

Relation between causal agents and code no. 00 total as type of Fatal and non-fatal accidents in 1999-2021

L	M	S	causal agent	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total
		111	engine		74	61		44		43	36	47	44	35	32	27	51	31	24	33	32	38	38	31	19	40	780
	11		engine	60	74	61	42	44	52	43	36	47	44	35	32	27	51	31	24	33	32	38	38	31	19	40	934
		121	power transmission mechanism		588	552		473		511	456	440	445	379	401	377	374	367	338	392	319	363	351	301	293	313	8,033
	12		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	9,680
		131	circular sawing machine		2,620	2,370		2,172		1,776	1,641	1,555	1,419	1,199	1,182	1,153	1,094	1,065	1,028	870	839	777	774	805	721	721	25,781
		132	band sawing machine		293	235		189		163	118	141	113	104	78	96	79	81	78	69	61	58	59	41	60	49	2,165
		133	wood planer machine		624	575		462		360	324	276	325	238	229	219	178	184	163	138	143	128	138	121	131	121	5,077
		134	hollow chisel mortiser, wood borer		105	131		86		66	53	66	53	43	37	33	35	42	31	36	30	26	33	18	25	14	963
		135	chamfering machine, router, woodworking milling machine		120	110		96		68	62	66	60	45	34	42	34	36	39	32	31	25	43	25	23	31	1,022
		136	chain saw		665	646		721		639	604	698	651	689	690	631	571	502	541	503	449	431	407	427	461	467	11,393
		139	other woodworking machines		1,217	1,023		878		763	680	713	634	519	518	551	524	483	475	411	436	390	374	387	349	372	11,697
	13		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	72,705
		141	leveling, transporting or loading machine		390	407		381		346	347	306	295	260	293	268	287	279	235	272	251	270	277	234	237	278	5,913
		142	excavating machine		1,237	1,108		913		942	823	752	752	663	645	671	696	681	690	573	567	586	593	653	672	650	14,867
		143	foundation work machine		125	107		80		86	87	69	63	54	53	56	64	62	62	70	61	57	64	51	61	44	1,376
		144	hardening machine		136	175		137		96	111	100	99	88	99	74	78	64	83	84	79	57	52	66	52	58	1,788
		145	demolition machine		144	131		126		131	125	119	120	112	98	104	105	171	186	192	193	181	164	171	162	186	2,921
		146	vehicle for high lift work		85	91		95		98	114	112	119	105	92	90	88	81	89	102	105	95	78	119	100	102	1,960
		149	other construction machines		452	460		388		421	364	330	337	313	292	327	331	322	297	212	227	180	198	168	173	195	5,987
	14		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	42,078
		151	lathe		516	527		424		395	433	363	385	287	298	306	338	267	241	284	244	210	249	227	222	233	6,449
		152	drill press, milling machine		712	680		572		558	536	510	494	319	327	323	298	300	299	314	286	232	250	229	220	218	7,677
		153	grinding machine, buffing machine		855	849		797		755	726	816	749	599	633	689	620	561	603	565	569	549	562	560	521	554	13,132
		154	power press		1,379	1,119		1,116		1,030	973	904	785	527	559	649	651	586	602	565	517	559	524	503	452	451	14,451
		155	forging pressure hammer		35	30		17		25	21	19	26	16	18	12	12	12	11	12	12	14	10	15	11	9	337
		156	shearing machine		242	194		213		176	156	189	160	144	141	120	141	102	132	105	125	95	101	95	91	93	2,815
		159	other metal manufacturing machines		1,927	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	21,544
	15		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	81,551

