61	43	50	38	36	48	48	37	50	48	47	47	40	57	47	54	59	994
straddle carrier					5		1	6	2	5	1	2	3	5	2	7	4	5	5	4	2	4	5	3	71
rough terrain hauler			48		41		33	31	19	37	43	20	23	17	22	25	28	18	34	25	30	23	24	20	561
other powered conveying machines			665		647		623	623	587	543	444	527	521	498	465	478	408	409	464	460	430	376	395	407	9,970

cars, bus, motorcycle			7,633		7,718		9,931	10,039	9,761	9,414	8,828	8,854	8,431	8,516	8,509	8,496	8,281	8,279	8,179	8,396	7,913	7,311	7,634	7,320	169,443
railway vehicle			72		64		92	83	65	73	75	64	71	64	91	65	50	67	74	65	81	65	79	66	1,426
other vehicles			793		770		801	758	861	702	660	636	644	713	565	560	539	489	513	488	493	395	441	486	12,307
boiler			28		19		32	27	36	17	23	23	14	18	19	22	7	13	14	16	17	10	10	12	377
pressure vessel			65		52		42	39	35	39	36	24	29	41	26	18	29	31	38	22	29	23	23	17	658
other pressure vessels			117		105		76	63	76	82	71	54	61	75	59	63	47	65	49	55	38	41	57	48	1,302
chemical facilities			27		44		57	45	40	40	26	25	33	33	17	38	29	32	24	43	30	21	47	31	682
gas welding equipment			96		83		97	57	84	70	85	64	66	57	53	53	54	50	56	82	65	40	35	53	1,300
arc welding equipment			107		87		102	97	120	102	96	65	69	64	84	79	69	87	63	73	64	69	66	58	1,621
other welding equipment			140		112		106	107	97	115	54	55	48	76	77	86	70	70	68	59	67	59	74	79	1,619
kiln, caldron			205		203		181	182	174	185	173	194	144	151	174	146	145	119	169	170	215	172	179	194	3,475
industrial dryer			29		20		30	24	21	25	29	21	26	23	25	27	16	16	29	16	28	25	22	25	477
other kiln, caldron			30		37		12	31	24	24	25	16	18	19	20	30	35	30	23	22	21	17	20	16	470
transmission			117		96		116	101	136	142	115	88	101	140	112	123	140	139	163	185	173	138	191	214	2,730
electric power facilities			73		64		65	50	72	66	51	72	50	56	49	60	47	45	42	59	38	45	52	47	1,103
other electrical equipment			138		108		106	96	85	105	72	86	99	65	91	89	76	92	88	91	90	116	114	76	1,883
human power cranes			113		115		100	94	97	95	57	66	82	60	65	72	56	62	64	84	406	573	907	1,384	4,552
human power hauling equipment			2,616		2,770		3,102	3,296	3,420	3,635	3,281	3,464	3,532	3,714	3,654	3,796	3,821	4,249	4,281	4,593	4,493	4,528	4,332	4,208	74,785
human power machine			189		124		126	130	124	114	85	106	96	100	113	110	101	85	100	85	94	94	99	88	2,163
hand tool			4,784		4,451		4,138	4,052	4,077	3,730	3,324	3,333	3,201	3,492	3,406	3,245	3,145	2,972	2,987	3,122	3,068	3,121	3,238	3,204	70,090
ladder			5,867		5,651		5,610	5,653	5,613	5,464	5,041	5,061	5,199	5,309	5,269	5,250	5,034	5,086	5,178	5,410	5,571	5,621	5,663	5,569	108,119
slinging tool			815		743		758	706	704	647	518	516	482	483	497	448	449	468	444	417	418	369	394	379	10,655

