

contact to harmful substance	21	32	25	29	23	22	26	20	19	30	19	20	17	18	30	13	14	11	17	18	18	28
electric shock	2	4	3	3	3	0	3	1	1	1	3	2	2	3	1	3	2	1	1	0	1	2
explosion	5	6	3	2	7	5	4	7	5	4	2	4	3	0	2	1	2	1	4	2	5	2
burst	7	11	17	4	10	13	9	9	11	5	5	6	4	5	4	8	4	7	4	2	6	6
fire	3	10	5	2	4	6	4	6	4	2	3	2	0	2	3	5	5	0	1	2	3	1
traffic accident (public road)	1,621	1,644	1,613	1,486	1,490	1,452	1,380	1,317	1,274	1,143	928	1,023	1,051	1,029	1,061	1,036	962	926	916	890	831	792
traffic accident (others)	18	19	15	6	5	8	8	9	14	7	4	5	9	12	8	10	11	7	7	11	11	8
reaction to motion/improper motion	1,880	1,829	1,868	1,793	1,874	1,832	1,835	1,934	1,991	2,055	1,869	1,866	1,963	1,927	1,932	1,893	1,960	2,056	2,203	2,404	2,475	2,734
others	44	58	47	46	52	76	56	52	53	67	72	64	103	65	61	45	78	69	79	80	82	223
unclassifiable	24	16	32	29	30	18	27	28	31	28	15	15	27	35	24	31	23	23	27	22	22	13
total	15,735	16,217	16,584	15,319	15,670	15,718	15,349	15,850	15,579	15,443	13,233	13,815	13,998	13,834	14,190	14,210	13,885	13,977	14,706	15,818	15,382	15,815

Causal agents (middle) of industrial accidents in land cargo transportation 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	1	1	0	1	1	0	0	3	0	1	3	2	3	1	2	2	3	1
power transmission	11	7	9	8	7	5	8	9	9	4	11	11	10	5	8	7	14	8	3	5	9	4

mechanism																						
woodworking machine	41	42	35	35	24	31	23	26	26	31	23	22	22	24	24	20	17	22	13	11	9	18
construction machine	78	59	72	69	77	53	40	58	62	49	50	45	50	49	41	45	39	51	47	46	30	40
metal manufacturing machine	22	22	21	11	26	21	14	15	14	16	16	14	18	12	17	8	18	12	12	11	8	13
general machine	62	69	63	70	63	79	66	70	75	63	58	38	41	44	57	49	40	34	51	56	59	51
mobile silviculture machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	2	0
crane	384	347	338	339	351	338	328	297	281	268	197	217	196	192	218	223	208	209	195	201	214	178
conveying machine	7,149	7,536	7,570	7,043	7,185	7,147	6,919	6,934	6,656	6,368	5,442	5,791	5,862	5,732	6,000	5,895	5,822	5,653	5,881	6,089	5,879	5,879
vehicle	417	371	370	401	378	422	431	467	553	495	427	395	389	417	386	427	367	388	424	445	403	352
pressure vessel	16	16	26	14	15	12	9	8	8	3	12	10	5	8	7	5	8	6	6	6	6	3
chemical facilities	1	0	3	2	1	3	2	5	1	1	0	3	2	1	0	2	3	2	0	4	0	2
welding equipment	3	3	4	6	2	3	3	0	7	3	2	1	1	2	0	3	3	0	3	5	3	1
kiln, caldron	0	1	1	2	2	1	1	1	2	0	1	1	1	2	1	0	1	0	1	0	1	0
electric	11	14	6	5	9	2	4	8	6	5	5	8	6	11	3	8	4	10	5	9	8	6

