

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

transportation service industry Code No.04

Type of accidents in 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	4,411	4,572	4,768	4,380	4,519	4,542	4,451	4,482	4,493	4,435	3,874	3,963	3,859	3,885	4,050	4,128	4,029	4,014	4,207	4,524	4,359	4,376	4,533	4,333	103,187
falling to same level	1,895	1,999	2,221	1,934	2,153	2,210	2,270	2,330	2,245	2,402	2,182	2,345	2,460	2,522	2,587	2,694	2,503	2,466	2,674	3,185	2,839	2,903	3,185	3,385	59,589
crash	1,225	1,234	1,239	1,121	1,214	1,160	1,193	1,254	1,221	1,084	1,023	1,114	966	1,059	1,102	1,076	1,062	1,166	1,163	1,213	1,171	1,190	1,208	1,219	27,677
struck by flying or falling object	1,170	1,108	1,170	1,046	995	1,052	951	1,020	889	876	761	718	778	766	756	749	701	730	692	721	649	640	642	714	20,294
collapse	531	572	548	497	556	547	486	504	523	506	437	467	419	443	448	384	403	374	388	426	440	386	398	414	11,097
crashed by	825	832	804	848	766	863	834	904	930	869	645	717	726	741	716	784	775	753	780	764	845	745	755	833	19,054
caught in/between	2,089	2,223	2,160	2,057	2,038	2,057	1,888	2,027	1,944	1,908	1,611	1,712	1,635	1,631	1,656	1,634	1,550	1,556	1,577	1,620	1,605	1,501	1,502	1,641	42,822
cut	224	256	263	209	236	206	214	211	199	209	197	191	185	167	210	178	147	172	158	175	162	157	160	141	4,627
injury to the sole of the foot	20	33	32	17	26	31	23	30	32	19	15	14	23	19	22	24	25	21	21	26	22	23	17	21	556
drown	3	1		2	2	1	2	2		1	1	1	140	2	2	1	4	1	2	2	3		1		174
contact to high/low-temperature	75	102	100	97	85	99	95	81	99	97	63	129	123	114	120	99	115	100	139	235	163	181	108	179	2,798
contact to harmful substance	19	36	25	30	27	25	28	25	21	33	23	22	27	20	35	24	28	21	35	32	20	34	20	33	643
electric shock	5	10	4	7	6	1	7	4	6	5	4	4	4	2	5	5	4	4	1	3	1	4	5	7	108
explosion	6	7	2	4	7	5	4	5	5	6	2	4	4		2	1	3		6	2	6	2	5	1	89
burst	9	12	17	7	11	14	13	9	12	7	6	6	5	6	4	10	3	6	4	2	7	6	5	8	189

fire	4	11	5	3	4	6	4	5	5	2	3	2	3	2	2	5	5		1	3	1	2	3	4	85
traffic accident (public road)	2,842	2,807	2,744	2,467	2,491	2,439	2,420	2,314	2,214	2,140	1,953	2,043	2,120	2,020	2,166	2,217	2,183	2,139	2,012	1,917	1,741	1,507	1,515	1,525	51,936
traffic accident (others)	28	28	29	65	50	76	78	63	101	48	24	29	15	18	16	20	25	11	19	18	21	16	12	20	830
reaction to motion/improper motion	2,110	2,023	2,070	2,026	2,079	2,077	2,041	2,185	2,221	2,358	2,121	2,119	2,259	2,233	2,191	2,200	2,184	2,329	2,516	2,713	2,692	2,800	2,987	3,045	55,579
others	138	172	152	174	157	170	182	203	225	273	255	218	251	189	151	132	181	165	183	160	193	361	782	182	5,249
unclassifiable	82	82	86	117	118	108	75	82	79	76	53	43	46	69	62	56	46	59	44	42	28	25	24	30	1,532
total	17,711	18,120	18,439	17,108	17,540	17,689	17,259	17,740	17,464	17,354	15,253	15,861	16,048	15,908	16,303	16,421	15,976	16,087	16,622	17,783	16,968	16,859	17,867	17,735	408,115