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	2022	total
9 workers or less	43,888	43,532	42,524	39,861	39,412	38,579	36,864	35,940	34,000	32,098	28,133	28,145	28,819	28,296	27,302	27,207	25,670	25,106	25,163	25,755	25,021	24,466	25,852	24,165	755,798
10-29	40,126	39,543	39,844	37,394	36,799	36,161	35,965	35,595	34,362	33,481	29,788	30,509	31,276	31,454	31,225	31,638	30,602	30,938	31,563	32,871	32,472	33,689	37,982	34,656	819,933
30-49	18,386	18,634	18,662	17,632	17,929	17,929	17,625	18,204	17,902	18,099	15,774	16,092	16,590	16,777	16,705	17,059	16,903	17,213	17,872	19,084	19,096	19,733	22,109	20,120	432,129
50-99	16,222	16,166	16,501	15,749	15,944	16,142	16,555	17,021	16,753	16,679	15,201	15,789	16,302	16,294	16,267	16,239	16,231	16,647	17,059	18,451	18,666	19,563	22,511	20,355	409,307
100-299	15,560	15,112	15,341	14,720	15,515	15,759	16,905	17,821	18,137	18,472	16,544	17,214	17,349	17,399	17,642	17,918	17,822	18,349	18,650	20,241	19,865	21,063	26,068	21,717	431,183
300 workers or more	6,873	6,987	7,277	6,983	7,337	7,678	9,136	9,717	10,324	10,197	8,712	8,984	9,286	9,356	9,016	9,474	9,083	9,657	10,153	10,927	10,491	12,642	15,396	11,342	227,028
total	141,055	139,974	140,149	132,339	132,936	132,248	133,050	134,298	131,478	129,026	114,152	116,733	119,622	119,576	118,157	119,535	116,311	117,910	120,460	127,329	125,611	131,156	149,918	132,355	3,075,378

Month of fatal and non-fatal accidents in all industries in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	11,145	10,646	12,084	10,592	11,125	10,990	10,879	11,619	10,378	11,033	10,107	9,737	10,557	10,434	10,575	10,070	10,033	10,614	10,547	12,180	10,439	10,276	16,043	12,550	264,653
February	11,876	12,014	11,507	10,364	10,696	10,669	10,951	11,225	10,530	11,969	9,401	9,792	9,421	10,960	9,429	11,301	9,230	9,799	9,882	10,457	10,191	10,221	12,556	10,700	255,141
March	12,162	12,447	12,577	11,179	11,485	11,701	11,747	11,474	11,604	11,102	9,887	10,227	11,300	10,252	9,832	10,059	10,047	9,867	10,292	10,542	10,367	10,418	12,401	11,013	263,982
April	11,383	11,017	11,323	10,870	10,744	10,614	10,606	10,378	10,578	10,604	9,337	9,313	8,964	9,310	9,466	9,390	9,388	9,571	9,351	9,724	10,012	10,363	12,804	10,576	245,686
May	11,349	11,181	11,535	11,074	10,907	10,257	10,433	10,878	11,039	10,672	8,937	9,075	9,070	9,632	9,437	9,551	9,205	9,444	9,439	10,036	10,056	9,452	12,617	10,386	245,662
June	12,165	11,843	11,979	10,836	11,199	11,521	11,487	11,184	11,368	10,817	9,627	10,077	10,199	9,880	9,535	9,755	9,966	9,878	10,024	10,551	10,466	11,398	11,558	11,544	258,857
July	12,644	12,309	12,427	12,275	11,860	12,023	11,785	11,692	11,715	11,761	10,326	10,463	10,317	10,476	10,674	10,672	10,892	10,290	10,565	11,848	11,945	11,666	12,572	11,605	274,802
August	11,802	11,994	11,440	11,060	11,065	10,805	11,323	11,575	11,680	10,362	9,406	10,086	10,331	10,251	9,892	9,662	9,621	9,979	10,233	10,626	10,976	11,350	14,788	10,685	260,992
September	12,313	11,927	11,345	10,871	11,265	11,346	10,966	11,236	10,728	10,514	9,157	9,672	10,140	9,581	9,554	9,836	9,694	9,854	9,823	10,643	10,603	11,169	11,769	11,130	255,136
October	11,948	12,099	12,254	11,776	11,691	11,435	11,055	11,597	11,246	10,923	9,838	9,832	9,857	9,909	10,540	10,112	9,845	9,846	10,627	11,047	10,716	11,204	11,152	10,975	261,524
November	11,329	11,411	11,052	11,098	10,395	10,635	10,728	11,053	10,496	9,751	9,076	9,273	9,663	9,395	9,706	9,339	9,380	9,577	9,735	10,066	10,083	10,850	10,621	10,352	245,064
December	10,939	11,086	10,626	10,344	10,504	10,252	11,090	10,387	10,116	9,518	9,053	9,186	9,803	9,496	9,517	9,788	9,010	9,191	9,942	9,609	9,757	12,789	11,037	10,839	243,879
total	141,055	139,974	140,149	132,339	132,936	132,248	133,050	134,298	131,478	129,026	114,152	116,733	119,622	119,576	118,157	119,535	116,311	117,910	120,460	127,329	125,611	131,156	149,918	132,355	3,075,378