equipment																						
human power	601	633	662	697	672	736	693	785	862	985	786	866	838	923	926	943	919	1,090	1,104	1,171	1,199	1,299
machine, tools																						
tools	802	788	849	818	853	831	861	943	967	995	785	781	824	823	856	891	901	887	917	968	1,058	1,048
other																						
equipments,	130	127	151	102	111	126	132	182	147	168	171	167	147	165	154	128	141	144	151	194	173	205
facilities																						
temporary																						
buildings,	1,773	1,967	2,038	1,846	1,974	2,075	2,017	2,088	2,048	2,194	1,995	2,121	2,059	2,075	2,074	2,207	2,157	2,285	2,458	2,845	2,686	2,828
establishments																						
hazards,																						
harmful	37	41	36	32	36	25	37	36	27	48	22	20	29	22	36	24	21	18	25	19	26	43
substances																						
materials	1,083	1,034	1,003	897	900	871	803	837	821	724	601	581	594	591	631	615	547	516	575	551	522	470
load	2,280	2,300	2,418	2,096	2,185	2,054	2,011	2,086	2,163	2,144	1,803	1,763	1,775	1,761	1,765	1,659	1,667	1,651	1,690	1,793	1,773	1,875
natural																						
environment	178	195	285	199	200	220	224	254	188	250	187	286	448	299	339	382	273	326	358	556	350	385
other causal																						
agent	146	167	142	97	109	129	122	114	109	112	84	65	97	92	111	93	125	96	122	121	115	243
no causal agent	475	453	449	491	456	507	575	593	504	481	527	592	558	542	504	542	563	550	635	689	824	857
unclassifiable	32	23	31	37	33	26	26	33	42	36	28	14	26	41	29	32	23	16	26	19	22	14
total	15,735	16,217	16,584	15,319	15,670	15,718	15,349	15,850	15,579	15,443	13,233	13,815	13,998	13,834	14,190	14,210	13,885	13,977	14,706	15,818	15,382	15,815

Causal agents (small) of industrial accidents in land cargo transportation 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		1		0	1	1	0	0	3	0	1	3	2	3	1	2	2	3	1
power transmission mechanism			9		7		8	9	9	4	11	11	10	5	8	7	14	8	3	5	9	4
circular sawing machine			23		18		17	14	14	21	11	15	10	12	13	12	11	12	9	3	5	12
band sawing machine			1		1		0	2	3	2	0	0	0	1	1	1	1	0	0	0	0	0
wood planer machine			0		0		0	0	0	0	2	0	1	1	0	0	0	0	0	0	1	0
hollow chisel mortiser, wood borer			1		1		0	0	0	0	2	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	4
other woodworking machines			6		4		3	6	6	6	5	4	7	8	7	7	3	7	3	4	2	2
leveling, transporting or loading machine			19		21		13	17	25	13	18	8	8	17	16	12	15	15	20	12	12	10
excavating machine			36		29		20	22	15	19	17	21	27	19	14	20	10	16	14	21	10	15
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	5	2	1	1	2	2	2	1	3	3	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	3	4	2	4	2	1	2	3	3	6	4	4	1	6

industrial robot			1		1		1	0	0	0	0	0	2	0	0	0	1	0	1	0	0	1
other general power machines			54		51		58	61	60	51	49	35	34	42	51	44	35	32	46	48	53	42
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			132		146		129	129	114	116	69	83	67	87	74	77	69	76	76	74	84	67
mobile crane			168		158		166	143	135	131	101	111	109	84	114	115	119	111	103	107	106	97
derrick crane			0		1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
elevator, lift			21		27		17	19	20	16	21	11	13	16	25	17	14	12	12	13	18	6
cargo lifting appliance			0		0		0	0	1	1	0	0	2	0	0	0	0	1	0	0	1	3
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			17		19		16	6	11	4	5	12	5	4	5	14	6	8	4	7	5	4
truck			6,374		6,036		5,772	5,725	5,521	5,310	4,562	4,856	4,888	4,799	5,098	5,005	4,945	4,743	4,952	5,062	4,884	4,936
forklift			985		980		978	1,041	957	869	752	760	825	762	733	739	742	771	780	874	842	789

