

Fatal and non-fatal accidents in road cargo transportation service in Japan in 1999-2022

road cargo transportation service industry Code No.0403

Type of accidents in road cargo transportation service in 1999-2022

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	4,149	4,336	4,536	4,100	4,228	4,247	4,189	4,190	4,213	4,152	3,619	3,662	3,627	3,645	3,806	3,878	3,784	3,731	3,945	4,205	4,063	4,113	4,255	4,061	96,734
falling to same level	1,395	1,525	1,675	1,488	1,560	1,624	1,632	1,755	1,700	1,819	1,570	1,711	1,775	1,773	1,853	1,919	1,823	1,808	1,970	2,319	2,121	2,255	2,429	2,545	44,044
crash	1,121	1,119	1,101	1,002	1,092	1,032	1,075	1,088	1,067	968	897	969	850	941	966	928	930	988	1,014	1,043	1,021	1,039	1,047	1,074	24,372
struck by flying or falling object	1,124	1,066	1,113	1,008	958	1,000	913	979	848	845	714	686	730	722	729	717	658	688	664	681	611	612	614	686	19,366
collapse	523	562	540	491	546	538	481	495	510	499	429	462	417	432	444	373	394	368	383	423	428	382	397	408	10,925
crashed by	746	741	722	774	686	763	731	823	845	777	577	619	650	645	626	664	632	657	685	697	729	663	680	746	16,878
caught in/between	1,945	2,089	2,018	1,939	1,922	1,927	1,756	1,866	1,801	1,776	1,475	1,583	1,511	1,494	1,496	1,514	1,425	1,426	1,430	1,485	1,463	1,375	1,383	1,514	39,613
cut	196	228	240	193	205	176	182	184	176	176	172	169	159	145	185	148	127	156	137	157	145	143	141	130	4,070
injury to the sole of the foot	18	30	30	16	26	28	21	28	32	16	14	13	17	18	21	24	24	20	19	25	21	21	17	18	517
drown	1			2	2	1	1	2		1	1	1	121	1			2				3				139
contact to high/low-temperature	57	65	78	75	61	62	71	58	64	75	48	99	92	89	95	77	92	72	101	198	134	158	88	154	2,163
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	17	22	466
electric shock	2	4	2	3	3		3	1	1	1	3	2	2	1	1	3	2	1	1		1	2	4	2	45
explosion	5	5	2	2	7	5	4	5	5	4	2	4	3		1	1	2		4	2	5	2	4	1	75
burst	6	10	16	4	10	12	9	9	11	4	4	6	4	5	4	8	3	6	4	2	6	6	5	7	161

fire	3	10	4	2	4	5	4	4	4	2	3	1		2	2	5	4		1	2	1	1	2	3	69
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	809	779	26,775
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	8	11	200
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	2,562	2,530	45,280
others	41	55	45	45	50	72	52	49	51	61	67	58	93	59	57	42	73	61	71	72	74	209	399	100	1,956
unclassifiable	23	15	30	27	30	17	26	27	29	27	14	13	25	31	22	26	22	21	25	21	19	11	8	16	525
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	14,869	14,807	334,373

Causal agents (large) of fatal and non-fatal accidents in road cargo transportation service 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	179	167	174	172	169	154	115	141	154	139	129	108	115	111	128	104	105	110	107	113	93	100	109	112	3,108
crane, conveying machine	7,586	7,863	7,851	7,353	7,493	7,477	7,233	7,235	7,047	6,690	5,753	6,038	6,114	6,022	6,240	6,183	6,082	5,894	6,119	6,339	6,104	6,003	6,276	6,153	159,148
other equipment	1,418	1,441	1,540	1,509	1,500	1,560	1,520	1,728	1,804	1,930	1,561	1,643	1,611	1,705	1,716	1,724	1,721	1,859	1,859	2,014	2,090	2,137	2,163	2,341	42,094
temporary buildings, establishments	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	2,664	2,664	48,828
substance, material	1,034	1,012	968	873	866	824	790	810	788	717	583	570	586	572	610	595	524	484	541	539	495	478	445	524	16,228
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	1,579	1,633	41,792
environment	173	193	273	187	191	212	220	243	181	235	182	272	429	281	321	357	261	304	334	512	319	351	369	444	6,844
others	613	593	572	584	546	602	666	690	588	578	592	620	620	613	589	603	638	582	691	744	831	976	1,264	936	16,331
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	14,869	14,807	334,373