Prefecture of fatal and non-fatal accidents in all industries in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	8,219	8,250	8,186	7,824	7,455	7,835	7,570	7,687	7,461	6,851	6,392	6,486	6,420	6,512	6,708	6,744	6,568	6,613	6,676	6,836	6,743	7,735	8,146	7,177	173,094

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
fall from height	492	453	461	411	413	415	339	353	361	311	289	311	284	271	266	263	248	232	258	256	216	191	217	234	7,545
falling to same level	46	41	35	34	37	34	30	28	32	24	28	33	29	33	34	21	34	24	22	28	22	28	26	27	730
crash	14	7	8	4	15	8	10	10	6	11	9	5	7	3	8	5	7	3	3	3	2	11	3	6	168
struck by flying or falling object	93	90	91	90	79	87	82	92	66	77	57	63	40	46	56	50	53	41	43	53	43	42	38	42	1,514
collapse	132	114	112	110	104	90	86	100	92	83	67	67	63	76	56	58	65	57	57	54	56	48	42	52	1,841
crashed by	145	137	108	104	74	102	111	125	94	96	74	73	62	72	76	97	67	78	83	58	77	54	62	59	2,088
caught in/between	259	263	229	245	229	229	193	189	191	192	150	171	148	157	132	151	128	132	140	113	104	126	135	115	4,121
cut	5	9	7	8	11	7	8	4	6	6	4	8	6	8	5	4	2			5	4	6	2	4	129
injury to the sole of the foot	2		1	3	2	2	1	2	3			2	1			2		2							23
drown	35	37	22	26	27	40	31	26	20	38	33	23	911	31	25	35	24	31	38	35	24	21	25	14	1,572
contact to high/low-temperature	33	23	37	26	20	18	23	20	28	24	10	53	22	23	35	15	34	16	22	36	27	26	22	31	624
contact to harmful substance	25	30	21	32	24	19	17	29	15	20	20	20	20	17	18	17	22	9	13	17	14	21	17	8	465
electric shock	33	34	30	16	14	23	28	19	14	21	14	13	12	15	5	15	11	11	9	13	3	6	13	8	380
explosion	14	7	7	5	21	15	7	3	13	9	9	5	6	13	12	12	2	3	6	7	4	4	3	6	193
burst	6	3	5	1		6	5	3		5	1	3	1	3	2	4	1	6	1	1		2	1		60
fire	11	20	40	4	22	6	6	22	14	9	18	5	9	7	9	9	13	3	5	6	45	6	8	10	307
traffic accident (public road)	608	590	552	492	482	444	466	385	337	287	238	278	240	251	233	232	189	218	202	175	157	164	129	129	7,478
traffic accident (others)	16	11	11	16	10	18	16	14	14	10	9	12	12	6	3	4	3	1	12	3	3	5	6	9	224
reaction to motion/improper motion															1			1							2
others	18	18	10	25	39	52	47	45	47	38	36	46	458	56	47	59	61	58	60	43	42	41	113	20	1,479
unclassifiable	5	2	3	6	5	5	8	3	4	7	9	4	7	5	7	4	8	2	4	3	2		5		108
total	1,992	1,889	1,790	1,658	1,628	1,620	1,514	1,472	1,357	1,268	1,075	1,195	2,338	1,093	1,030	1,057	972	928	978	909	845	802	867	774	31,051

Causal agents (large) of fatal accidents in all industries in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine	256	256	217	212	200	180	170	171	153	175	139	138	116	133	126	129	106	103	116	99	95	111	107	110	3,618
crane, conveying machine	909	876	815	757	738	717	728	627	565	494	424	474	425	434	378	433	340	378	380	314	306	308	275	285	12,380
other equipment	138	136	151	125	122	140	115	126	110	127	98	104	73	84	87	96	91	86	83	85	66	58	71	72	2,444
temporary buildings, establishments	360	320	327	293	294	284	226	254	251	232	189	213	196	201	177	172	161	163	184	179	140	121	147	157	5,241

