

Fatal and non-fatal accidents in transportation service in Japan in 1999-2021

transportation service industry Code No.04

Type of accidents in transportation service in 1999-2021

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	total	Type of accidents
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	98,854	fall from height
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	56,204	falling to same level
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	26,458	crash
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	19,580	struck by flying or falling object
collapse	531	572	548	497	556	547	486	504	523	506	437	467	419	443	448	384	403	374	388	426	440	386	398	10,683	collapse
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	18,221	crashed by
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	41,181	caught in/between
cut	224	256	263	209	236	206	214	211	199	209	197	191	185	167	210	178	147	172	158	175	162	157	160	4,486	cut
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	535	injury to the sole of the foot
drown	3	1		2	2	1	2	2		1	1	1	140	2	2	1	4	1	2	2	3		1	174	drown
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	2,619	contact to high/low-temperature
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	610	contact to harmful substance
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	101	electric shock
explosion	6	7	2	4	7	5	4	5	5	6	2	4	4		2	1	3		6	2	6	2	5	88	explosion

burst	9	12	17	7	11	14	13	9	12	7	6	6	5	6	4	10	3	6	4	2	7	6	5	181	burst
fire	4	11	5	3	4	6	4	5	5	2	3	2	3	2	2	5	5		1	3	1	2	3	81	fire
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	50,411	traffic accident (public road)
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	810	traffic accident (others)
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	52,534	reaction to motion/improper motion
others	138	172	152	174	157	170	182	203	225	273	255	218	251	189	151	132	181	165	183	160	193	361	782	5,067	others
unclassifiable	82	82	86	117	118	108	75	82	79	76	53	43	46	69	62	56	46	59	44	42	28	25	24	1,502	unclassifiable
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	390,380	total

Causal agents (large) of fatal and non-fatal accidents in transportation service in 1999-2021

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	total	Causal (L) agents
machine	208	188	202	189	189	178	145	162	175	161	153	124	143	128	149	123	130	122	127	139	110	113	123	3,481	machine
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	187,853	crane, conveying machine
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	44,661	other equipment
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	61,367	temporary buildings, establishments
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	16,463	substance, material
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	42,367	load

environment	287	291	406	285	310	343	352	384	314	362	290	404	635	466	521	578	407	494	522	749	464	476	508	9,848	environment
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	24,340	others
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	390,380	total

Causal agents (middle) of fatal and non-fatal accidents in transportation service in 1999-2021

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	total	Causal (M) agents
engine	4	4	3	3		4	1	2	2	2		1	2	2	4	3	5	1	2	4	3	1	2	55	engine
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	233	power transmission mechanism
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	434	woodworking machine
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	1,189	construction machine
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	378	metal manufacturing machine
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	1,181	general machine
mobile silviculture machine																	1	2	2	2	2		2	11	mobile silviculture machine
crane	365	324	316	313	343	330	313	286	268	250	189	212	193	179	221	218	199	207	188	201	204	182	194	5,695	crane
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	140,489	conveying machine
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	41,669	vehicle
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	211	pressure vessel

chemical facilities	1		3	2		3	1	5	1	1		4	2	1	1	3	3	2		4		2	8	47	chemical facilities
welding equipment	5	7	3	6	1	3	5		7	4	2	2	3	3		3	4		4	5	3	1	2	73	welding equipment
kiln, caldron		2	1	2	1		2		1		1		1	2	2	1	3		2		1		1	23	kiln, caldron
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	243	electric equipment
human power machine, tools	584	605	624	675	658	720	682	751	830	928	729	815	801	862	887	898	851	1,026	980	1,062	1,092	1,142	1,133	19,335	human power machine, tools
tools	821	826	875	861	862	875	881	964	977	1,004	824	825	828	823	874	928	908	877	926	994	1,034	1,021	1,056	20,864	tools
other equipments, facilities	142	154	169	119	121	143	132	195	177	199	192	186	163	192	169	148	157	164	164	212	185	191	191	3,865	other equipments, facilities
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	61,367	temporary buildings, establishments
hazards, harmful substances	37	54	44	36	37	29	42	46	39	51	30	24	38	23	27	22	25	19	32	18	28	44	23	768	hazards, harmful substances
materials	1,029	1,010	966	862	865	831	777	812	789	704	583	583	590	583	607	610	536	483	532	543	493	458	449	15,695	materials
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	42,367	load
natural environment	287	291	406	285	310	343	352	384	314	362	290	404	635	466	521	578	407	494	522	749	464	476	508	9,848	natural environment
other causal agent	281	292	269	233	243	292	275	265	240	277	237	198	233	206	230	207	235	222	233	203	201	366	771	6,209	other causal agent
no causal agent	609	550	576	653	592	627	707	718	611	647	708	768	718	719	673	695	725	671	814	835	977	1,004	1,122	16,719	no causal agent
unclassifiable	101	89	81	99	105	73	61	81	88	95	61	44	52	69	55	48	43	36	32	30	28	20	21	1,412	unclassifiable
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	390,380	total