Causal agents (middle) of fatal and non-fatal accidents in road cargo transportation service 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	3	2	2	2		1		1	1			1		1	3	1	2	1	2	2	3	1	2		31
power transmission mechanism	9	6	9	8	4	4	6	8	7	4	8	7	8	5	7	7	10	7	1	3	7	3	7	12	157
woodworking machine	30	28	25	28	21	22	15	15	19	26	16	16	15	14	18	10	10	15	12	7	6	12	9	4	393
construction machine	73	53	68	66	72	50	36	54	59	45	49	43	46	45	39	45	36	49	42	44	29	39	34	43	1,159
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	23	13	323
general machine	51	59	50	59	48	60	47	53	59	50	42	30	28	36	46	33	29	25	38	45	40	34	32	33	1,027
mobile silviculture machine																	1	2	2	2	2		2	7	18
crane	353	317	311	305	331	321	309	281	265	243	181	207	186	173	208	211	193	201	183	192	196	169	191	171	5,698
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	5,692	5,610	144,118
vehicle	400	350	352	373	356	405	401	446	506	461	388	357	376	397	358	397	352	369	405	412	385	321	393	372	9,332
pressure vessel	14	15	22	14	14	12	9	7	7	3	10	10	5	8	7	4	8	6	6	5	6	3	6	3	204
chemical facilities	1		3	2		3	1	5	1			3	2	1		2	3	2		4		2	8	3	46
welding equipment	3	3	3	4	1	3	3		7	3	2	1	1	2		2	3		3	5	1	1	2	3	56
kiln, caldron		1		2	1		1		1		1		1	2	1		1				1			2	15
electric equipment	11	13	5	5	9	2	3	7	5	4	4	8	6	9	3	6	4	9	5	7	8	5	14	12	164

machine							2	1	1				1	1	1									7	
wood planer machine										2		1								1				4	
hollow chisel mortiser, wood borer					1					1			1							1				4	
chamfering machine, router, woodworking milling machine																									
chain saw			4			3	4	3	2	3	3	4	1	3		2	3	1	3	1	3	1		44	
other woodworking machines			3		4		2	3	5	4	2	2	2	2	4	3	1	3	2	2			7	1	52
leveling, transporting or loading machine			17		18		12	15	25	11	18	8	7	15	16	12	13	14	17	12	12	10	9	15	276
excavating machine			34		28		19	20	14	18	17	20	25	17	13	20	10	16	14	20	9	14	15	16	359
foundation work machine			1		2				1	1		2								1	1			9	
hardening machine			8		8			3	4	2	1	1	2	2	2	1	2	2	1		1			1	41
demolition machine					2		1			1	2	2		1	2	1	3	4	4	1	3		2	2	31
vehicle for high lift work					2			1	2	3	2	4	2	1	1	3	3	6	2	3	1	6	5	3	50
other construction machines			8		12		4	15	13	9	9	6	10	9	5	8	5	7	4	8	2	8	3	6	151
lathe								1		1			1												3
drill press, milling machine			2		3		1	1	1	2		2				1			2	2	1	1	2	1	22

grinding machine, buffing machine		9	9	3	2	4	4	4	5	10	7	7	3	6	7	5	5	1	6	15	7	119
power press		2	1	3			1			1		1	2	2	1		1			2	1	18
forging pressure hammer			1																			1
shearing machine		1	1					1	1	2		1			1	1	1			1		11
other metal manufacturing machines		6	9	4	6	4	6	9	3	4	3	6	2	9	2	2	1	4	4	3	4	91
centrifugal machine						1																1
mixer, grinder		1	5	1	3	1	3		2	1		2		1		2	6	2	2	1		33
roll machine (except printingroll machine)		1	3		3	8	3	4	1	1	1	1	2		1	1		1	2	1		34
injection molding machine								1			1											2
food manufacturing machine		2		1		2	3	1				1				1	2		1		2	16
printing machine		2			2	2	1											1	1	1		10
industrial robot										1				1						1		3
other general power machines		44	40	45	45	45	40	36	27	25	34	42	31	27	24	34	37	36	28	28	31	699
felling machine															1	1	1	2		1	7	13
mobile logging machine														1		1	1			1		4
skyline yarding machine																						
other mobile															1							1

