



contact to harmful substance	18	31	21	29	20	19	24	16	17	30	19	19	16	16	17	12	14	11	16	18	17	27
electric shock	2	4	2	3	3	-	3	1	1	1	3	2	2	1	1	3	2	1	1	0	1	2
explosion	5	5	2	2	7	5	4	5	5	4	2	4	3	0	1	1	2	0	4	2	5	2
burst	6	10	16	4	10	12	9	9	11	4	4	6	4	5	4	8	3	6	4	2	6	6
fire	3	10	4	2	4	5	4	4	4	2	3	1	0	2	2	5	4	0	1	2	1	1
traffic accident (public road)	1,604	1,621	1,583	1,440	1,451	1,423	1,343	1,292	1,219	1,104	900	981	1,029	997	1,026	1,006	944	900	889	864	804	767
traffic accident (others)	15	16	13	5	5	8	7	7	11	6	3	5	7	11	6	9	11	6	7	9	9	5
reaction to motion/improper motion	1,773	1,731	1,749	1,682	1,744	1,702	1,686	1,788	1,821	1,894	1,707	1,719	1,808	1,744	1,737	1,719	1,754	1,827	1,942	2,153	2,146	2,362
others	41	55	45	45	50	72	52	49	51	61	67	58	93	59	57	42	73	61	71	72	74	209
unclassifiable	23	15	30	27	30	17	26	27	29	27	14	13	25	31	22	26	22	21	25	21	19	11
total	14,765	15,259	15,518	14,327	14,610	14,661	14,210	14,666	14,425	14,237	12,238	12,782	12,936	12,771	13,094	13,073	12,720	12,747	13,308	14,376	13,821	14,153

Causal agents (middle) of industrial accidents in road cargo transportation service in 1999-2020

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine	3	2	2	2	0	1	0	1	1	0	0	1	0	1	3	1	2	1	2	2	3	1
power transmission	9	6	9	8	4	4	6	8	7	4	8	7	8	5	7	7	10	7	1	3	7	3

mechanism																						
woodworking machine	30	28	25	28	21	22	15	15	19	26	16	16	15	14	18	10	10	15	12	7	6	12
construction machine	73	53	68	66	72	50	36	54	59	45	49	43	46	45	39	45	36	49	42	44	29	39
metal manufacturing machine	13	19	20	9	24	17	11	10	9	14	14	11	18	10	15	8	17	11	10	10	6	11
general machine	51	59	50	59	48	60	47	53	59	50	42	30	28	36	46	33	29	25	38	45	40	34
mobile silviculture machine																	1	2	2	2	2	0
crane	353	317	311	305	331	321	309	281	265	243	181	207	186	173	208	211	193	201	183	192	196	169
conveying machine	6,833	7,196	7,188	6,675	6,806	6,751	6,523	6,508	6,276	5,986	5,184	5,474	5,552	5,452	5,674	5,575	5,537	5,324	5,531	5,735	5,523	5,513
vehicle	400	350	352	373	356	405	401	446	506	461	388	357	376	397	358	397	352	369	405	412	385	321
pressure vessel	14	15	22	14	14	12	9	7	7	3	10	10	5	8	7	4	8	6	6	5	6	3
chemical facilities	1	0	3	2	0	3	1	5	1	0	0	3	2	1	0	2	3	2	0	4	0	2
welding equipment	3	3	3	4	1	3	3	0	7	3	2	1	1	2	0	2	3	0	3	5	1	1
kiln, caldron	0	1	0	2	1	-	1	0	1	0	1	0	1	2	1	0	1	0	0	0	1	0
electric	11	13	5	5	9	2	3	7	5	4	4	8	6	9	3	6	4	9	5	7	8	5