railway equipment			1		2		0	0	4	0	2	1	2	5	1	2	1	0	1	0	5	1
conveyor			155		121		115	104	122	127	83	100	89	110	115	99	81	97	99	105	106	109
loader			2		5		3	3	6	4	4	6	3	5	2	4	7	4	4	3	4	2
straddle carrier			0		0		0	3	2	0	0	0	0	3	0	2	1	1	4	0	0	1
rough terrain hauler			2		0		1	2	1	0	2	1	0	0	0	2	0	3	1	3	1	
other powered conveying machines			51		41		50	56	43	58	37	67	55	48	51	44	43	37	38	44	35	40
cars, bus, motorcycle			355		361		409	451	534	472	412	372	375	393	370	391	346	370	412	434	390	342
railway vehicle			2		2		1	0	3	2	3	2	1	1	3	3	1	2	1	0	1	0
other vehicles			13		15		21	16	16	21	12	21	13	23	13	33	20	16	11	11	12	10
boiler			0		0		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
pressure vessel			5		0		0	1	0	0	0	0	1	1	0	1	1	1	1	0	0	0
other pressure vessels			21		15		9	7	8	3	11	10	4	7	7	4	7	5	5	6	6	3
chemical facilities			3		1		2	5	1	1	0	3	2	1	0	2	3	2	0	4	0	2
gas welding equipment			2		2		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	2	1	0	0	2	2	0
other welding equipment			1		0		0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	1
kiln, caldron			1		2		1	1	2	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	1	1	0	0	0	0	0	1	0	0	0
transmission			1		3		2	1	1	1	3	2	3	9	2	5	1	4	3	4	4	4
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		2	6	5	4	1	4	2	1	1	2	1	6	2	5	4	2
human power cranes			8	8		12	6	8	12	2	5	2	6	8	3	5	10	7	14	111	162
human power hauling equipment			510	553		562	662	759	860	674	773	718	793	808	838	833	986	1,012	1,066	990	1,026
human power machine			30	17		20	18	10	14	9	11	10	17	17	10	13	13	11	9	12	9
hand tool			114	94		99	99	85	99	101	77	108	107	93	92	68	81	74	82	86	102
ladder			190	198		222	213	248	252	217	247	231	205	261	249	265	227	272	278	310	362
slinging tool			65	74		81	73	59	61	38	46	36	58	46	42	41	34	38	30	33	36
other tools			594	581		558	657	660	682	530	488	557	560	549	600	595	626	607	660	715	650
other equipment, facilities			151	111		132	182	147	168	171	167	147	165	154	128	141	144	151	194	173	205
scaffolding			20	18		12	14	18	10	16	6	11	13	5	18	16	5	10	9	13	14
timbering			0	2		1	1	1	0	0	1	0	0	1	0	0	0	2	0	0	0
stairs, landing stage			322	337		312	341	377	412	388	369	370	348	372	431	416	439	495	537	526	572
opening			31	26		25	34	20	26	35	33	32	28	35	29	24	35	40	26	40	28
roof, beam, haze, crossbeam, principal rafter			17	12		7	19	18	14	15	12	17	21	9	10	6	8	9	8	12	9
working platform, boot board			336	288		291	309	306	314	287	307	284	268	285	312	290	295	298	311	310	301
passage			699	642		754	771	685	792	691	783	775	819	776	848	830	891	962	1,234	1,133	1,189
building, establishment			415	410		372	385	392	407	361	354	370	361	394	362	336	370	398	458	367	409

other temporary buildings, establishments			198		239		243	214	231	219	202	256	200	217	197	197	239	242	244	262	285	306
explosive substance			1		1		1	5	1	2	0	2	1	1	2	0	2	0	0	1	2	1
inflammable substance			6		8		5	4	6	3	3	2	3	2	5	6	6	2	3	3	5	5
inflammable gas			1		4		4	3	1	2	1	1	5	3	1	0	2	1	3	3	3	3
harmful substance			14		16		12	11	12	19	10	7	12	6	14	3	4	5	6	6	5	16
radiation			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances			14		7		15	13	7	22	8	8	8	10	14	15	7	10	13	6	11	18
metal material			535		444		408	417	398	363	282	269	254	266	306	285	253	256	277	275	253	201
lumber, bamboo			281		281		253	265	271	219	204	202	219	205	206	201	175	166	189	171	168	176
stone, sand, substance			44		33		28	21	26	23	15	13	15	14	18	27	16	9	16	21	19	14
other materials			143		142		114	134	126	119	100	97	106	106	101	102	103	85	93	84	82	79
load			2,292		2,076		1,900	1,954	2,034	2,007	1,695	1,644	1,679	1,658	1,661	1,561	1,582	1,568	1,612	1,720	1,695	1,799
machine/equipment as load			126		109		111	132	129	137	108	119	96	103	104	98	85	83	78	73	78	76
natural ground, rock			37		27		20	15	25	32	18	17	22	11	19	17	20	20	15	28	19	21
standing tree			6		7		4	4	8	5	12	8	13	7	5	3	6	1	8	4	8	7
water			8		11		8	10	6	7	7	4	161	12	8	10	10	11	7	11	8	10
abnormal environment			3		4		1	0	1	0	3	1	3	11	4	2	1	0	0	2	5	2
high/cold temperature environment			49		33		30	42	31	55	25	91	61	58	82	75	78	69	98	198	127	156
other environments			182		118		161	183	117	151	122	165	188	200	221	275	158	225	230	313	183	189

other causal agent			142		109		122	114	109	112	84	65	97	92	111	93	125	96	122	121	115	243
no causal agent			449		456		575	593	504	481	527	592	558	542	504	542	563	550	635	689	824	857
unclassifiable			31		33		26	33	42	36	28	14	26	41	29	32	23	16	26	19	22	14
total			16,584		15,670		15,349	15,850	15,579	15,443	13,233	13,815	13,998	13,834	14,190	14,210	13,885	13,977	14,706	15,818	15,382	15,815