Causal agents (large) of fatal and non-fatal accidents in 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	208	188	202	189	189	178	145	162	175	161	153	124	143	128	149	123	130	122	127	139	110	113	123	131	3,612
crane, conveying machine	9,189	9,447	9,408	8,815	8,970	8,988	8,804	8,776	8,580	8,210	7,258	7,585	7,620	7,527	7,830	7,812	7,764	7,580	7,699	7,905	7,551	7,149	7,386	7,322	195,175
other equipment	1,583	1,629	1,704	1,692	1,668	1,762	1,724	1,932	2,010	2,150	1,763	1,853	1,813	1,904	1,947	1,998	1,940	2,088	2,089	2,298	2,332	2,369	2,413	2,599	47,260
temporary buildings, establishments	2,190	2,337	2,450	2,199	2,454	2,584	2,470	2,563	2,516	2,659	2,455	2,603	2,512	2,601	2,585	2,716	2,606	2,775	2,939	3,372	3,142	3,219	3,420	3,449	64,816
substance, material	1,066	1,064	1,010	898	902	860	819	858	828	755	613	607	628	606	634	632	561	502	564	561	521	502	472	546	17,009
load	2,197	2,233	2,333	2,045	2,107	1,982	1,902	2,001	2,102	2,038	1,715	1,675	1,694	1,682	1,679	1,612	1,565	1,597	1,603	1,691	1,642	1,641	1,631	1,747	44,114
environment	287	291	406	285	310	343	352	384	314	362	290	404	635	466	521	578	407	494	522	749	464	476	508	645	10,493
others	991	931	926	985	940	992	1,043	1,064	939	1,019	1,006	1,010	1,003	994	958	950	1,003	929	1,079	1,068	1,206	1,390	1,914	1,296	25,636
total	17,711	18,120	18,439	17,108	17,540	17,689	17,259	17,740	17,464	17,354	15,253	15,861	16,048	15,908	16,303	16,421	15,976	16,087	16,622	17,783	16,968	16,859	17,867	17,735	408,115

Causal agents (middle) of fatal and non-fatal accidents in 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	4	4	3	3		4	1	2	2	2		1	2	2	4	3	5	1	2	4	3	1	2	1	56
power transmission mechanism	12	9	16	12	10	6	12	10	10	9	11	11	14	6	13	9	16	8	4	10	12	4	9	17	250
woodworking machine	32	29	26	28	24	24	17	15	21	30	17	18	23	15	20	12	12	15	14	8	7	15	12	4	438
construction machine	76	58	69	67	74	53	42	59	65	46	53	43	49	48	44	48	39	53	45	47	32	41	38	47	1,236
metal manufacturing machine	19	23	27	11	26	22	13	13	10	17	18	13	23	12	15	12	20	12	14	11	8	13	26	17	395
general machine	65	65	61	68	55	69	60	63	67	57	54	38	32	45	53	39	37	31	46	57	46	39	34	38	1,219
mobile silviculture machine																	1	2	2	2	2		2	7	18
crane	365	324	316	313	343	330	313	286	268	250	189	212	193	179	221	218	199	207	188	201	204	182	194	178	5,873
conveying machine	6,932	7,304	7,286	6,782	6,904	6,854	6,612	6,599	6,363	6,071	5,267	5,555	5,622	5,540	5,746	5,658	5,624	5,400	5,612	5,814	5,607	5,571	5,766	5,682	146,171
vehicle	1,892	1,819	1,806	1,720	1,723	1,804	1,879	1,891	1,949	1,889	1,802	1,818	1,805	1,808	1,863	1,936	1,941	1,973	1,899	1,890	1,740	1,396	1,426	1,462	43,131
pressure vessel	14	15	22	16	14	13	10	7	7	4	10	10	5	9	7	6	8	6	6	5	7	4	6	4	215
chemical facilities	1		3	2		3	1	5	1	1		4	2	1	1	3	3	2		4		2	8	3	50
welding equipment	5	7	3	6	1	3	5		7	4	2	2	3	3		3	4		4	5	3	1	2	4	77
kiln, caldron		2	1	2	1		2		1		1		1	2	2	1	3		2		1		1	2	25
electric equipment	16	20	7	11	11	5	11	10	10	10	5	11	10	12	7	11	6	13	7	16	10	8	16	18	261