Causal agents (small) of fatal and non-fatal accidents in transportation service in 1999-2021

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	2021	total	Causal (S) agents	
engine			3				1	2	2	2		1	2	2	4	3	5	1	2	4	3	1	2	40	engine	
power transmission mechanism			16		10		12	10	10	9	11	11	14	6	13	9	16	8	4	10	12	4	9	194	power transmission mechanism	
circular sawing machine			19		18		12	6	12	20	9	12	9	9	11	7	9	9	10	2	5	9	1	189	circular sawing machine	
band sawing machine								2	1	1				1	1	1								7	band sawing machine	
wood planer machine											2		1	1							1		1	6	wood planer machine	
hollow chisel mortiser, wood borer					1						1			1						1		1		5	hollow chisel mortiser, wood borer	
chamfering machine, router, woodworking milling machine																										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	chain saw	
other woodworking machines			3		4		2	3	5	6	2	3	5	2	4	3	1	3	3	2			8	59	other woodworking machines	
leveling, transporting or loading machine			17		18		14	15	29	12	19	8	8	16	18	12	15	15	17	13	13	11	10	280	leveling, transporting or loading machine	
excavating machine			34		29		20	21	14	18	17	20	25	18	14	23	10	17	15	20	9	14	15	353	excavating machine	
foundation work machine			1		2		1		1	1		2									1	1		10	foundation work machine	
hardening machine			9		8			3	4	2	1	1	2	2	2	1	2	2	1		1			41	hardening machine	



power machines			55		47		58	54	53	47	48	34	29	43	48	35	34	30	41	49	42	33	30	810	power machines
felling machine																		1	1	1	2		1	6	felling machine
mobile logging machine																	1		1	1			1	4	mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																	1							1	other mobile silviculture machine
crane			124		140		118	124	110	104	64	80	65	78	76	72	60	74	71	71	76	67	69	1,643	crane
mobile crane			157		155		161	138	130	125	97	109	109	80	116	115	117	112	98	108	104	96	95	2,222	mobile crane
derrick crane					1																			1	derrick crane
elevator, lift			19		27		17	17	18	16	19	12	10	15	21	16	13	12	13	13	15	8	18	299	elevator, lift
cargo lifting appliance								1					2		1		1	1			2	2		10	cargo lifting appliance
gondola											1										1	1	2	5	gondola
lumberyard equipment, logging cableway			1											1				1			1		1	5	lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane			15		20		17	7	9	5	8	11	7	5	7	15	8	7	6	9	5	8	9	178	other powered crane
truck			6,279		5,947		5,673	5,617	5,420	5,231	4,518	4,783	4,819	4,761	5,024	4,957	4,916	4,670	4,859	4,997	4,822	4,852	5,018	97,163	truck
forklift			829		827		813	861	797	710	643	628	687	638	581	595	606	617	635	712	662	612	641	13,094	forklift
railway equipment			3		5		4	4	4	4	4	2	3	3	5	2	1	2	3	1	5		1	56	railway equipment
conveyor			125		85		81	73	94	85	65	74	65	87	90	66	50	66	68	67	74	71	62	1,448	conveyor
loader			2		4		2	3	6	5	2	5	4	5	2	4	7	5	3	3	6	2	6	76	loader
straddle carrier								3	2					3		1	1	1	3			1	2	17	straddle carrier