shearing machine		1			2			1			1		1		1						1		9		
other metal manufacturing machines	6	10	2	8	6	7	4	16	7	5		8	2	7	7	4	3	1	3	4	2	4	5	3	124
centrifugal machine			6		1			1									1							9	
mixer, grinder	13	10	11	15	10	8	11	9	7	11	6	8	4	7	14	7	5	4	5	3	5	6	5	7	191
roll machine (except printingroll machine)	6	9	5	2	5	5	3	2	3	9	2	3	2	6	1	4	3	2	3			3	2	2	82
injection molding machine	2	2	2	3	1	1	2	1	1	2	3		3	2	2		1		1	2	1	1	1		34
food manufacturing machine	3	3		2	6	3	4	3		2	3	2			1	3		2	4		3	1	1	3	49
printing machine	2			1	1				1		1	1	2	1	2	1				1			1	1	16
industrial robot		1	1	2	6	1	1	4	4	1	2	2	1	2	2	3	3	3	1	1	2	2	2	1	48
other general power machines	40	45	36	42	30	39	31	28	24	30	33	25	26	18	15	21	26	17	30	22	19	21	27	22	667
felling machine																	1	3	5		5	3	2	3	22
mobile logging machine																	3	3	3	3		3		2	17
skyline yarding machine																	1							2	3
other mobile silviculture machine																									
crane	29	23	24	19	24	17	21	15	22	18	14	16	15	12	11	15	8	27	10	9	18	6	18	11	402
mobile crane	29	39	41	34	26	32	27	26	23	18	18	22	11	19	22	19	21	11	22	25	18	16	10	10	539
derrick crane										1			1												2
elevator, lift	9	13	17	11	17	6	8	13	14	11	9	8	13	11	1	6	9	14	7	4	3	3	6	12	225
cargo lifting appliance			1			1		2		1		2	1	2	2	1		2				2			17
gondola	2			1			2		1				1	1	2										10
lumberyard equipment, logging cableway	3	6	5	4	1	3	3	5	1		3		1	1		3		1	1			1		1	43
simple skyline yarding equipment																									
other powered crane	3	7	3	9	6	4	8	5	6	3		4	3	1	2	3	3	1	1	1	5		1	3	82
truck	410	413	360	319	322	311	323	257	260	209	169	216	171	174	161	187	141	135	165	117	121	125	122	112	5,300
forklift	55	45	37	47	41	46	42	48	34	30	29	29	33	34	24	27	24	28	30	26	20	31	21	34	815
railway equipment	5			3	1	4	5	2	1	2		1	1	1		2		2	1			1	1		33
conveyor	21	25	10	16	16	20	11	17	23	13	13	14	8	15	10	15	9	15	17	17	8	11	10	10	344
loader	2	3	1	2	2	6	1	1	1				4					3		2					28
straddle carrier								1		1		1						1		1	1				6
rough terrain hauler	11	3	4	7	4	8	3	1	2	1	7	2	1	2	2	3	1	3	3	1	5	2	1	4	81

working platform, boot board	25	22	18	16	21	15	9	18	18	16	17	13	14	9	10	14	11	7	7	11	9	7	13	13	333
passage	7	9	8	8	4	7	5	12	13	2	4	13	10	7	7	6	5	9	6	10	6	9	16	9	192
building, establishment	104	105	103	82	94	62	68	76	74	77	52	50	52	57	38	47	35	54	45	38	32	32	38	41	1,456
other temporary buildings, establishments	18	21	19	19	27	23	16	18	15	11	13	18	10	10	6	12	10	9	20	6	8	12	6	16	343
explosive substance	4	2		1	12	1	5	1		1	3	1		1					2	3				1	38
inflammable substance	9	18	10	3	14	6	2	15	12	3	5	2	4	5	8	2	4	2	2	3	37	2	8	1	177
inflammable gas	2	2	4	3	2	5	2		9	3		1	4	8	4	2	3	1		2	2	1	1	3	64
harmful substance	19	17	9	18	15	14	9	13	13	6	11	11	8	7	11	14	13	4	7	8	5	6	8	1	247
radiation	1																								1
other hazards, harmful substances	5	6	3	2	2	3		2	4	3	1		3	2	1	2	3	1	2	3	5	2	2	1	58
metal material	26	18	26	21	13	18	21	22	24	21	13	13	11	14	18	11	15	4	14	13	7	8	10	6	367
lumber, bamboo	5	11	9	11	2	7	7	9	7	5	3	6	2	4	2	1	5	2	3	3	2	3	2	1	112
stone, sand, substance	5	6	5	2	3	1	7	2	1				3	2		2	1	3	1	2		2	2	2	52
other materials	5	3	6	5	4	4	5	3	2	3	8	5	3	3	4	2	4	3	2			2	2	1	79
load	25	28	30	25	22	35	22	25	28	23	16	18	16	21	14	12	14	16	12	16	20	12	11	16	477
machine/equipment as load	5	6	4		5	8	8	6	8	3	4	4	5	4	3	3	6	1	3	3	3	4	3		99
natural ground, rock	77	59	64	56	57	49	32	39	40	32	37	26	28	25	37	25	24	24	19	24	25	22	21	17	859
standing tree	57	48	45	40	37	41	47	49	44	38	36	50	34	39	35	51	50	35	37	35	35	35	31	29	978
water	15	19	10	12	14	24	13	14	11	22	18	14	1,301	13	17	12	11	16	21	20	9	16	11	6	1,639
abnormal environment	2	9	8	7	5	3	5	8	2	9	4	5	4	7	5	1	5	4	4	7	5	9	7	4	129
high/cold temperature environment	21	17	27	23	17	14	24	17	18	17	9	49	21	19	32	12	30	12	15	30	25	24	20	32	525
other environments	12	16	2	11	15	14	14	30	4	10	10	14	21	7	16	9	10	9	7	13	6	9	13	11	283
other causal agent	19	8	10	14	27	33	21	10	9	5	9	5	7	1	6	12	3	1		4	6	23	89	4	326
no causal agent	7	2	3	10	3	11	19	22	37	29	28	37	44	52	43	49	62	57	59	37	39	21	21	13	705
unclassifiable	8	6	5	7	5	8	12	7	5	7	10	5	9	7	6	5	11	3	5	6	7	3	5	1	153
total	1,992	1,889	1,790	1,658	1,628	1,620	1,514	1,472	1,357	1,268	1,075	1,195	2,338	1,093	1,030	1,057	972	928	978	909	845	802	867	774	31,051