machine							2	1	1				1	1	1									7	
wood planer machine										2		1	1							1		1		6	
hollow chisel mortiser, wood borer					1					1			1							1		1		5	
chamfering machine, router, woodworking milling machine																									
chain saw			4		1		3	4	3	3	3	3	8	1	4	1	2	3	1	3	1	5	2	55	
other woodworking machines			3		4		2	3	5	6	2	3	5	2	4	3	1	3	3	2			8	1	60
leveling, transporting or loading machine			17		18		14	15	29	12	19	8	8	16	18	12	15	15	17	13	13	11	10	16	296
excavating machine			34		29		20	21	14	18	17	20	25	18	14	23	10	17	15	20	9	14	15	16	369
foundation work machine			1		2		1		1	1		2									1	1			10
hardening machine			9		8			3	4	2	1	1	2	2	2	1	2	2	1		1			1	42
demolition machine					2		1			1	2	2		1	2	1	3	4	4	1	3		2	2	31
vehicle for high lift work					3		1	2	3	3	2	4	4	1	1	3	3	8	2	3	2	6	6	4	61
other construction machines			8		12		5	18	14	9	12	6	10	10	7	8	6	7	6	10	3	9	5	8	173
lathe			1		2		1	1		2	1	1	2												11
drill press, milling machine			3		3		1	1	1	3		3				1	1		3	2	1	1	3	2	29

grinding machine, buffing machine			12		9		3	3	5	4	7	5	13	9	7	6	7	7	7	6	3	8	17	9	147
power press			2		1		3	1		1			1		1	2	2	1		1			2	1	19
forging pressure hammer					1													1							2
shearing machine			1		1						1	1	2		1			1	1	1			1		11
other metal manufacturing machines			8		9		5	7	4	7	9	3	5	3	6	3	10	3	2	1	4	4	3	5	101
centrifugal machine									1																1
mixer, grinder			1		5		1	3	1	3		3	1		2	1	1		2	6	2	2	1		35
roll machine (except printingroll machine)			1		3			4	8	3	4	1	1	1	1	2		1	1		1	2	1		35
injection molding machine											1			1											2
food manufacturing machine			2				1		2	3	1				2	1	1		2	2		1		2	20
printing machine			2					2	2	1											1	1	1		10
industrial robot													1				1						1		3
other general power machines			55		47		58	54	53	47	48	34	29	43	48	35	34	30	41	49	42	33	30	36	846
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			86		105		145	140	184	130	97	107	78	120	81	114	132	108	109	115	121	60	61	85	2,178
boiler											1										1				2
pressure vessel			4					1				1	1		1	1	1	1	1				1	1	13
other pressure vessels			18		14		10	6	7	4	9	10	4	8	7	5	7	5	5	5	6	4	5	3	142
chemical facilities			3				1	5	1	1		4	2	1	1	3	3	2		4		2	8	3	44
gas welding equipment			1		1		5		4	2	1	2	2	1		1	3		3	3	2		1	2	34
arc welding equipment			1						3	1	1		1	1		2	1			2	1			2	16
other welding equipment			1							1				1					1			1	1		6
kiln, caldron			1		1		2		1		1			2	2	1	3				1		1	2	18
industrial dryer																									
other kiln, caldron													1						2						3
transmission			1		4		4	4	6	3	2	4	7	9	4	4	1	5	4	8	5	3	7	9	94
electric power facilities			1		2		4	1		1	2	2	1	2	1	3	4	3	1	2		1	3	6	40
other electrical equipment			5		5		3	5	4	6	1	5	2	1	2	4	1	5	2	6	5	4	6	3	75
human power cranes			8		8		11	7	9	14	4	6	4	6	8	5	7	9	5	14	96	142	194	333	890
human power hauling equipment			472		535		548	630	725	799	630	727	688	739	770	800	770	928	897	971	898	902	839	842	15,110
human power machine			31		18		19	18	8	14	7	10	9	18	15	10	12	10	9	9	13	11	14	10	265
hand tool			113		97		104	96	88	101	88	72	100	99	94	83	62	79	69	68	85	87	86	71	1,742
ladder			232		240		266	257	281	295	272	304	271	235	303	297	302	270	318	350	354	394	388	400	6,029