	161	centrifugal machine		22	21		21		16	24	18	25	13	12	16	13	18	16	15	13	11	17	18	12	14	335
	162	mixer, grinder		338	389		356		313	324	331	300	262	243	248	284	282	256	250	201	221	224	243	238	225	5,528
	163	roll machine (except printingroll machine)		671	646		602		566	532	529	509	446	479	416	439	440	424	385	348	417	365	358	354	321	9,247
	164	injection molding machine		226	194		204		174	146	162	108	119	121	90	104	97	73	73	69	75	95	76	71	84	2,361
	165	food manufacturing machine		2,525	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	38,803
	166	printing machine		546	521		470		424	410	390	377	326	304	295	290	263	249	211	224	216	191	176	180	206	6,269
	167	industrial robot		34	26		47		36	36	51	34	29	26	30	31	30	29	26	24	26	26	22	24	29	616
	169	other general power machines		5,563	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	75,612
16	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	166,672
	171	felling machine																	48	56	39	37	45	65	40	330
	172	mobile logging machine																	27	20	19	24	21	18	15	144
	173	skyline yarding machine																	12	15	7	11	15	11	16	87
	179	other mobile silviculture machine																	4	5	3	5	6	12	12	47
17	mobile silviculture machine																		91	96	68	77	87	106	83	608
I	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	374,228
	211	crane		1,356	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	19,351
	212	mobile crane		1,131	969		912		870	766	736	768	648	619	588	566	660	630	615	597	564	603	589	570	566	13,967
	213	derrick crane		2	5		3		2	4	4	4	1	5	3	2		2					1			38
	214	elevator, lift		251	321		280		228	268	271	218	214	174	168	189	180	193	184	145	155	176	197	159	171	4,142
	215	cargo lifting appliance		20	20		12		14	10	14	6	5	10	16	5	12	11	5	13	14	12	16	11	15	241
	216	gondola		8	15		10		14	13	8	21	11	12	13	5	11	7	4	5	10	7	8	5	11	198
	217	lumberyard equipment, logging cableway		72	63		45		50	42	35	44	34	39	24	34	21	27	19	21	11	12	9	11	16	629
	218	simple skyline yarding equipment																	3	1		1		3	4	12
	219	other powered crane		268	246		229		234	226	166	169	145	158	156	146	155	145	136	118	108	143	132	130	116	3,326
21	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	50,382
	221	truck		11,765	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	187,352
	222	forklift		2,612	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	43,808
	223	railway equipment		35	33		28		29	36	29	37	24	15	24	26	28	25	26	13	16	19	31	18	17	509
	224	conveyor		1,544	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	23,655
	225	loader		70	66		66		52	61	43	50	38	36	48	48	37	50	48	47	47	40	57	47	54	1,005
	226	straddle carrier		10			5		1	6	2	5	1	2	3	5	2	7	4	5	5	4	2	4	5	78
	227	rough terrain hauler		39	48		41		33	31	19	37	43	20	23	17	22	25	28	18	34	25	30	23	24	580
	229	other powered conveying machines		704	665		647		623	623	587	543	444	527	521	498	465	478	408	409	464	460	430	376	395	10,267