equipment																						
human power	554	567	595	636	618	668	626	698	782	876	684	771	747	812	825	821	796	969	931	992	1,035	1,078
machine, tools																						
tools	721	726	781	757	764	758	768	853	866	897	719	701	720	726	754	775	786	758	792	843	898	891
other																						
equipments,	114	116	131	89	93	114	109	158	135	147	141	149	129	145	126	114	120	115	122	158	141	157
facilities																						
temporary																						
buildings,	1,633	1,831	1,891	1,696	1,814	1,945	1,832	1,917	1,887	2,003	1,825	1,939	1,863	1,882	1,905	2,004	1,923	2,052	2,195	2,553	2,371	2,539
establishments																						
hazards,																						
harmful	33	41	33	32	31	22	35	33	25	46	22	20	28	20	22	20	19	17	24	17	24	41
substances																						
materials	1,001	971	935	841	835	802	755	777	763	671	561	550	558	552	588	575	505	467	517	522	471	437
load	2,129	2,159	2,249	1,953	2,031	1,887	1,834	1,902	1,976	1,945	1,613	1,592	1,598	1,585	1,585	1,503	1,466	1,462	1,462	1,562	1,518	1,569
natural																						
environment	173	193	273	187	191	212	220	243	181	235	182	272	429	281	321	357	261	304	334	512	319	351
other causal																						
agent	135	147	125	92	105	121	113	110	98	103	79	58	83	82	100	86	111	84	106	116	98	224
no causal agent	448	424	418	459	409	458	527	549	449	440	488	549	513	494	463	489	506	484	562	610	717	741
unclassifiable	30	22	29	33	32	23	26	31	41	35	25	13	24	37	26	28	21	14	23	18	16	11
total	14,765	15,259	15,518	14,327	14,610	14,661	14,210	14,666	14,425	14,237	12,238	12,782	12,936	12,771	13,094	13,073	12,720	12,747	13,308	14,376	13,821	14,153

Causal agents (small) of industrial accidents in road cargo transportation service in 1999-2020

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
engine			2		0		0	1	1	0	0	1	0	1	3	1	2	1	2	2	3	1
power transmission mechanism			9		4		6	8	7	4	8	7	8	5	7	7	10	7	1	3	7	3
circular sawing machine			18		16		10	6	10	19	8	11	8	9	10	6	7	9	9	1	4	9
band sawing machine			0		0		0	2	1	1	0	0	0	1	1	1	0	0	0	0	0	0
wood planer machine			0		0		0	0	0	0	2	0	1	0	0	0	0	0	0	0	1	0
hollow chisel mortiser, wood borer			0		1		0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0
chamfering machine, router, woodworking milling machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw			4		0		3	4	3	2	3	3	4	1	3	0	2	3	1	3	1	3
other woodworking machines			3		4		2	3	5	4	2	2	2	2	4	3	1	3	2	2	0	0
leveling, transporting or loading machine			17		18		12	15	25	11	18	8	7	15	16	12	13	14	17	12	12	10
excavating machine			34		28		19	20	14	18	17	20	25	17	13	20	10	16	14	20	9	14
foundation work machine			1		2		0	0	1	1	0	2	0	0	0	0	0	0	0	0	1	1
hardening machine			8		8		0	3	4	2	1	1	2	2	2	1	2	2	1	0	1	0
demolition machine			0		2		1	0	0	1	2	2	0	1	2	1	3	4	4	1	3	0
vehicle for high lift			0		2		0	1	2	3	2	4	2	1	1	3	3	6	2	3	1	6



industrial robot			0		0		0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
other general power machines			44		40		45	45	45	40	36	27	25	34	42	31	27	24	34	37	36	28
felling machine																0	1	1	1	2	0	
mobile logging machine																1	0	1	1	0	0	
skyline yarding machine																0	0	0	0	0	0	
other mobile silviculture machine																0	1	0	0	0	0	
crane			124		136		118	123	108	101	64	80	64	78	72	70	60	73	70	67	75	63
mobile crane			154		151		159	137	129	123	94	107	107	78	112	112	116	109	98	106	104	96
derrick crane			0		1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
elevator, lift			18		24		17	16	18	15	17	10	8	13	19	15	12	11	11	12	13	3
cargo lifting appliance			0		0		0	0	1	0	0	0	2	0	0	0	0	1	0	0	1	2
gondola			0		0		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
lumberyard equipment, logging cableway			0		0		0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
simple skyline yarding equipment																	0	0	0	0	0	0
other powered crane			15		19		15	5	9	4	5	10	5	3	5	14	5	6	4	7	3	4
truck			6,205		5,866		5,599	5,541	5,350	5,157	4,456	4,717	4,763	4,688	4,969	4,883	4,845	4,608	4,801	4,930	4,758	4,806
forklift			821		824		810	855	791	707	633	622	680	632	578	592	600	615	627	708	661	604