slinging tool			62		67		78	65	57	62	37	42	34	54	46	40	39	29	36	30	28	34	33	27	900
other tools			581		555		537	642	639	647	515	479	523	534	525	591	567	578	572	614	652	593	635	657	11,636
other equipment, facilities			169		121		132	195	177	199	192	186	163	192	169	148	157	164	164	212	185	191	191	228	3,535
scaffolding			19		20		10	16	20	13	15	7	15	12	4	19	18	7	8	7	11	14	12	14	261
timbering					2		1	1	1			1			1				2					1	10
stairs, landing stage			407		447		420	438	479	513	479	478	436	460	478	534	477	540	611	636	630	664	673	685	10,485
opening			33		34		31	37	24	29	40	37	35	31	40	30	22	35	40	28	41	32	35	31	665
roof, beam, haze, crossbeam, principal rafter			18		12		11	21	17	11	16	12	23	21	11	10	7	11	12	10	16	13	6	6	264
working platform, boot board			357		308		324	328	329	330	312	341	298	292	312	311	289	302	317	341	302	309	327	311	6,340
passage			893		840		965	987	887	1,017	881	966	991	1,092	997	1,094	1,053	1,099	1,142	1,465	1,315	1,333	1,541	1,581	22,139
building, establishment			492		500		431	473	485	479	449	450	469	414	492	445	419	456	488	542	440	486	503	475	9,388
other temporary buildings, establishments			231		291		277	262	274	267	263	311	245	279	250	273	321	325	319	343	387	368	323	345	5,954
explosive substance			1		1		1	4	1	2	1	2	1	1	2		2				2	1			22
inflammable substance			7		7		5	4	8	4	3	3	5	2	5	5	5	2	3	3	7	5	5	8	96
inflammable gas			3		3		3	5	2	2	3	1	6	3	2	1	2	1	3	3	3	3		3	52
harmful substance			16		15		14	9	12	19	10	9	14	6	2	3	6	5	6	6	4	15	6	8	185
radiation																									
other hazards, harmful substances			17		11		19	24	16	24	13	9	12	11	16	13	10	11	20	6	12	20	12	18	294
metal material			507		426		396	395	374	340	273	263	251	263	291	279	246	241	260	263	233	196	198	245	5,940

lumber, bamboo			270		263		242	257	260	208	197	201	215	197	200	200	172	159	172	166	165	170	143	162	4,019
stone, sand, substance			49		32		28	23	31	30	20	17	17	16	20	28	17	11	19	25	24	15	14	21	457
other materials			140		144		111	137	124	126	93	102	107	107	96	103	101	72	81	89	71	77	94	81	2,056
load			2,202		1,998		1,797	1,871	1,976	1,907	1,601	1,558	1,598	1,584	1,575	1,518	1,484	1,513	1,526	1,619	1,570	1,563	1,554	1,669	33,683
machine/equipment as load			131		109		105	130	126	131	114	117	96	98	104	94	81	84	77	72	72	78	77	78	1,974
natural ground, rock			42		30		29	30	32	39	21	22	33	20	32	21	27	26	26	36	27	23	19	15	550
standing tree			13		13		7	6	12	7	15	11	22	9	8	5	9	2	8	5	9	10	14	9	194
water			12		11		10	16	10	12	7	5	191	12	10	11	13	16	9	12	10	12	6	3	388
abnormal environment			5		5		2	9	11	1	5	1	9	27	21	8	11	22	22	22	8	2	3	9	203
high/cold temperature environment			63		35		33	42	35	54	24	92	65	57	82	71	79	61	97	195	119	148	78	154	1,584
other environments			271		216		271	281	214	249	218	273	315	341	368	462	268	367	360	479	291	281	388	455	6,368
other causal agent			269		243		275	265	240	277	237	198	233	206	230	207	235	222	233	203	201	366	771	219	5,330
no causal agent			576		592		707	718	611	647	708	768	718	719	673	695	725	671	814	835	977	1,004	1,122	1,052	15,332
unclassifiable			81		105		61	81	88	95	61	44	52	69	55	48	43	36	32	30	28	20	21	25	1,075
total	17,711	18,120	18,439	17,108	17,540	17,689	17,259	17,740	17,464	17,354	15,253	15,861	16,048	15,908	16,303	16,421	15,976	16,087	16,622	17,783	16,968	16,859	17,867	17,735	408,115

Workers age of fatal and non-fatal accidents in 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	150	169	182	154	122	132	134	149	136	155	98	117	108	112	134	150	122	154	159	151	175	157	201	156	3,477
20-29	3,811	3,680	3,417	2,872	2,699	2,546	2,224	2,137	2,014	1,866	1,467	1,441	1,319	1,296	1,300	1,232	1,170	1,163	1,320	1,462	1,370	1,457	1,684	1,543	46,490