Workers age of industrial accidents in land cargo transportation 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	150	176	182	145	126	148	146	147	152	160	98	123	113	116	141	150	131	162	167	156	198	178
20-29	3,724	3,597	3,372	2,808	2,660	2,469	2,178	2,088	1,986	1,896	1,468	1,404	1,309	1,246	1,232	1,184	1,129	1,101	1,274	1,399	1,312	1,460
30-39	4,184	4,535	4,806	4,497	4,904	4,822	4,679	4,688	4,462	4,350	3,461	3,490	3,345	3,103	2,903	2,715	2,458	2,366	2,363	2,350	2,171	2,087
40-49	3,465	3,461	3,481	3,239	3,367	3,502	3,568	3,912	3,957	3,968	3,784	4,142	4,423	4,588	4,732	4,841	4,721	4,689	4,695	4,868	4,499	4,426
50-59	3,568	3,717	3,903	3,790	3,714	3,750	3,665	3,875	3,698	3,545	3,040	3,127	3,167	3,149	3,421	3,521	3,608	3,636	4,111	4,576	4,650	4,962
60 years old or more	644	731	840	840	899	1,027	1,113	1,140	1,324	1,524	1,382	1,529	1,641	1,632	1,761	1,799	1,838	2,023	2,096	2,469	2,552	2,702
total	15,735	16,217	16,584	15,319	15,670	15,718	15,349	15,850	15,579	15,443	13,233	13,815	13,998	13,834	14,190	14,210	13,885	13,977	14,706	15,818	15,382	15,815

Workers' number of workplace of industrial accidents in land cargo transportation 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	2,052	2,206	2,235	2,072	2,094	2,171	2,049	2,069	1,970	1,948	1,551	1,611	1,641	1,652	1,508	1,564	1,435	1,461	1,517	1,506	1,483	1,389
10-29	5,517	5,662	5,850	5,564	5,437	5,437	5,347	5,408	5,217	5,080	4,414	4,581	4,691	4,556	4,619	4,689	4,423	4,406	4,541	4,633	4,275	4,469

30-49	3,446	3,570	3,571	3,182	3,426	3,378	3,227	3,379	3,280	3,256	2,822	2,950	2,933	2,835	3,102	3,011	3,052	3,076	3,205	3,482	3,448	3,545
50-99	2,746	2,740	2,826	2,619	2,645	2,640	2,669	2,752	2,700	2,633	2,268	2,419	2,527	2,501	2,600	2,561	2,590	2,602	2,773	3,223	3,107	3,106
100-299	1,746	1,793	1,836	1,629	1,816	1,800	1,744	1,854	1,899	1,950	1,667	1,753	1,736	1,790	1,831	1,858	1,892	1,844	2,004	2,258	2,316	2,383
300 workers or more	228	246	266	253	252	292	313	388	513	576	511	501	470	500	530	527	493	588	666	716	753	923
total	15,735	16,217	16,584	15,319	15,670	15,718	15,349	15,850	15,579	15,443	13,233	13,815	13,998	13,834	14,190	14,210	13,885	13,977	14,706	15,818	15,382	15,815