other vehicles			12		12		18	13	14	20	8	15	12	21	11	29	16	13	9	9	9	7	9	9	266
boiler											1														1
pressure vessel			4					1				1	1		1	1	1	1	1				1	1	13
other pressure vessels			18		14		9	6	7	3	9	10	4	7	7	3	7	5	5	5	6	3	5	2	135
chemical facilities			3				1	5	1			3	2	1		2	3	2		4		2	8	3	40
gas welding equipment			1		1		3		4	2	1	1	1			1	2		2	3	1		1	1	25
arc welding equipment			1						3		1			1		1	1			2				2	12
other welding equipment			1							1				1					1			1	1		6
kiln, caldron					1		1		1		1			2	1		1				1			2	11
industrial dryer																									
other kiln, caldron													1												1
transmission					3		2	1	1	1	2	2	3	7	2	3	1	4	3	3	4	3	7	9	61
electric power facilities					1			1			1	2	1	1		1	2						2	2	14
other electrical equipment			5		5		1	5	4	3	1	4	2	1	1	2	1	5	2	4	4	2	5	1	58
human power cranes			6		7		11	5	8	11	2	4	2	5	7	2	5	8	5	13	95	138	191	331	856
human power hauling equipment			465		514		513	594	694	770	593	692	645	705	723	738	724	881	856	913	856	855	797	793	14,321
human power machine			29		17		17	17	8	14	7	10	8	17	14	10	12	10	9	9	12	8	13	9	250
hand tool			95		80		85	82	72	81	82	65	92	85	81	71	55	70	61	57	72	77	73	61	1,497
ladder			171		175		201	189	213	230	201	224	209	179	236	215	233	200	237	254	272	317	297	321	4,574

slinging tool			59		67		76	65	54	58	37	42	34	53	45	40	38	29	36	29	27	32	32	27	880
other tools			551		522		491	599	599	609	481	435	477	494	473	520	515	529	519	560	599	542	580	597	10,692
other equipment, facilities			131		93		109	158	135	147	141	149	129	145	126	114	120	115	122	158	141	157	150	179	2,719
scaffolding			17		16		8	13	16	10	15	4	11	10	3	16	16	5	7	7	11	13	9	13	220
timbering					2		1	1	1			1			1				2					1	10
stairs, landing stage			301		304		282	304	344	371	356	342	333	312	347	400	368	395	461	489	471	521	532	522	7,755
opening			27		25		23	32	17	22	30	28	29	26	33	23	18	27	35	23	36	25	30	28	537
roof, beam, haze, crossbeam, principal rafter			16		10		7	16	16	11	14	11	17	19	9	7	5	8	9	8	12	9	5	4	213
working platform, boot board			304		258		272	278	289	281	261	280	246	237	268	269	255	258	254	277	265	265	291	259	5,367
passage			660		594		684	725	635	733	627	707	698	750	697	768	749	789	841	1,085	990	1,054	1,171	1,199	16,156
building, establishment			393		386		340	358	359	379	335	331	345	331	367	341	297	346	365	421	336	383	381	370	7,164
other temporary buildings, establishments			173		219		215	190	210	196	187	235	184	197	180	180	215	224	221	243	250	269	245	268	4,301
explosive substance			1		1		1	4	1	2		2	1	1	2		2				2	1			21
inflammable substance			5		7		5	4	6	3	3	2	3	2	4	5	5	1	3	3	5	5	5	7	83
inflammable gas			1		3		3	3	1	2	1	1	5	3	1		2	1	3	3	3	3		3	42
harmful substance			13		13		12	9	10	18	10	7	12	6	2	3	4	5	5	6	4	15	6	7	167
radiation																									
other hazards, harmful substances			13		7		14	13	7	21	8	8	7	8	13	12	6	10	13	5	10	17	10	16	218
metal material			491		411		384	382	364	331	264	249	234	249	288	266	233	231	253	256	227	186	189	240	5,728