June	1,470	1,501	1,528	1,402	1,415	1,537	1,457	1,474	1,478	1,374	1,226	1,308	1,347	1,271	1,239	1,306	1,332	1,289	1,317	1,411	1,303	1,483	1,382	1,454	33,304
July	1,577	1,508	1,525	1,568	1,533	1,518	1,540	1,516	1,433	1,633	1,374	1,417	1,396	1,323	1,456	1,457	1,495	1,394	1,392	1,617	1,595	1,460	1,514	1,526	35,767
August	1,450	1,530	1,450	1,352	1,345	1,478	1,351	1,392	1,491	1,416	1,182	1,314	1,330	1,323	1,313	1,272	1,301	1,265	1,389	1,443	1,476	1,397	1,614	1,454	33,328
September	1,537	1,595	1,484	1,331	1,489	1,414	1,370	1,398	1,418	1,365	1,177	1,263	1,344	1,273	1,352	1,267	1,345	1,329	1,328	1,542	1,347	1,356	1,444	1,485	33,253
October	1,458	1,469	1,498	1,463	1,501	1,543	1,390	1,479	1,492	1,421	1,281	1,324	1,268	1,284	1,462	1,342	1,295	1,361	1,500	1,456	1,425	1,527	1,382	1,368	33,989
November	1,390	1,518	1,427	1,455	1,393	1,418	1,316	1,430	1,395	1,286	1,198	1,230	1,239	1,295	1,279	1,244	1,298	1,280	1,352	1,363	1,367	1,284	1,386	1,307	32,150
December	1,523	1,480	1,485	1,561	1,458	1,417	1,694	1,417	1,473	1,406	1,303	1,393	1,395	1,349	1,406	1,463	1,275	1,389	1,491	1,477	1,425	1,544	1,650	1,608	35,082
total	17,711	18,120	18,439	17,108	17,540	17,689	17,259	17,740	17,464	17,354	15,253	15,861	16,048	15,908	16,303	16,421	15,976	16,087	16,622	17,783	16,968	16,859	17,867	17,735	408,115

Prefecture of fatal and non-fatal accidents in 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	1,186	1,285	1,278		1,175		1,152	1,221	1,061	1,004	962	956	981	993	1,060	1,069	945	996	1,050	1,045	964	989	1,045	1,055	23,472
Aomori	170	150	187		162		144	107	167	145	124	136	130	171	144	129	133	133	141	144	140	140	189	144	3,230
Iwate	169	154	197		139		157	164	149	138	94	123	172	140	154	175	159	132	143	162	147	112	145	173	3,298
Miyagi	371	365	360		364		364	385	317	338	314	313	456	350	333	382	326	353	378	377	386	338	431	363	7,964
Akita	115	120	112		87		75	96	104	96	87	106	96	94	78	100	80	97	82	127	93	94	113	110	2,162
Yamagata	118	117	107		98		105	135	110	129	98	93	122	104	104	100	100	80	109	118	97	96	140	121	2,401
Fukushima	266	277	260		231		248	240	201	232	207	222	208	250	260	245	191	216	211	226	207	223	226	232	5,079
Ibaraki	398	445	457		408		406	427	402	393	340	389	445	379	427	398	389	369	398	400	357	396	417	409	8,849
Tochigi	256	240	264		244		229	213	239	230	222	212	174	215	205	218	193	185	212	237	217	243	257	252	4,957
Gunma	361	371	398		353		347	352	341	302	272	280	297	277	288	317	287	323	296	306	313	316	321	319	7,037
Saitama	775	779	910		899		921	1,001	1,012	993	909	933	930	967	948	974	1,024	1,012	1,009	1,091	1,113	1,148	1,222	1,286	21,856
Chiba	662	780	879		750		838	775	828	841	755	759	760	764	752	823	785	808	787	834	838	910	875	915	17,718
Tokyo	1,632	1,573	1,703		1,603		1,572	1,638	1,578	1,746	1,609	1,592	1,573	1,609	1,674	1,640	1,630	1,726	1,705	1,797	1,706	1,503	1,602	1,671	36,082
Kanagawa	984	1,037	1,011		915		982	1,011	1,109	1,143	963	1,045	998	1,048	1,022	1,088	1,060	1,032	1,082	1,125	1,070	1,064	1,091	1,153	23,033
Niigata	291	304	302		253		264	282	248	258	241	280	265	266	269	255	224	257	260	318	253	252	354	306	6,002