Month of industrial accidents in land cargo transportation 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	1,219	1,189	1,432	1,223	1,230	1,249	1,136	1,340	1,115	1,231	1,078	1,099	1,148	1,142	1,159	1,165	1,142	1,160	1,223	1,428	1,146	1,214
February	1,291	1,324	1,433	1,177	1,228	1,325	1,191	1,311	1,236	1,351	1,094	1,140	1,020	1,219	1,116	1,350	1,073	1,080	1,195	1,294	1,214	1,243
March	1,388	1,509	1,602	1,313	1,430	1,486	1,482	1,485	1,457	1,448	1,234	1,313	1,353	1,264	1,245	1,331	1,218	1,231	1,324	1,370	1,307	1,339
April	1,292	1,355	1,368	1,242	1,317	1,297	1,279	1,267	1,309	1,328	1,153	1,119	1,130	1,109	1,147	1,086	1,153	1,224	1,149	1,208	1,308	1,270
May	1,171	1,229	1,280	1,253	1,258	1,116	1,108	1,258	1,287	1,288	953	976	1,030	1,050	1,083	1,053	1,049	1,050	1,118	1,135	1,217	1,163
June	1,309	1,333	1,367	1,250	1,294	1,399	1,326	1,297	1,320	1,254	1,097	1,127	1,231	1,140	1,099	1,140	1,211	1,141	1,189	1,274	1,201	1,450
July	1,430	1,367	1,410	1,438	1,391	1,386	1,418	1,350	1,294	1,472	1,245	1,269	1,252	1,155	1,316	1,318	1,310	1,250	1,248	1,502	1,501	1,398
August	1,322	1,391	1,309	1,208	1,223	1,315	1,223	1,300	1,344	1,253	1,021	1,155	1,179	1,175	1,181	1,105	1,174	1,117	1,224	1,284	1,356	1,321
September	1,410	1,453	1,362	1,201	1,350	1,251	1,252	1,280	1,294	1,237	1,042	1,127	1,185	1,094	1,234	1,124	1,183	1,170	1,211	1,404	1,292	1,304
October	1,295	1,344	1,402	1,322	1,352	1,379	1,287	1,338	1,342	1,268	1,144	1,166	1,141	1,151	1,266	1,182	1,141	1,213	1,351	1,361	1,302	1,454
November	1,255	1,374	1,289	1,309	1,290	1,288	1,202	1,326	1,249	1,128	1,050	1,109	1,117	1,162	1,128	1,103	1,121	1,129	1,183	1,241	1,227	1,232
December	1,353	1,349	1,330	1,383	1,307	1,227	1,445	1,298	1,332	1,185	1,122	1,215	1,212	1,173	1,216	1,253	1,110	1,212	1,291	1,317	1,311	1,427
total	15,735	16,217	16,584	15,319	15,670	15,718	15,349	15,850	15,579	15,443	13,233	13,815	13,998	13,834	14,190	14,210	13,885	13,977	14,706	15,818	15,382	15,815

Nagano	131	132	169		157		146	118	161	154	118	131	124	129	113	154	137	137	161	186	174	156
Gifu	230	267	242		248		242	246	207	217	187	184	188	178	196	177	202	183	198	197	201	168
Shizuoka	536	608	552		542		508	534	549	562	435	517	468	472	450	501	472	487	479	502	492	531
Aichi	1,050	1,098	1,075		1,095		968	1,038	1,007	958	768	847	874	905	913	876	904	847	959	1,024	1,056	1,078
Mie	272	276	291		265		274	321	302	279	252	228	221	245	256	256	249	246	231	250	254	269
Shiga	181	164	178		178		155	168	157	178	128	150	145	161	175	150	140	170	129	164	133	138
Kyoto	263	286	284		251		292	281	273	231	225	206	254	219	246	269	283	252	275	300	250	303
Osaka	1,607	1,517	1,656		1,516		1,438	1,501	1,416	1,404	1,172	1,254	1,194	1,223	1,169	1,141	1,210	1,154	1,242	1,390	1,342	1,364
Hyogo	712	705	683		621		622	620	652	676	541	497	549	556	594	540	577	529	619	653	592	594
Nara	93	95	95		107		127	160	156	140	147	138	133	146	157	174	127	136	129	150	140	127
Wakayama	100	125	142		121		131	118	129	138	104	104	115	106	95	101	119	119	114	132	112	107
Tottori	53	75	32		55		57	39	62	37	49	47	53	39	35	50	38	50	50	71	49	44
Shimane	73	79	78		58		61	52	57	53	55	53	38	49	45	51	53	38	55	45	46	50
Okayama	262	272	285		264		255	246	310	298	240	229	270	277	282	263	275	268	296	335	307	291
Hiroshima	498	430	452		472		423	466	444	432	369	383	394	364	423	363	373	331	384	383	399	396
Yamaguchi	188	193	190		153		154	157	128	153	121	112	122	103	118	113	95	132	100	141	120	121
Tokushima	90	108	84		102		88	95	93	95	64	74	66	77	73	69	91	79	58	88	75	78
Kagawa	167	186	199		172		168	155	189	168	131	135	144	135	144	116	130	160	160	156	157	154
Ehime	204	209	204		206		181	229	223	180	161	198	165	167	155	162	157	171	175	157	176	164
Kochi	109	119	110		91		93	86	75	75	66	70	68	66	81	77	64	76	101	85	75	85
Fukuoka	785	769	817		831		711	768	742	726	638	693	654	665	661	710	651	693	743	783	802	861
Saga	138	162	141		151		156	165	161	145	124	146	132	137	164	175	152	138	141	159	183	185
Nagasaki	139	135	118		154		137	104	121	113	105	107	125	107	106	118	104	109	78	117	129	139