railway equipment			0		0		0	0	1	0	2	1	2	3	1	0	0	0	0	4	0	
conveyor			121		84		78	71	93	85	63	74	65	84	87	66	49	66	66	67	72	69
loader			2		4		2	3	6	3	2	5	3	5	2	4	7	4	3	2	4	2
straddle carrier			0		0		0	3	2	0	0	0	0	3	0	1	1	1	3	0	0	1
rough terrain hauler			2		0		1	1	1	0	2	1	0	0	0	2	0	3	1	3	1	
other powered conveying machines			37		28		33	34	32	34	26	54	39	37	37	29	33	30	28	27	21	30
cars, bus, motorcycle			339		343		383	433	489	439	378	341	363	376	344	365	335	355	396	403	376	314
railway vehicle			1		1		0	0	3	2	2	1	1	0	3	3	1	1	0	0	0	0
other vehicles			12		12		18	13	14	20	8	15	12	21	11	29	16	13	9	9	9	7
boiler			0		0		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
pressure vessel			4		0		0	1	0	0	0	0	1	1	0	1	1	1	1	0	0	0
other pressure vessels			18		14		9	6	7	3	9	10	4	7	7	3	7	5	5	5	6	3
chemical facilities			3		0		1	5	1	0	0	3	2	1	0	2	3	2	0	4	0	2
gas welding equipment			1		1		3	0	4	2	1	1	1	0	0	1	2	0	2	3	1	0
arc welding equipment			1		0		0	0	3	0	1	0	0	1	0	1	1	0	0	2	0	0
other welding equipment			1		0		0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	1
kiln, caldron			0		1		1	0	1	0	1	0	0	2	1	0	1	0	0	0	1	0
industrial dryer			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other kiln, caldron			0		0		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
transmission			0		3		2	1	1	1	2	2	3	7	2	3	1	4	3	3	4	3
electric power facilities			0		1		0	1	0	0	1	2	1	1	0	1	2	0	0	0	0	0



other electrical equipment			5	5		1	5	4	3	1	4	2	1	1	2	1	5	2	4	4	2
human power cranes			6	7		11	5	8	11	2	4	2	5	7	2	5	8	5	13	95	138
human power hauling equipment			465	514		513	594	694	770	593	692	645	705	723	738	724	881	856	913	856	855
human power machine			29	17		17	17	8	14	7	10	8	17	14	10	12	10	9	9	12	8
hand tool			95	80		85	82	72	81	82	65	92	85	81	71	55	70	61	57	72	77
ladder			171	175		201	189	213	230	201	224	209	179	236	215	233	200	237	254	272	317
slinging tool			59	67		76	65	54	58	37	42	34	53	45	40	38	29	36	29	27	32
other tools			551	522		491	599	599	609	481	435	477	494	473	520	515	529	519	560	599	542
other equipment, facilities			131	93		109	158	135	147	141	149	129	145	126	114	120	115	122	158	141	157
scaffolding			17	16		8	13	16	10	15	4	11	10	3	16	16	5	7	7	11	13
timbering			0	2		1	1	1	0	0	1	0	0	1	0	0	0	2	0	0	0
stairs, landing stage			301	304		282	304	344	371	356	342	333	312	347	400	368	395	461	489	471	521
opening			27	25		23	32	17	22	30	28	29	26	33	23	18	27	35	23	36	25
roof, beam, haze, crossbeam, principal rafter			16	10		7	16	16	11	14	11	17	19	9	7	5	8	9	8	12	9
working platform, boot board			304	258		272	278	289	281	261	280	246	237	268	269	255	258	254	277	265	265
passage			660	594		684	725	635	733	627	707	698	750	697	768	749	789	841	1,085	990	1,054
building, establishment			393	386		340	358	359	379	335	331	345	331	367	341	297	346	365	421	336	383