	22	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	314,478
		231	cars, bus, motorcycle	7,404	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	169,527
		232	railway vehicle	76	72		64		92	83	65	73	75	64	71	64	91	65	50	67	74	65	81	65	79	1,436
		239	other vehicles	860	793		770		801	758	861	702	660	636	644	713	565	560	539	489	513	488	493	395	441	12,681
	23	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	209,388
2		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	574,248
		311	boiler	24	28		19		32	27	36	17	23	23	14	18	19	22	7	13	14	16	17	10	10	389
		312	pressure vessel	61	65		52		42	39	35	39	36	24	29	41	26	18	29	31	38	22	29	23	23	702
		319	other pressure vessels	100	117		105		76	63	76	82	71	54	61	75	59	63	47	65	49	55	38	41	57	1,354
	31	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	2,949
		321	chemical facilities	43	27		44		57	45	40	40	26	25	33	33	17	38	29	32	24	43	30	21	47	694
	32	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	847
		331	gas welding equipment	109	96		83		97	57	84	70	85	64	66	57	53	53	54	50	56	82	65	40	35	1,356
		332	arc welding equipment	82	107		87		102	97	120	102	96	65	69	64	84	79	69	87	63	73	64	69	66	1,645
		339	other welding equipment	153	140		112		106	107	97	115	54	55	48	76	77	86	70	70	68	59	67	59	74	1,693
	33	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	5,670
		341	kiln, caldron	193	205		203		181	182	174	185	173	194	144	151	174	146	145	119	169	170	215	172	179	3,474
		342	industrial dryer	28	29		20		30	24	21	25	29	21	26	23	25	27	16	16	29	16	28	25	22	480
		349	other kiln, caldron	32	30		37		12	31	24	24	25	16	18	19	20	30	35	30	23	22	21	17	20	486
	34	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	5,159
		351	transmission	135	117		96		116	101	136	142	115	88	101	140	112	123	140	139	163	185	173	138	191	2,651
		352	electric power facilities	64	73		64		65	50	72	66	51	72	50	56	49	60	47	45	42	59	38	45	52	1,120
		359	other electrical equipment	125	138		108		106	96	85	105	72	86	99	65	91	89	76	92	88	91	90	116	114	1,932
	35	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	6,647
		361	human power cranes	96	113		115		100	94	97	95	57	66	82	60	65	72	56	62	64	84	406	573	907	3,264
		362	human power hauling equipment	2,397	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	72,974
		363	human power machine	180	189		124		126	130	124	114	85	106	96	100	113	110	101	85	100	85	94	94	99	2,255
		364	hand tool	4,709	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	71,595
	36	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	172,624
		371	ladder	5,829	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	108,379
		372	slinging tool	809	815		743		758	706	704	647	518	516	482	483	497	448	449	468	444	417	418	369	394	11,085
		379	other tools	3,806	4,022		4,131		4,233	4,572	4,534	4,848	3,873	3,945	4,220	4,080	4,303	4,371	4,481	4,733	5,066	5,109	5,568	5,180	5,553	90,628
	37	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	241,357
		391	other equipments, facilities	2,643	2,715		2,433		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	61,933
	39	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	69,898
3		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	505,151
		411	scaffolding	2,492	2,296		2,035		1,905	1,881	1,838	1,580	1,182	1,053	1,224	1,234	1,318	1,332	1,154	1,093	1,030	1,023	1,116	920	908	28,614
		412	timbering	224	224		148		132	169	164	116	88	86	87	83	86	72	83	65	52	67	50	49	75	2,120