Nagasaki	149	147	127		184		147	130	147	137	136	138	154	128	136	150	129	135	112	150	156	168	149	159	3,168
Kumamoto	220	268	235		228		228	268	233	247	214	211	206	175	218	189	183	210	199	238	214	216	186	214	4,800
Oita	152	133	129		134		148	123	134	118	112	104	108	98	86	115	84	106	93	129	127	123	126	118	2,600
Miyazaki	148	139	149		135		174	140	162	144	132	133	120	118	118	159	145	137	133	157	161	145	162	166	3,177
Kagoshima	237	240	234		222		254	236	241	224	187	197	207	188	213	222	203	211	189	222	193	215	223	200	4,758
Okinawa	33	56	35		49		74	51	67	71	65	79	75	69	81	80	85	96	116	93	95	112	107	96	1,685
total	17,711	18,120	18,439	17,108	17,540	17,689	17,259	17,740	17,464	17,354	15,253	15,861	16,048	15,908	16,303	16,421	15,976	16,087	16,622	17,783	16,968	16,859	17,867	17,735	408,115

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 transportation service in Japan in 1999-2022

transportation service industry Code No.04

Type of fatal accidents in 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	17	25	26	13	20	22	22	15	17	16	14	13	20	7	11	17	21	7	19	14	20	19	13	24	412
falling to same level	1	3	1	1	4	2		2	4	3	3	4	3	2	2	2		2	1	1	2	1	5	1	50
crash	1	2			2		3	3		1		1			1	1	2	1		1	1				20
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	5	13	10	7	9	3	4	6	4	9	3	5	7	4	7	2	4	3	2	4	129
crashed by	8	3	4	5	5	5	3	12	7	8	4	4	4	8	5	13	3	2	6	3	5	7	5	2	131

caught in/between	17	20	20	20	22	18	15	13	16	22	4	10	18	16	9	12	10	10	18	12	7	15	10	9	343
cut						1				1															2
injury to the sole of the foot																									
drown	2	1		1	2	1	2	3			1		140	2	1	1	4	1	2	2	1		1		168
contact to high/low-temperature							2				1	2			1		2			5	3		1	1	18
contact to harmful substance				1				1			1	1	1	1			2					1			9
electric shock			1	1			2						1												5
explosion						1					1														2
burst	1						2					1					1						1	1	7
fire								1		1			1												3
traffic accident (public road)	226	216	196	192	189	181	187	131	135	95	71	97	69	81	73	72	68	66	62	53	48	31	41	37	2,617
traffic accident (others)	2	3	7	1	4	9	2	7	8	2	1	6	1			1	2		6	2		1		2	67
reaction to motion/improper motion																									
others	3	5	2	6	6	6	8	8	11	11	11	12	51	10	12	12	12	12	19	11	13	8	28	7	284
unclassifiable	1			1	1		1	1	1	1	3		2	2	1	1	1	1	1	2					21
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90	112	93	4,442

Causal agents (large) of fatal accidents in 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	3	1	1	3	2	1	2	2	1	1	3		5	2	1	2	1	5	69
crane, conveying machine	261	256	238	228	235	229	226	178	176	136	91	131	103	105	98	119	98	84	100	82	73	62	65	68	3,442
other equipment	1	5	8	7	2	4	4	5	7	3	4	3	2	8	1	3	6	2	9	3	7	4	5	5	108
temporary buildings, establishments	6	6	5	2	6	7	8	4	4	7	2	2	9	2	2	2	3	2	5	4	4	3	4	4	103
substance, material	1	2	4	3	1	3	3	5	4	2	7	7		4		1	4	1	1	1	1	3	2		60
load	6	9	2	4	7	15	10	6	11	7	7	6	8	9	4	4	8	4	7	3	6	5	5	2	155

environment	3	2	1	1	3	3	4	4		1	2	4	179	3	2	1	5	1	1	4	4	2	3	2	235
others	6	3	1	8	6	6	11	9	12	12	13	13	16	10	14	13	13	15	20	13	13	9	27	7	270
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90	112	93	4,442

Causal agents (middle) of fatal accidents in 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							1					3
woodworking machine										1															1
construction machine	3	7	6	4	7	2	3	1	1	1	2		1	2	1	1	2		4	1	1	1		4	55
metal manufacturing machine																									
general machine	1	1		2								1					1		1			1	1		9
mobile silviculture machine																								1	1
crane	3	3	4	7	3	5	6	6	6	9	2	4	4	1	2	4	3	3	4	2	3	3	3	3	93
conveying machine	231	221	193	182	194	188	189	143	141	99	81	105	89	94	82	97	75	66	76	61	58	52	54	55	2,826
vehicle	27	32	41	39	38	36	31	29	29	28	8	22	10	10	14	18	20	15	20	19	12	7	8	10	523
pressure vessel															1		1								2
chemical facilities																									
welding equipment																					1				1
kiln, caldron																									
electric equipment			1	1			1						1												4
human power machine, tools		1	2	1	1		1	3	2		2	2		2		1	2		1	2	3	1	1	1	29
tools	1	4	4	4		4	2	2	5	2	1	1	1	5		2	3	2	7	1	1	1	3	4	60
other equipments, facilities			1	1	1					1	1			1					1		2	2	1		12
temporary buildings, establishments	6	6	5	2	6	7	8	4	4	7	2	2	9	2	2	2	3	2	5	4	4	3	4	4	103
hazards, harmful substances						1		2			1						1			1		1			7