lumber, bamboo			267		261		238	250	257	206	194	195	212	193	194	194	168	157	170	164	159	168	138	160	3,945
stone, sand, substance			44		30		26	21	25	21	15	13	14	14	17	25	16	9	16	19	17	14	12	15	383
other materials			133		133		107	124	117	113	88	93	98	96	89	90	88	70	78	83	68	69	85	76	1,898
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	1,507	1,563	31,797
machine/equipment as load			124		102		102	123	119	127	103	112	91	93	97	91	78	80	72	68	72	71	72	70	1,867
natural ground, rock			37		25		19	14	24	31	18	17	20	11	19	16	20	19	14	27	18	19	12	13	393
standing tree			6		7		4	4	8	5	11	8	13	7	5	2	6	1	8	3	7	6	10	5	126
water			8		10		8	10	6	7	7	4	157	11	7	10	10	11	6	9	8	8	6	3	306
abnormal environment			2		4		1				3		2	9	4	2	1			1	5	2	2		38
high/cold temperature environment			47		30		30	38	28	48	24	85	58	50	73	64	73	51	84	178	106	135	71	140	1,413
other environments			173		115		158	177	115	144	119	158	179	193	213	263	151	222	222	294	175	181	268	283	3,803
other causal agent			125		105		113	110	98	103	79	58	83	82	100	86	111	84	106	116	98	224	398	130	2,409
no causal agent			418		409		527	549	449	440	488	549	513	494	463	489	506	484	562	610	717	741	852	795	11,055
unclassifiable			29		32		26	31	41	35	25	13	24	37	26	28	21	14	23	18	16	11	14	11	475
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	14,869	14,807	334,373

Workers age of fatal and non-fatal accidents in road cargo transportation service 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	125	150	155	127	102	120	118	128	125	139	86	107	92	97	118	131	110	134	142	136	167	147	183	143	3,082
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	1,458	1,315	40,909

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	1,194	1,236	27,714
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	1,250	1,297	29,966
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	1,305	1,232	27,582
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	1,254	1,258	27,755
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	1,155	1,164	28,295
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	1,146	1,105	26,691
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	1,371	1,319	28,615
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	14,869	14,807	334,373

Prefecture of fatal and non-fatal accidents in road cargo transportation service 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	916	1,008	974		907		868	968	826	744	721	720	745	740	812	805	706	732	777	795	725	775	803	802	17,869
Aomori	120	118	146		117		105	84	136	120	102	99	107	127	119	110	108	111	114	128	117	125	165	115	2,593
Iwate	156	133	172		122		132	145	128	119	86	102	139	123	138	149	142	121	128	142	132	98	123	145	2,875
Miyagi	346	334	308		318		314	344	270	301	258	263	386	285	276	331	278	292	313	332	338	305	373	319	6,884
Akita	104	105	97		74		63	80	88	73	72	88	81	68	66	83	68	79	71	110	81	84	95	94	1,824
Yamagata	103	106	89		84		91	124	104	113	90	79	106	91	86	89	96	73	90	107	88	84	127	102	2,122
Fukushima	236	258	233		217		214	211	179	209	185	196	191	222	225	212	170	195	183	196	183	208	205	211	4,539
Ibaraki	355	389	400		371		372	387	362	363	298	351	404	327	371	352	346	332	364	362	333	365	392	374	7,970
Tochigi	241	225	244		223		211	192	221	219	208	197	164	201	189	197	180	175	189	222	201	228	245	238	4,610
Gunma	322	333	364		317		315	321	317	279	241	262	276	253	258	283	255	295	274	292	289	299	303	304	6,452
Saitama	711	722	851		838		858	922	951	921	853	849	867	886	860	890	949	931	926	1,030	1,042	1,064	1,129	1,200	20,250
Chiba	539	620	714		579		636	614	617	685	602	621	624	612	635	647	635	633	634	681	674	792	766	771	14,331
Tokyo	1,085	1,083	1,162		1,090		1,039	1,063	993	1,077	933	958	900	943	951	858	836	901	917	949	937	855	970	946	21,446
Kanagawa	716	829	768		693		707	707	789	827	660	703	663	687	672	735	709	694	729	784	749	782	812	895	16,310
Niigata	245	260	265		215		222	230	208	202	197	237	233	216	230	219	190	219	219	280	222	223	320	273	5,125

Nagasaki	135	125	113		150		130	100	120	106	102	106	121	102	102	112	97	105	78	114	128	137	117	125	2,525
Kumamoto	196	226	204		201		194	244	207	228	182	171	180	157	193	168	158	181	172	214	190	197	157	188	4,208
Oita	128	122	108		111		124	104	118	103	96	93	87	77	73	90	69	93	84	107	100	105	112	108	2,212
Miyazaki	133	113	130		122		154	120	144	120	118	115	107	106	104	134	127	120	114	133	135	127	147	146	2,769
Kagoshima	199	210	202		185		226	209	219	203	163	174	176	168	188	190	177	175	161	187	178	194	193	186	4,163
Okinawa	19	38	21		30		46	23	37	35	35	51	48	44	58	43	56	62	81	62	72	85	81	66	1,093
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	14,771	13,094	13,073	12,720	12,747	13,308	14,376	13,821	14,153	14,869	14,807	334,373

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more.