Kumamoto	200	233	213		206		200	251	210	234	186	177	189	159	199	172	163	184	175	219	196	200
Oita	132	125	112		113		128	106	121	106	98	96	87	77	74	91	70	94	87	108	100	106
Miyazaki	140	117	133		141		160	131	152	136	124	120	110	110	108	139	130	126	120	138	139	135
Kagoshima	203	216	207		195		231	216	221	209	174	180	182	171	189	194	185	185	171	195	186	198
Okinawa	24	38	23		34		50	26	41	39	37	56	50	48	60	47	58	68	87	67	76	89
total	15,735	16,217	16,584		15,670		15,349	15,850	15,579	15,443	13,233	13,815	13,998	13,834	14,190	14,210	13,885	13,977	14,706	15,818	15,382	15,815

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)

Return to https://www.jisha.or.jp/english/statistics/2020em_industry.html

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Fatal accidents in land cargo transportation in Japan in 1999-2020

land cargo transportation industry Code No.0403+0501

Type of fatal accidents in land cargo transportation 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	19	27	25	15	20	21	24	17	17	16	15	12	22	8	9	18	17	6	19	14	19	18
falling to same level	1	5	1	2	4	1	0	2	3	1	4	3	2	2	1	1	0	2	1	1	1	0
crash	2	2	0	0	2	0	3	4	0	1	0	1	1	0	1	1	1	1	0	1	1	1
struck by flying or falling object	4	8	7	13	8	12	10	9	8	7	9	11	4	5	3	6	6	4	8	4	5	4

power transmission mechanism	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
woodworking machine	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
construction machine	4	7	6	4	8	2	2	1	1	1	2	0	1	3	1	1	2	0	4	1	1	1
metal manufacturing machine	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
general machine	1	1	0	2	0	0	0	0	0	0	0	0	1	0	0	0	1	1	2	0	0	0
mobile silviculture machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
crane	4	3	3	7	4	5	6	7	6	7	2	4	4	1	2	4	3	4	4	2	4	4
conveying machine	231	219	194	186	194	188	193	145	143	96	81	110	92	94	80	98	75	66	80	63	59	56
vehicle	8	14	18	12	14	10	10	11	9	12	4	7	4	3	2	6	8	3	6	8	4	5
pressure vessel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	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
electric equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power machine, tools	0	1	3	2	0	0	1	3	2	0	2	1	0	2	0	1	2	0	2	2	3	1
tools	1	3	3	4	0	4	2	3	5	2	1	1	1	6	0	2	2	2	6	1	0	1
other equipments, facilities	0	0	1	1	1	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	2	2
temporary buildings, establishments	5	9	4	2	6	5	7	4	4	7	3	2	7	2	2	2	2	1	3	3	3	3
hazards, harmful substances	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	1
materials	2	2	5	3	1	4	3	3	4	2	6	7	0	4	0	1	3	1	1	0	1	2
load	8	9	3	5	6	17	11	7	12	9	9	7	8	9	4	4	10	5	7	4	7	5
natural environment	3	2	1	2	3	2	4	3	1	0	2	4	152	2	2	2	5	0	0	5	3	1
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