		413	stairs, landing stage		4,678	4,760		5,048		5,151	5,575	5,476	5,467	5,088	4,992	5,133	5,118	4,986	5,337	5,320	5,618	5,786	5,950	6,270	6,343	6,597	108,693
		414	opening		523	578		493		476	505	494	449	457	395	387	433	429	420	413	456	420	494	502	484	466	9,274
		415	roof, beam, haze, crossbeam, principal rafter		2,087	2,135		1,859		1,851	1,657	1,360	1,317	1,103	1,187	1,337	1,360	1,246	1,170	1,069	1,030	962	1,080	946	836	814	26,406
		416	working platform, boot board		4,195	3,846		4,033		3,462	3,793	3,803	3,979	3,481	3,627	3,440	3,434	3,396	3,714	3,693	3,578	3,780	4,035	3,775	3,515	3,400	73,979
		417	passage		7,973	9,055		9,058		10,174	10,336	9,946	10,636	9,794	10,378	11,112	11,340	11,043	11,746	11,404	13,046	13,283	15,395	14,401	15,042	16,969	232,131
		418	building, establishment		4,496	4,631		4,258		4,172	4,498	4,348	4,267	3,931	4,020	4,244	4,047	4,061	3,713	3,862	3,746	4,058	4,196	3,739	3,895	3,973	82,155
		419	other temporary buildings, establishments		2,474	2,599		2,791		2,777	2,813	2,544	2,522	2,376	2,538	2,393	2,584	2,434	2,781	2,887	2,976	2,734	2,883	3,269	3,359	3,105	54,839
	41		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	705,737
	4		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	705,737
		511	explosive substance		52	47		48		44	29	27	22	19	21	15	17	31	18	17	16	14	14	14	11	18	494
		512	inflammable substance		214	218		190		166	197	199	163	127	152	111	147	124	153	112	101	112	106	164	98	110	2,964
		513	inflammable gas		122	116		108		88	93	94	106	59	63	95	85	61	79	49	80	59	70	59	55	37	1,578
		514	harmful substance		322	330		307		341	380	320	272	214	264	294	255	258	230	278	250	238	259	213	192	176	5,393
		515	radiation		3	1		2			1		3	1			1		1	1	1	5				2	22
		519	other hazards, harmful substances		463	534		520		524	472	467	419	411	350	452	416	432	445	415	470	475	411	481	456	452	9,065
	51		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	23,050
		521	metal material		6,858	6,771		5,751		5,534	5,629	5,427	4,893	3,850	3,822	3,749	3,901	3,663	3,809	3,509	3,463	3,595	3,548	3,394	3,070	3,131	87,367
		522	lumber, bamboo		2,779	2,444		2,066		1,947	1,822	1,734	1,427	1,289	1,266	1,270	1,254	1,277	1,198	1,095	1,111	1,070	1,067	1,028	1,007	969	29,120
		523	stone, sand, substance		1,011	917		721		642	580	543	492	396	401	408	408	400	448	321	326	336	334	347	323	312	9,666
		529	other materials		2,527	2,286		2,127		1,977	2,211	2,134	1,890	1,710	1,741	1,761	1,832	1,798	1,760	1,676	1,501	1,486	1,451	1,504	1,435	1,458	36,265
	52		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	198,255
	5		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	221,305
		611	load		7,443	7,791		7,077		6,837	7,227	7,576	7,146	6,106	6,009	6,009	6,080	5,917	5,950	5,997	6,103	6,134	6,487	6,581	6,841	6,995	132,306
		612	machine/equipment as load		727	862		713		706	713	710	683	586	590	528	589	543	458	459	451	396	423	461	431	397	11,426
	61		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	166,872
	6		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	166,872
		711	natural ground, rock		1,693	1,527		1,424		1,151	1,153	1,071	1,095	966	956	963	964	917	833	873	751	797	745	786	773	777	20,215
		712	standing tree		1,468	1,506		1,373		1,250	1,163	1,277	1,213	1,374	1,371	1,332	1,141	1,106	1,053	1,086	1,005	965	980	899	953	882	23,397
		713	water		175	155		178		183	204	170	182	163	126	1,450	155	184	188	130	148	135	204	160	206	140	4,636
		714	abnormal environment		41	46		40		41	41	44	45	27	44	59	83	65	26	35	51	55	65	31	32	28	899
		715	high/cold temperature environment		360	652		391		382	516	480	485	300	834	662	709	819	748	656	666	733	1,483	1,087	1,194	847	14,004
		719	other environments		2,351	2,851		2,368		2,848	2,605	2,174	2,515	2,351	2,608	3,021	3,294	3,407	3,944	2,924	3,321	3,484	3,968	2,987	3,230	3,758	60,009
	71		natural 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	140,982
	7		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	140,982
		911	other causal agent		3,394	3,019		2,891		3,115	3,431	3,206	3,367	2,797	2,859	3,365	3,088	3,168	3,141	3,386	3,190	3,603	3,374	3,672	9,486	22,953	90,505

91	other causal agent	3,292	3,394	3,019	2,693	2,891	3,165	3,115	3,431	3,206	3,367	2,797	2,859	3,365	3,088	3,168	3,141	3,386	3,190	3,603	3,374	3,672	9,486	22,953	99,655
	921 no causal agent		3,975	4,210		4,855		5,155	5,163	5,291	5,589	5,959	6,155	6,093	6,428	6,291	6,478	6,749	6,613	7,514	8,635	8,939	10,065	11,276	131,433
92	no causal agent	4,221	3,975	4,210	4,810	4,855	4,624	5,155	5,163	5,291	5,589	5,959	6,155	6,093	6,428	6,291	6,478	6,749	6,613	7,514	8,635	8,939	10,065	11,276	145,088
	999 unclassifiable		543	583		552		467	500	540	587	449	374	368	428	394	385	324	252	294	342	256	176	194	8,008
99	unclassifiable	675	543	583	559	552	515	467	500	540	587	449	374	368	428	394	385	324	252	294	342	256	176	194	9,757
9	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	254,500
0	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	2,943,023

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/2021enftcs.html>