other temporary buildings, establishments			173		219		215	190	210	196	187	235	184	197	180	180	215	224	221	243	250	269
explosive substance			1		1		1	4	1	2	0	2	1	1	2	0	2	0	0	0	2	1
inflammable substance			5		7		5	4	6	3	3	2	3	2	4	5	5	1	3	3	5	5
inflammable gas			1		3		3	3	1	2	1	1	5	3	1	0	2	1	3	3	3	3
harmful substance			13		13		12	9	10	18	10	7	12	6	2	3	4	5	5	6	4	15
radiation			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances			13		7		14	13	7	21	8	8	7	8	13	12	6	10	13	5	10	17
metal material			491		411		384	382	364	331	264	249	234	249	288	266	233	231	253	256	227	186
lumber, bamboo			267		261		238	250	257	206	194	195	212	193	194	194	168	157	170	164	159	168
stone, sand, substance			44		30		26	21	25	21	15	13	14	14	17	25	16	9	16	19	17	14
other materials			133		133		107	124	117	113	88	93	98	96	89	90	88	70	78	83	68	69
load			2,125		1,929		1,732	1,779	1,857	1,818	1,510	1,480	1,507	1,492	1,488	1,412	1,388	1,382	1,390	1,494	1,446	1,498
machine/equipment as load			124		102		102	123	119	127	103	112	91	93	97	91	78	80	72	68	72	71
natural ground, rock			37		25		19	14	24	31	18	17	20	11	19	16	20	19	14	27	18	19
standing tree			6		7		4	4	8	5	11	8	13	7	5	2	6	1	8	3	7	6
water			8		10		8	10	6	7	7	4	157	11	7	10	10	11	6	9	8	8
abnormal environment			2		4		1	0	0	0	3	0	2	9	4	2	1	0	0	1	5	2
high/cold temperature environment			47		30		30	38	28	48	24	85	58	50	73	64	73	51	84	178	106	135
other environments			173		115		158	177	115	144	119	158	179	193	213	263	151	222	222	294	175	181

other causal agent			125		105		113	110	98	103	79	58	83	82	100	86	111	84	106	116	98	224
no causal agent			418		409		527	549	449	440	488	549	513	494	463	489	506	484	562	610	717	741
unclassifiable			29		32		26	31	41	35	25	13	24	37	26	28	21	14	23	18	16	11
total			15,518		14,610		14,210	14,666	14,425	14,237	12,238	12,782	12,936	12,771	13,094	13,073	12,720	12,747	13,308	14,376	13,821	14,153

#### Workers age of industrial accidents in road cargo transportation service in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
19 years old or less	125	150	155	127	102	120	118	128	125	139	86	107	92	97	118	131	110	134	142	136	167	147
20-29	3,491	3,367	3,137	2,603	2,410	2,256	1,945	1,886	1,796	1,675	1,303	1,257	1,158	1,108	1,104	1,045	979	945	1,086	1,212	1,125	1,248
30-39	3,972	4,313	4,553	4,245	4,636	4,552	4,367	4,359	4,146	4,056	3,216	3,254	3,099	2,863	2,659	2,474	2,236	2,155	2,116	2,117	1,912	1,868
40-49	3,289	3,273	3,287	3,045	3,175	3,299	3,351	3,684	3,692	3,679	3,552	3,879	4,140	4,282	4,411	4,495	4,380	4,332	4,296	4,482	4,089	3,991
50-59	3,315	3,497	3,634	3,541	3,450	3,507	3,417	3,557	3,439	3,285	2,824	2,883	2,955	2,922	3,168	3,287	3,332	3,340	3,764	4,170	4,231	4,459
60 years old or more	573	659	752	766	837	927	1,012	1,052	1,227	1,403	1,257	1,402	1,492	1,499	1,634	1,641	1,683	1,841	1,904	2,259	2,297	2,440
total	14,765	15,259	15,518	14,327	14,610	14,661	14,210	14,666	14,425	14,237	12,238	12,782	12,936	12,771	13,094	13,073	12,720	12,747	13,308	14,376	13,821	14,153