Data of 2022 year do not include Covid-19 cases. Data of 2020 & 2021 year include Covid-19 cases. Fatal and non-fatal data are same situation.

Data of 2011 year include fatal and non-fatal accidents caused by Great East Japan Earthquake in 2011.

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

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Fatal accidents in road cargo transportation service in Japan in 1999-2022

road cargo transportation service industry Code No.0403

Type of fatal accidents in road cargo transportation service in 1999-2022

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	16	24	23	12	19	20	21	14	15	13	14	12	18	7	9	17	17	5	18	12	17	16	12	22	373
falling to same level	1	3	1	1	4	1		2	3	1	3	2	2	2	1	1		2	1	1	1		3	1	37
crash	1	2			2		3	3		1		1			1	1	1	1		1	1				19
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	5	6	154
collapse	6	6	1	5	4	13	10	7	9	3	4	6	4	9	3	5	7	4	6	2	4	3	2	4	127
crashed by	8	3	3	5	4	5	2	12	7	6	4	4	4	8	5	12	3	2	5	3	5	6	5	2	123

caught in/between	16	20	18	18	20	18	13	11	16	18	4	9	15	15	9	11	10	6	16	10	7	14	10	9	313
cut										1															1
injury to the sole of the foot																									
drown	1			1	2	1	1	2			1		121	1			2				1				134
contact to high/low-temperature							2				1	2			1		2			5	2		1	1	17
contact to harmful substance				1				1				1	1	1			1					1			7
electric shock							1																		1
explosion						1					1														2
burst	1						2					1					1					1	1		7
fire								1		1															2
traffic accident (public road)	204	195	178	166	169	159	169	119	120	81	65	88	65	74	62	62	59	57	57	47	40	28	37	33	2,334
traffic accident (others)	1		1								1					1						1			5
reaction to motion/improper motion																									
others	1	2	1	2	4	5	4	7	8	9	7	9	36	7	11	9	10	12	19	10	12	5	16	6	212
unclassifiable				1					1	1	2		1	1	1	1		1	1	1					12
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78	92	84	3,880

Causal agents (large) of fatal accidents in road cargo transportation service 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	4	8	6	6	7	2	2	1	1	3	2		1	2	1	1	3		5	1	1	1	1	5	64
crane, conveying machine	236	232	210	198	207	198	204	157	152	113	85	115	96	96	84	105	83	70	86	71	65	56	59	61	3,039
other equipment	1	3	6	6	1	4	3	5	6	2	4	2	1	8	1	3	4	2	8	3	5	4	5	5	92
temporary buildings, establishments	5	6	4	2	6	5	6	3	3	5	2	2	5	2	1	2	2	1	3	3	2	3	2	4	79
substance, material	1	2	4	3	1	3	3	5	4	2	6	7		4		1	3	1	1	1	1	3	2		58
load	6	9	2	4	6	15	10	6	11	7	7	6	8	9	4	4	8	4	7	3	6	5	5	2	154

environment	3	2	1	1	3	2	4	3			2	3	148	2	2	1	5			3	3	1	3	1	193
others	3			4	4	4	6	7	9	10	8	10	12	7	13	10	10	15	20	11	12	5	15	6	201
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78	92	84	3,880

Causal agents (middle) of fatal accidents in road cargo transportation service 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																									
power transmission mechanism										1															1
woodworking machine										1															1
construction machine	3	7	6	4	7	2	2	1	1	1	2		1	2	1	1	2		4	1	1	1		4	54
metal manufacturing machine																									
general machine	1	1		2													1		1				1		7
mobile silviculture machine																								1	1
crane	3	3	3	7	3	5	6	6	6	7	2	4	4	1	2	4	3	3	4	2	3	3	3	3	90
conveying machine	225	215	189	180	190	184	188	140	140	95	80	104	88	92	80	96	72	64	76	61	58	50	53	54	2,774
vehicle	8	14	18	11	14	9	10	11	6	11	3	7	4	3	2	5	8	3	6	8	4	3	3	4	175
pressure vessel															1		1								2
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools		1	2	1			1	3	2		2	1		2		1	2		1	2	3	1	1	1	27
tools	1	2	3	4		4	2	2	4	2	1	1	1	5		2	1	2	6	1		1	3	4	52
other equipments, facilities			1	1	1						1			1					1		2	2	1		11
temporary buildings, establishments	5	6	4	2	6	5	6	3	3	5	2	2	5	2	1	2	2	1	3	3	2	3	2	4	79
hazards, harmful substances					1		2													1		1			5