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	42	39	46	40	42	44	53	41	45	28	18	26	58	30	16	18	26	20	26	25	18	15	21	17	754
10-29	110	107	102	104	108	99	94	70	77	55	48	61	130	53	45	61	56	32	57	41	39	33	39	37	1,658
30-49	68	64	52	48	53	65	51	50	41	36	24	28	63	30	35	26	28	26	31	22	20	18	22	17	918
50-99	35	43	35	33	41	35	37	28	32	31	18	25	43	23	18	25	13	20	20	17	19	16	13	14	634
100-299	27	29	25	31	22	22	27	20	19	20	18	21	22	6	8	11	15	8	11	7	12	8	15	7	411
300 workers or more	6	9	5	3	1	4	7	3	1	1	2	6	3	1		3	2	3	3		1		2	1	67
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90	112	93	4,442

Month of fatal accidents in 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	21	25	16	20	21	19	15	13	15	12	14	16	11	11	11	18	11	10	16	4	8	7	16	9	339
February	25	23	23	14	24	18	16	15	17	14	11	12	11	14	9	14	15	9	15	9	10	11	10	13	352
March	27	33	29	21	28	19	30	19	21	11	10	16	192	17	10	22	14	6	13	15	6	7	9	8	583
April	13	17	27	18	16	29	20	17	19	16	11	10	13	12	8	8	12	12	12	9	9	7	8	6	329
May	21	18	25	23	16	17	13	18	14	23	9	13	8	10	9	12	5	13	6	9	7	5	19	5	318
June	26	22	18	32	20	28	26	15	18	18	8	10	14	12	9	10	12	8	11	5	10	9	7	3	351
July	28	31	25	23	17	21	31	18	25	18	10	27	11	16	11	5	10	9	6	12	14	6	10	8	392
August	22	22	27	12	22	25	26	15	21	9	12	18	7	10	11	11	7	4	15	10	8	8	12	10	344
September	18	31	20	20	20	23	25	19	17	6	9	10	15	12	6	12	14	7	6	8	12	9	5	10	334
October	26	24	19	26	26	25	18	16	15	15	11	12	14	11	14	12	18	11	12	13	11	4	6	7	366
November	29	22	18	23	33	18	12	19	13	9	10	10	10	7	13	10	12	8	13	10	8	6	7	5	325
December	32	23	18	27	24	27	37	28	20	20	13	13	13	11	11	10	10	12	23	8	6	11	3	9	409
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90	112	93	4,442