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	1	0	0	0	0	0	2	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	1	0	0	0	0	0	1	2	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	2	1	0	1	1	3	0	0	0	0	0	2	1	2	0	0	1	3	3
mobile crane	3	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	2	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	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
human power hauling equipment	0	0	1	1	0	0	1	2	2	0	2	1	0	2	0	1	2	0	1	1	3	1	0
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	1	3	0	0	1	1	0	0	0	0	0	2	0	0	0	1
slinging tool	1	3	2	4	0	3	2	2	0	2	1	0	0	5	0	1	2	2	1	1	0	0	0
other tools	0	0	1	0	0	1	0	0	2	0	0	0	0	1	0	1	0	0	3	0	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	0
scaffolding	0	0	0	0	0	0	0	0	0	1	0	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	0
stairs, landing stage	2	0	0	0	2	1	0	0	0	1	1	0	1	1	0	1	0	0	1	0	1	1	0
opening	0	1	1	0	0	1	0	0	1	1	0	0	0	0	0	0	1	0	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	0
working platform, boot board	0	1	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	1	0	0
passage	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0
building, establishment	1	1	2	1	3	2	6	3	1	3	2	2	4	0	1	1	0	0	1	0	1	2	0
other temporary buildings, establishments	1	3	0	0	1	1	0	0	0	0	0	0	1	0	0	0	1	1	0	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	1	0	0	0
metal material	1	1	3	1	0	4	0	1	1	0	2	4	0	2	0	0	1	1	0	0	1	0	0
lumber, bamboo	0	0	2	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	1	0	0	0	0	0	1	1	0	0	4	1	0	1	0	0	2	0	0	0	0	0	0
load	5	8	2	5	4	15	10	7	11	8	7	5	8	9	4	4	7	5	5	4	7	4	4
machine/equipment as load	3	1	1	0	2	2	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	1	0	1	1	1	0	0	0	0	149	1	0	0	2	0	0	0	1	0	0
abnormal environment	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	1	0	0	0	0	0	0
high/cold temperature environment	0	0	0	0	0	0	2	0	1	0	1	2	1	0	1	1	2	0	0	5	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	5	8	8	6	10	9	11	15	20	9	11	4	4
unclassifiable	1	0	0	1	0	1	1	0	1	1	2	2	2	1	1	1	0	1	1	2	0	0	0
total	270	271	241	234	241	243	245	198	196	148	122	154	282	134	107	132	125	99	137	102	101	87	87

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	8	8	3	3	1	6	7	7	4	3	11	3	4	7	2	0	1	1	0	4
Ibaraki	4	5	5	5	6	10	9	3	5	3	4	2	6	7	4	7	6	1	4	4	2	1
Tochigi	7	4	7	3	10	4	12	3	5	1	1	2	3	4	2	5	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	17	16	8	7	6	8	2	8	3	8	9	8	7	5	6	5	7	6	2	8	1
Chiba	6	7	8	13	16	5	12	6	7	4	6	6	3	9	9	4	4	6	7	4	6	3
Tokyo	10	5	7	7	8	9	7	12	8	8	3	5	5	9	2	8	3	3	7	6	6	6
Kanagawa	8	10	6	9	10	11	11	10	7	4	4	6	7	4	4	3	5	2	5	2	2	5
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	4	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	3	4	1	3	2	1	2	0	2	0
Shizuoka	10	14	7	14	7	11	10	2	6	3	5	8	3	6	7	5	4	4	5	3	1	2
Aichi	25	21	17	14	21	11	13	11	5	12	15	10	11	8	10	4	9	7	7	5	5	7
Mie	1	2	6	6	3	7	4	4	1	1	1	2	0	1	2	2	1	4	1	2	3	3
Shiga	4	1	2	5	0	4	3	3	2	2	2	1	0	2	0	1	2	1	0	0	0	1
Kyoto	3	6	4	1	6	2	3	2	1	0	1	2	2	1	1	5	2	1	3	1	0	2
Osaka	21	22	18	19	14	20	15	15	17	8	11	10	6	8	8	10	7	9	11	9	11	8
Hyogo	12	19	6	8	9	10	13	11	9	7	2	7	4	4	5	3	11	2	4	7	6	3

Nara	2	5	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	4	2	3	5	3	5	2	3	2	1	3
Hiroshima	17	8	6	3	5	15	8	12	7	4	3	4	7	4	2	1	3	2	5	4	6	0
Yamaguchi	4	5	2	4	0	7	5	0	2	1	2	2	3	1	1	3	0	3	0	2	1	1
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	4	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	17	11	12	9	15	12	5	13	14	10	5	7	10	7	5	7	9	3	8	9	6	7
Saga	5	1	3	5	5	0	2	5	1	1	0	2	0	1	0	1	1	2	2	0	1	3
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	3	3	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	2	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	3	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	270	271	241	234	241	243	245	198	196	148	122	154	282	134	107	132	125	99	137	102	101	87

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

Return to https://www.jisha.or.jp/english/statistics/2020em_industry.html