#### Workers' number of workplace of industrial accidents in road cargo transportation service in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	1,869	2,025	2,019	1,881	1,921	1,942	1,849	1,855	1,781	1,773	1,450	1,482	1,524	1,533	1,392	1,438	1,344	1,341	1,383	1,375	1,355	1,290
10-29	5,252	5,404	5,545	5,278	5,094	5,106	5,005	5,104	4,906	4,754	4,182	4,305	4,434	4,293	4,358	4,461	4,147	4,105	4,234	4,378	3,992	4,196

30-49	3,256	3,395	3,380	3,010	3,223	3,200	3,042	3,184	3,067	3,042	2,661	2,794	2,741	2,667	2,940	2,810	2,893	2,872	2,971	3,233	3,187	3,317
50-99	2,606	2,593	2,689	2,483	2,494	2,502	2,508	2,574	2,527	2,444	2,085	2,243	2,337	2,344	2,416	2,371	2,370	2,404	2,529	2,944	2,834	2,801
100-299	1,603	1,642	1,666	1,477	1,674	1,672	1,569	1,677	1,718	1,748	1,471	1,564	1,533	1,563	1,583	1,587	1,597	1,557	1,689	1,940	1,927	1,975
300 workers or more	179	200	219	198	204	239	237	272	426	476	389	394	367	371	405	406	369	468	502	506	526	574
total	14,765	15,259	15,518	14,327	14,610	14,661	14,210	14,666	14,425	14,237	12,238	12,782	12,936	12,771	13,094	13,073	12,720	12,747	13,308	14,376	13,821	14,153

Month of industrial accidents in road cargo transportation service in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	1,137	1,123	1,343	1,152	1,160	1,159	1,070	1,244	1,023	1,131	1,005	1,023	1,069	1,059	1,071	1,078	1,050	1,080	1,110	1,297	1,035	1,069
February	1,215	1,254	1,337	1,091	1,159	1,246	1,116	1,227	1,143	1,232	1,022	1,037	941	1,130	1,037	1,250	989	987	1,103	1,209	1,105	1,150
March	1,310	1,415	1,500	1,234	1,333	1,384	1,395	1,376	1,348	1,330	1,139	1,214	1,237	1,172	1,152	1,244	1,123	1,111	1,189	1,253	1,186	1,206
April	1,215	1,294	1,282	1,145	1,217	1,202	1,178	1,185	1,209	1,211	1,059	1,030	1,055	1,038	1,050	995	1,054	1,100	1,054	1,106	1,192	1,130
May	1,092	1,164	1,180	1,165	1,178	1,031	1,025	1,157	1,181	1,178	869	893	951	958	995	950	947	974	998	1,031	1,104	1,024
June	1,243	1,257	1,281	1,184	1,198	1,289	1,215	1,213	1,232	1,143	1,010	1,052	1,131	1,041	1,016	1,051	1,089	1,038	1,075	1,166	1,068	1,292
July	1,334	1,284	1,310	1,338	1,310	1,291	1,310	1,261	1,205	1,366	1,151	1,187	1,163	1,061	1,213	1,212	1,207	1,138	1,141	1,355	1,331	1,251
August	1,240	1,309	1,228	1,137	1,129	1,252	1,116	1,189	1,245	1,170	950	1,057	1,095	1,075	1,082	1,022	1,068	1,006	1,102	1,172	1,222	1,179
September	1,334	1,366	1,281	1,114	1,249	1,166	1,152	1,176	1,193	1,162	969	1,049	1,094	1,018	1,120	1,015	1,084	1,068	1,067	1,250	1,157	1,159
October	1,215	1,259	1,303	1,242	1,263	1,284	1,177	1,232	1,250	1,158	1,056	1,088	1,052	1,062	1,184	1,091	1,042	1,104	1,213	1,228	1,157	1,316
November	1,169	1,291	1,212	1,218	1,198	1,204	1,100	1,214	1,164	1,047	986	1,014	1,021	1,069	1,043	1,017	1,041	1,028	1,085	1,120	1,106	1,093
December	1,261	1,243	1,261	1,307	1,216	1,153	1,356	1,192	1,232	1,109	1,022	1,138	1,127	1,088	1,131	1,148	1,026	1,113	1,171	1,189	1,158	1,284
total	14,765	15,259	15,518	14,327	14,610	14,661	14,210	14,666	14,425	14,237	12,238	12,782	12,936	12,771	13,094	13,073	12,720	12,747	13,308	14,376	13,821	14,153