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	41	38	42	37	38	40	49	39	40	24	18	25	49	29	14	16	23	20	23	21	18	15	19	17	695
10-29	108	106	98	99	102	90	90	64	69	52	46	59	113	50	37	60	53	32	53	38	36	31	37	33	1,556
30-49	62	59	49	45	46	56	47	41	37	28	23	23	56	28	35	21	23	21	27	19	17	16	18	16	813
50-99	29	37	30	28	32	31	33	24	27	25	15	22	37	18	16	21	8	17	15	16	17	10	9	12	529
100-299	19	20	14	15	17	15	18	17	13	12	13	13	14	4	4	7	10	3	10	2	7	6	8	5	266
300 workers or more		2				1	1	2		1	1	3	2	1		2	1		2				1	1	21
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78	92	84	3,880

Month of fatal accidents in road cargo transportation service 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	20	20	15	18	20	14	12	10	13	8	12	15	8	10	9	14	8	7	15	4	8	7	13	9	289
February	20	20	21	14	21	15	14	13	16	11	10	12	8	14	9	11	9	8	13	7	9	10	9	11	305
March	23	27	26	17	23	15	24	16	18	8	8	13	161	15	9	20	10	4	12	12	4	6	8	7	486
April	11	15	23	18	15	23	17	17	15	13	10	10	12	12	7	7	12	11	11	7	8	5	6	5	290
May	19	17	20	21	12	14	9	17	13	18	9	9	8	10	8	11	5	12	5	9	5	5	12	5	273
June	25	20	17	27	17	27	26	15	16	17	8	7	13	9	9	9	9	7	10	5	9	8	5	3	318
July	22	29	22	16	15	18	28	18	20	15	7	24	10	15	10	5	9	8	6	10	13	6	8	8	342
August	21	22	23	10	17	22	26	13	20	8	12	16	5	9	9	10	6	3	14	8	7	5	11	9	306
September	17	29	19	18	20	23	24	17	15	5	9	7	11	12	4	11	12	6	6	7	12	7	4	9	304
October	24	22	14	24	22	24	15	13	13	14	10	12	13	8	12	10	17	9	11	12	11	3	6	6	325
November	27	21	15	18	31	16	12	17	10	8	9	10	10	7	12	9	12	8	8	9	5	6	7	5	292
December	30	20	18	23	22	22	31	21	17	17	12	10	12	9	8	10	9	10	19	6	4	10	3	7	350
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78	92	84	3,880