Workers age of fatal accidents in all industries in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less	35	30	38	21	25	25	27	21	12	15	14	19	24	15	19	21	11	7	13	11	4	10	2	9	428

20-29	309	270	284	232	208	181	174	177	147	122	119	127	203	88	97	111	88	95	89	78	82	65	67	72	3,485
30-39	240	271	267	244	233	276	224	235	217	191	146	187	373	176	137	141	122	128	100	99	95	93	72	61	4,328
40-49	371	333	293	281	273	243	259	223	202	216	187	196	474	207	192	202	177	181	213	176	174	130	142	121	5,466
50-59	545	513	501	484	500	488	464	452	400	336	283	301	660	275	218	230	247	224	235	202	184	186	216	175	8,319
60 years old or more	492	472	407	396	389	407	366	364	379	388	326	365	604	332	367	352	327	293	328	343	306	318	368	336	9,025
total	1,992	1,889	1,790	1,658	1,628	1,620	1,514	1,472	1,357	1,268	1,075	1,195	2,338	1,093	1,030	1,057	972	928	978	909	845	802	867	774	31,051

Workers' number of workplace of fatal accidents in all industries in 1999-2022

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	2022	total
9 workers or less	666	639	617	590	560	600	529	560	514	462	376	436	847	411	376	364	373	331	380	321	281	313	306	308	11,160
10-29	678	641	601	529	540	535	493	449	408	376	326	364	748	331	289	351	312	281	304	297	260	237	261	210	9,821
30-49	269	253	256	217	230	194	202	186	174	177	165	147	330	137	160	133	114	148	115	106	105	103	111	110	4,142
50-99	182	170	160	140	153	118	127	132	120	108	100	105	216	88	86	102	72	75	83	80	105	62	79	58	2,721
100-299	126	126	114	120	98	122	104	101	86	97	80	98	142	80	80	80	67	65	62	73	66	60	78	62	2,187
300 workers or more	71	60	42	62	47	51	59	44	55	48	28	45	55	46	39	27	34	28	34	32	28	27	32	26	1,020
total	1,992	1,889	1,790	1,658	1,628	1,620	1,514	1,472	1,357	1,268	1,075	1,195	2,338	1,093	1,030	1,057	972	928	978	909	845	802	867	774	31,051