Kumamoto	196	226	204		201		194	244	207	228	182	171	180	157	193	168	158	181	172	214	190	197
Oita	128	122	108		111		124	104	118	103	96	93	87	77	73	90	69	93	84	107	100	105
Miyazaki	133	113	130		122		154	120	144	120	118	115	107	106	104	134	127	120	114	133	135	127
Kagoshima	199	210	202		185		226	209	219	203	163	174	176	168	188	190	177	175	161	187	178	194
Okinawa	19	38	21		30		46	23	37	35	35	51	48	44	58	43	56	62	81	62	72	85
total	14,765	15,259	15,518		14,610		14,210	14,666	14,425	14,237	12,238	12,782	12,936	12,771	13,094	13,073	12,720	12,747	13,308	14,376	13,821	14,153

Industrial accidents mean fatal and non-fatal injuries 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 road cargo transportation service in Japan in 1999-2020

road cargo transportation service industry Code No.0403

Type of fatal accidents in road cargo transportation service in 1999-2020

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
fall from height	16	24	23	12	19	20	21	14	15	13	14	12	18	7	9	17	17	5	18	12	17	16
falling to same level	1	3	1	1	4	1	0	2	3	1	3	2	2	2	1	1	0	2	1	1	1	0
crash	1	2	0	0	2	0	3	3	0	1	0	1	0	0	1	1	1	1	0	1	1	0
struck by flying or falling object	3	7	7	12	7	10	10	8	7	7	9	10	4	5	3	6	6	3	7	4	5	3









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	0	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	0	0	0	0	0	0	0	0	0	0	0	0
other metal manufacturing machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
food manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
other general power machines	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
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	1	0	0	2	1	1	0	1	1	3	0	0	0	0	0	2	1	1	0	0	0	0	2
mobile crane	2	3	3	4	1	4	5	4	3	3	2	3	3	1	1	2	2	1	4	2	3	1	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	0	0	0	1	1	0	0	1	2	1	0	1	1	0	0	0	0	1	0	0	0	0	0



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
industrial dryer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric power facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other electrical equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power cranes	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
human power hauling equipment	0	0	1	0	0	0	1	2	2	0	2	1	0	2	0	1	2	0	1	1	3	1	
human power machine	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hand tool	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ladder	0	0	0	0	0	0	0	3	0	0	1	1	0	0	0	0	0	0	2	0	0	1	
slinging tool	1	2	2	4	0	3	2	2	0	2	1	0	0	5	0	1	1	2	1	1	0	0	
other tools	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	3	0	0	0	
other equipment, facilities	0	0	1	1	1	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	2	2	
scaffolding	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
timbering	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
stairs, landing stage	2	0	0	0	2	1	0	0	0	0	1	0	1	1	0	1	0	0	1	0	1	1	
opening	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	
roof, beam, haze, crossbeam, principal rafter	1	2	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	0	1	0	0	0	
working platform, boot board	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	
passage	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0	
building, establishment	1	1	2	1	3	2	5	2	1	2	1	2	2	0	0	1	0	0	1	0	1	2	
other temporary buildings, establishments	1	2	0	0	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	