Prefecture of fatal accidents in road cargo transportation service 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	13	20	16	19	15	23	15	10	14	12	6	15	14	10	7	6	10	13	10	11	6	4	8	5	282
Aomori	6	2	2	2	7	1	2		1	3	3	3	3	2	1		1	2	4	1	1	1		1	49
Iwate	6	3	3	5		3	8	3	6	2		1	26		2	4	3	1	3	1	1		1	1	83
Miyagi	6	11	8	1	7	7	10	2	7	2	3	6	115	1	1	5	4		2	4	2	2	3	2	211
Akita	2	2	2			1	2	2	2			1	2	1	1						1				19
Yamagata	1	4	2	4	5	3	3	1	2	2	2	1		1		4	1	1							37
Fukushima	5	7	6	8	3	3	1	6	7	7	4	3	11	3	4	6	2		1	1		4		1	93
Ibaraki	3	5	5	5	6	9	9	3	5	3	3	2	5	7	4	6	6	1	3	4	2	1	1	4	102
Tochigi	7	4	6	3	10	4	12	3	5		1	2	3	4	2	4	1	2	5	3			6	5	92
Gunma	3	6	3	3	5	8	6	8	7	4	3	2	2	3		3		2	3	1	5	2	1		80
Saitama	11	16	16	6	7	6	8	2	7	2	8	8	8	6	5	5	5	5	6	2	6		9	5	159
Chiba	5	7	8	10	15	5	9	4	7	4	3	6	3	8	9	4	2	5	5	3	6	3	2	3	136
Tokyo	8	5	7	6	8	9	7	11	7	7	3	5	4	8	2	8	3	3	7	6	4	5	4	3	140
Kanagawa	8	10	6	8	10	9	9	8	7	4	4	6	4	4	3	3	4	2	5	2	2	4	2	3	127
Niigata	6	5	6	4	3	4	2	2	3	3	1	2	2	1	2	3	2	3	2	1	2	3	1	2	65
Toyama	2	4	2		4	3	3	5	1	5	1	3	1	1	4	3		2	3	2	1		2	3	55
Ishikawa	6	1		2	5	2	7		3	1	3		6		1	1	2	1		2		1		2	46
Fukui	5	2	1	2	5	1	3	7	3	2	3	1			1	3	1	2			1	2	2	2	49
Yamanashi	2	2		1		1		1	1	1	1	3		1	1	1	2		2				1	1	22
Nagano	7	1	4	6		3	3	1	5		1		2			2	1	1	3	1			4	2	47
Gifu	4	4	8	1	4	3	8	6	1	3	3	2	2	4	1	3	2	1	2		2		2	1	67
Shizuoka	10	14	7	13	7	10	10	2	6	3	5	8	3	6	7	5	4	4	5	2	1	2	1	2	137
Aichi	23	19	17	14	21	11	13	11	5	12	15	10	11	8	10	4	9	6	5	4	4	6	1	4	243
Mie	1	2	5	6	3	7	4	4	1	1	1	1		1	2	2	1	4	1	2	3	3	5		60
Shiga	4	1	2	5		3	3	3	2	2	2	1		2		1	2	1				1		2	37

Kyoto	3	6	4	1	6	1	3	2	1		1	2	2	1	1	5	2	1	3	1		2	2		50
Osaka	21	20	18	19	11	20	14	14	16	7	11	9	6	8	8	10	7	8	11	7	10	8	10	5	278
Hyogo	12	18	4	8	8	9	13	9	8	7	2	6	4	4	5	3	11	2	4	7	6	3	5	1	159
Nara	2	4	2	2	2	3	4	5	2			2	1	3	2	2	1	2	2	2			3	1	47
Wakayama	1	4	4	3	4	2				1		2	1	1			3	1	2		1		1	1	32
Tottori		1	1	1	4	2	3	1		1			1	1			1		1		1				19
Shimane		2	4	2	1	1	2	1		2	3	1	1		1						2				23
Okayama	7	4	6	8	4	7	5	7	4		3	3	2	3	5	3	5	2	3	2	1	3		1	88
Hiroshima	14	8	6	3	5	15	8	12	7	4	2	4	6	4	2	1	3	2	4	4	6			5	125
Yamaguchi	3	5	2	3		7	5		2	1	2	2	3		1	3		3		2	1		2	2	49
Tokushima		3	2	1	1	1	3	1		1	1						2	1		1	1	1	1	3	24
Kagawa	2	3	5	2	4		1		2	2	2	1	1	2		2			3	3	3		3		41
Ehime	5	2	2	3	2	1	1	1	3	4		2		2		3	1		2						34
Kochi	1	2	3	3	1	1		2	1	1	1	1		1	2		1			1	1	2		1	26
Fukuoka	16	10	12	8	14	11	5	13	14	10	5	6	10	7	5	6	7	2	7	9	6	6	2	3	194
Saga	5	1	3	5	5		2	5	1	1		2		1		1	1	2	2		1	2			40
Nagasaki	2		5		1	4	2	2	2	4	1	1	1	1	1		1	2	2	1	1			2	36
Kumamoto	3	2	1	3	5	4	4	1	2	7	1	2	1	4	3		1		2	1	2				49
Oita	2	1	2	5		4	2	2	1	1	1	1	1								1	2	3	1	30
Miyazaki	1	3	4	2	4		3	1	1			3		3			1	1	3	2		3	3	2	40
Kagoshima	4	5	1	8	3	1	1	3	4	3	1	3	3	2		2	2	2	2		1	2	1	2	56
Okinawa	1	1																							2
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78	92	84	3,880

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