Month of fatal accidents in all industries in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	161	155	140	130	128	120	113	106	108	107	107	122	77	99	94	97	89	77	97	80	60	66	70	78	2,481
February	171	157	134	122	154	127	126	132	112	100	112	85	82	105	66	111	83	83	102	82	81	65	74	82	2,548
March	191	182	171	156	156	154	152	129	130	103	92	99	1,414	99	75	113	83	83	82	67	64	76	63	63	3,997
April	148	128	153	130	119	126	123	119	97	102	63	76	82	77	67	68	74	85	69	52	64	71	59	56	2,208
May	134	108	143	103	123	95	94	90	107	112	65	83	82	76	68	77	83	68	72	54	63	50	82	42	2,074
June	163	158	130	137	112	126	141	108	112	97	84	82	92	88	87	76	62	59	57	72	58	59	74	66	2,300
July	163	194	166	165	157	131	118	141	118	124	92	134	79	98	108	90	84	77	88	105	115	70	94	73	2,784
August	180	179	162	125	143	147	138	139	124	109	93	121	84	102	100	99	97	73	96	73	61	68	88	68	2,669
September	185	151	150	109	113	158	114	135	126	93	82	86	87	92	76	85	98	83	70	95	78	71	66	62	2,465
October	147	154	167	157	147	165	116	114	116	105	93	92	75	86	92	84	96	82	77	99	72	66	69	63	2,534

Mie	33	38	44	32	32	36	32	25	27	24	18	31	16	22	16	20	16	18	19	17	14	18	20	9	577
Shiga	27	35	15	20	19	23	22	13	16	14	18	11	10	11	12	10	8	15	9	11	10	19	7	11	366
Kyoto	27	37	27	28	34	21	19	22	24	23	23	20	18	11	16	18	20	8	21	9	48	9	16	10	509
Osaka	86	103	96	95	96	88	102	101	97	71	72	63	58	58	68	53	47	51	60	72	53	48	64	49	1,751
Hyogo	84	89	83	64	67	67	56	72	58	49	45	61	37	43	36	43	51	44	30	36	31	34	40	32	1,252
Nara	26	16	19	8	17	16	13	14	21	15	12	14	9	11	9	15	8	14	7	10	6	9	9	3	301
Wakayama	24	23	25	14	15	17	14	16	16	13	11	9	10	10	7	10	12	14	9	6	8	9	9	10	311
Tottori	17	16	9	11	9	6	14	15	4	4	6	8	10	6	5	3	3	1	4	1	4	8	6	1	171
Shimane	18	15	14	9	19	4	8	11	10	9	13	10	12	7	12	7	5	8	4	4	6	4	6	5	220
Okayama	42	37	45	40	22	33	34	23	25	15	19	18	17	33	35	14	17	14	19	15	15	16	7	11	566
Hiroshima	72	53	41	31	33	72	47	39	35	41	19	31	30	31	28	24	24	18	31	28	23	14	11	27	803
Yamaguchi	34	31	20	24	21	29	23	26	22	9	22	11	15	13	14	19	13	22	12	14	11	11	12	11	439
Tokushima	18	20	14	18	14	12	15	12	11	7	8	11	8	10	9	11	3	10	8	12	7	5	8	9	260
Kagawa	24	10	18	25	14	17	20	11	15	12	8	12	10	18	8	10	10	6	13	8	6	12	11	6	304
Ehime	32	33	30	26	28	23	25	28	26	26	15	19	14	16	13	10	16	19	15	13	16	11	10	12	476
Kochi	24	15	19	16	11	25	17	9	14	6	14	9	6	14	12	11	5	9	8	9	13	9	7	7	289
Fukuoka	85	61	58	70	81	57	49	53	40	52	39	40	40	49	34	42	36	30	36	36	23	34	31	20	1,096
Saga	21	12	15	16	10	9	11	16	6	7	5	14	3	5	6	7	8	9	8	7	3	13	6	4	221
Nagasaki	17	20	28	17	23	20	18	20	9	18	17	17	18	10	17	11	13	13	16	9	9	13	9	3	365
Kumamoto	31	35	28	16	31	26	20	23	18	27	21	22	15	22	15	10	14	16	22	14	15	10	11	13	475
Oita	41	24	15	21	16	23	29	19	14	22	19	11	14	20	8	10	12	11	16	7	16	13	10	9	400
Miyazaki	24	22	24	20	28	15	14	17	19	7	9	17	8	11	12	15	14	15	17	9	12	13	13	17	372
Kagoshima	43	34	16	30	29	30	20	20	28	23	12	19	15	17	12	21	17	20	21	13	15	14	16	13	498
Okinawa	14	10	11	9	11	10	7	14	9	6	14	12	9	7	6	9	10	5	14	4	11	9	12	2	225
total	1,992	1,889	1,790	1,658	1,628	1,620	1,514	1,472	1,357	1,268	1,075	1,195	2,338	1,093	1,030	1,057	972	928	978	909	845	802	867	774	31,051

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

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