explosive substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable substance	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
harmful substance	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
metal material	1	1	3	1	0	2	0	1	1	0	2	4	0	2	0	0	1	1	0	0	1	0	0
lumber, bamboo	0	0	1	2	1	0	2	1	3	2	0	2	0	1	0	1	0	0	1	0	0	0	2
stone, sand, substance	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other materials	0	0	0	0	0	0	1	1	0	0	4	1	0	1	0	0	2	0	0	0	0	0	0
load	3	8	1	4	4	14	9	6	10	6	5	4	8	9	4	4	5	4	5	3	6	4	4
machine/equipment as load	3	1	1	0	2	1	1	0	1	1	2	2	0	0	0	0	3	0	2	0	0	0	1
natural ground, rock	1	0	1	0	2	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0
standing tree	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
water	1	0	0	0	0	1	1	1	0	0	0	0	145	1	0	0	2	0	0	0	1	0	0
abnormal environment	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0
high/cold temperature environment	0	0	0	0	0	0	2	0	0	0	1	2	1	0	1	0	2	0	0	3	2	1	1
other environments	1	2	0	0	1	0	1	2	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0
other causal agent	2	0	0	1	3	3	2	0	2	0	2	0	3	0	2	1	0	0	0	1	1	1	1
no causal agent	0	0	0	2	1	1	3	7	6	9	4	8	7	6	10	8	10	14	19	8	11	4	4
unclassifiable	1	0	0	1	0	0	1	0	1	1	2	2	2	1	1	1	0	1	1	2	0	0	0
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78	78







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

Nara	2	4	2	2	2	3	4	5	2	0	0	2	1	3	2	2	1	2	2	2	0	0
Wakayama	1	4	4	3	4	2	0	0	0	1	0	2	1	1	0	0	3	1	2	0	1	0
Tottori	0	1	1	1	4	2	3	1	0	1	0	0	1	1	0	0	1	0	1	0	1	0
Shimane	0	2	4	2	1	1	2	1	0	2	3	1	1	0	1	0	0	0	0	0	2	0
Okayama	7	4	6	8	4	7	5	7	4	0	3	3	2	3	5	3	5	2	3	2	1	3
Hiroshima	14	8	6	3	5	15	8	12	7	4	2	4	6	4	2	1	3	2	4	4	6	0
Yamaguchi	3	5	2	3	0	7	5	0	2	1	2	2	3	0	1	3	0	3	0	2	1	0
Tokushima	0	3	2	1	1	1	3	1	0	1	1	0	0	0	0	0	2	1	0	1	1	1
Kagawa	2	3	5	2	4	0	1	0	2	2	2	1	1	2	0	2	0	0	3	3	3	0
Ehime	5	2	2	3	2	1	1	1	3	4	0	2	0	2	0	3	1	0	2	0	0	0
Kochi	1	2	3	3	1	1	0	2	1	1	1	1	0	1	2	0	1	0	0	1	1	2
Fukuoka	16	10	12	8	14	11	5	13	14	10	5	6	10	7	5	6	7	2	7	9	6	6
Saga	5	1	3	5	5	0	2	5	1	1	0	2	0	1	0	1	1	2	2	0	1	2
Nagasaki	2	0	5	0	1	4	2	2	2	4	1	1	1	1	1	0	1	2	2	1	1	0
Kumamoto	3	2	1	3	5	4	4	1	2	7	1	2	1	4	3	0	1	0	2	1	2	0
Oita	2	1	2	5	0	4	2	2	1	1	1	1	1	0	0	0	0	0	0	0	1	2
Miyazaki	1	3	4	2	4	0	3	1	1	0	0	3	0	3	0	0	1	1	3	2	0	3
Kagoshima	4	5	1	8	3	1	1	3	4	3	1	3	3	2	0	2	2	2	2	0	1	2
Okinawa	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78

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

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