Prefecture of fatal accidents in 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	17	24	20	22	17	26	18	15	17	14	7	16	15	11	9	8	13	14	12	11	8	7	9	6	336
Aomori	6	2	2	2	8	1	2		2	3	3	3	3	2	1		2	2	4	1	1	1		1	52
Iwate	6	4	4	5		3	8	3	6	3		2	38		2	4	3	1	3	1	1	1	2	1	101
Miyagi	6	11	8	1	7	10	10	2	9	2	3	9	133	1	1	7	4		2	4	2	2	3	2	239
Akita	2	2	2			1	3	2	2	2		1	2	1	1		1		1		1	1			25
Yamagata	1	4	2	5	5	3	4	1	2	2	2	1		1		4	1	1			1			2	42
Fukushima	5	7	7	9	3	3	1	6	8	7	5	3	12	3	5	6	2		1	1	1	4		1	100
Ibaraki	3	6	5	6	6	11	10	3	5	3	3	3	5	8	4	6	7	2	3	4	2	1	2	4	112
Tochigi	7	5	7	3	10	4	13	5	5		1	3	3	4	3	4	1	3	6	4			7	5	103
Gunma	3	6	4	3	5	8	6	8	7	4	3	2	2	3		3		2	3	3	5	2	1		83
Saitama	12	19	16	6	9	7	9	3	8	4	9	11	8	6	5	5	5	5	6	2	6		9	5	175
Chiba	6	7	8	11	16	7	10	4	7	4	3	7	3	8	9	4	3	5	7	3	7	3	2	3	147
Tokyo	12	9	10	12	11	12	9	14	9	7	3	7	8	10	3	11	4	7	10	8	7	7	6	3	199
Kanagawa	9	10	9	11	10	11	9	12	9	5	5	8	5	4	5	3	4	4	5	3	3	4	2	3	153
Niigata	6	6	6	4	3	5	2	2	4	3	2	2	2	1	2	3	2	3	2	1	2	3	1	2	69
Toyama	4	4	2		5	3	3	5	1	5	1	3	1	2	4	3		2	3	2	1		2	3	59
Ishikawa	6	1		3	5	2	7		3	2	3		6		2	1	2	1		2		1		2	49
Fukui	5	3	1	3	5	1	3	7	3	3	3	1			1	3	1	2			1	2	2	2	52
Yamanashi	2	2		1	1	1		1	1	1	1	3		1	1	1	2		2				1	1	23
Nagano	8	1	4	6		6	3	1	5	2	1		2			3	3	1	5	4	1	2	5	2	65
Gifu	4	4	9	1	5	4	9	7	1	5	3	2	2	4	1	4	2	1	2		2		3	1	76
Shizuoka	11	14	7	14	9	11	11	2	6	4	5	8	3	6	7	5	5	4	5	2	1	2	1	2	145
Aichi	25	21	22	17	22	12	15	12	7	13	16	11	13	8	10	4	10	7	5	5	4	6	1	6	272
Mie	1	4	6	6	3	7	4	4	1	2	1	1		1	2	2	1	4	1	3	3	4	5		66
Shiga	5	1	3	5		3	3	3	2	2	2	1		2		1	2	1		1		1		2	40

Kyoto	4	7	5	3	6	2	4	2	2		2	2	2	2	2	5	5	1	4	1	1	2	2		66
Osaka	23	24	20	20	13	22	19	14	20	8	13	10	7	8	10	12	8	11	12	8	11	8	16	7	324
Hyogo	14	18	5	8	8	10	14	10	9	9	2	7	5	5	5	3	11	2	4	7	6	3	6	2	173
Nara	2	4	2	2	2	3	5	5	3			2	1	3	2	2	1	2	2	2			3	1	49
Wakayama	1	5	4	3	4	2				1		2	1	1			4	1	2		1		1	1	34
Tottori		1	2	1	4	3	4	4		2	1		1	1			1		1		1				27
Shimane		2	4	2	1	1	2	1		2	3	1	1	1	1						2				24
Okayama	8	4	7	8	4	7	5	7	4		3	3	2	3	6	3	5	2	3	2	1	3		1	91
Hiroshima	14	8	7	5	6	17	9	12	8	4	2	4	10	4	4	1	4	2	4	5	6		1	6	143
Yamaguchi	3	5	2	3		9	5		3	1	2	2	3		1	3		3		2	1		2	2	52
Tokushima		3	2	2	1	1	3	1	1	1	1	1					2	1		3	1	1	1	3	29
Kagawa	2	3	6	3	5		2		2	2	2	1	1	3	1	2	1		4	3	3		3		49
Ehime	5	2	2	3	2	1	1	1	3	6		2		2		3	1		2						36
Kochi	1	2	3	3	1	1	1	2	2	1	1	1	1	1	2	1	1	1		1	1	2		1	31
Fukuoka	18	10	12	13	20	12	7	13	14	13	5	6	11	8	5	6	8	2	8	9	6	7	5	3	221
Saga	6	1	3	5	5	3	3	5	1	1		2		2		1	1	3	2		1	2			47
Nagasaki	2		6		2	4	2	2	2	4	1	1	1	1	1	2	1	2	2	1	1	1		2	41
Kumamoto	3	3	2	3	6	4	4	2	4	7	2	3	2	4	3		1		2	1	2		1		59
Oita	3	1	2	5	2	4	2	2	1	2	2	2	1	1							1	2	3	1	37
Miyazaki	1	3	4	2	4		3	2	1	1		4		4		1	2	2	4	2	1	3	3	2	49
Kagoshima	5	6	1	9	4	1	2	4	4	4	1	3	3	2		3	2	2	4		1	2	1	2	66
Okinawa	1	2			2			1	1						1	1	1				1				11
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90	112	93	4,442

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

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