harmful substance			16		15		14	9	12	19	10	9	14	6	2	3	6	5	6	6	4	15	6	177	harmful substance
radiation																									radiation
other hazards, harmful substances			17		11		19	24	16	24	13	9	12	11	16	13	10	11	20	6	12	20	12	276	other hazards, harmful substances
metal material			507		426		396	395	374	340	273	263	251	263	291	279	246	241	260	263	233	196	198	5,695	metal material
lumber, bamboo			270		263		242	257	260	208	197	201	215	197	200	200	172	159	172	166	165	170	143	3,857	lumber, bamboo
stone, sand, substance			49		32		28	23	31	30	20	17	17	16	20	28	17	11	19	25	24	15	14	436	stone, sand, substance
other materials			140		144		111	137	124	126	93	102	107	107	96	103	101	72	81	89	71	77	94	1,975	other materials
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	32,014	load
machine/equipment as load			131		109		105	130	126	131	114	117	96	98	104	94	81	84	77	72	72	78	77	1,896	machine/equipment as load
natural ground, rock			42		30		29	30	32	39	21	22	33	20	32	21	27	26	26	36	27	23	19	535	natural ground, rock
standing tree			13		13		7	6	12	7	15	11	22	9	8	5	9	2	8	5	9	10	14	185	standing tree
water			12		11		10	16	10	12	7	5	191	12	10	11	13	16	9	12	10	12	6	385	water
abnormal environment			5		5		2	9	11	1	5	1	9	27	21	8	11	22	22	22	8	2	3	194	abnormal environment
high/cold temperature environment			63		35		33	42	35	54	24	92	65	57	82	71	79	61	97	195	119	148	78	1,430	high/cold temperature environment
other environments			271		216		271	281	214	249	218	273	315	341	368	462	268	367	360	479	291	281	388	5,913	other environments
other causal agent			269		243		275	265	240	277	237	198	233	206	230	207	235	222	233	203	201	366	771	5,111	other causal agent
no causal agent			576		592		707	718	611	647	708	768	718	719	673	695	725	671	814	835	977	1,004	1,122	14,280	no causal agent
unclassifiable			81		105		61	81	88	95	61	44	52	69	55	48	43	36	32	30	28	20	21	1,050	unclassifiable
total			18,439		17,540		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	319,752	total

Workers age of fatal and non-fatal accidents in transportation service in 1999-2021



February	1,530	1,559	1,641	1,315	1,447	1,535	1,416	1,562	1,422	1,563	1,299	1,337	1,247	1,499	1,357	1,663	1,303	1,267	1,394	1,528	1,365	1,463	1,512	33,224	February
March	1,585	1,674	1,775	1,476	1,602	1,665	1,668	1,659	1,651	1,593	1,421	1,493	1,536	1,424	1,425	1,558	1,429	1,434	1,466	1,578	1,487	1,500	1,596	35,695	March
April	1,475	1,512	1,517	1,350	1,457	1,424	1,405	1,435	1,485	1,455	1,313	1,271	1,298	1,283	1,320	1,222	1,316	1,411	1,310	1,377	1,453	1,301	1,403	31,793	April
May	1,311	1,391	1,413	1,369	1,404	1,266	1,277	1,395	1,443	1,415	1,131	1,134	1,192	1,185	1,240	1,189	1,195	1,210	1,227	1,249	1,361	1,170	1,361	29,528	May
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	31,850	June
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	34,241	July
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	31,874	August
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	31,768	September
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	32,621	October
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	30,843	November
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	33,474	December
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	390,380	total

Prefecture of fatal and non-fatal accidents in transportation service in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
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	22,417	Hokkaido
Aomori	170	150	187		162		144	107	167	145	124	136	130	171	144	129	133	133	141	144	140	140	189	3,086	Aomori
Iwate	169	154	197		139		157	164	149	138	94	123	172	140	154	175	159	132	143	162	147	112	145	3,125	Iwate
Miyagi	371	365	360		364		364	385	317	338	314	313	456	350	333	382	326	353	378	377	386	338	431	7,601	Miyagi
Akita	115	120	112		87		75	96	104	96	87	106	96	94	78	100	80	97	82	127	93	94	113	2,052	Akita
Yamagata	118	117	107		98		105	135	110	129	98	93	122	104	104	100	100	80	109	118	97	96	140	2,280	Yamagata
Fukushima	266	277	260		231		248	240	201	232	207	222	208	250	260	245	191	216	211	226	207	223	226	4,847	Fukushima
Ibaraki	398	445	457		408		406	427	402	393	340	389	445	379	427	398	389	369	398	400	357	396	417	8,440	Ibaraki
Tochigi	256	240	264		244		229	213	239	230	222	212	174	215	205	218	193	185	212	237	217	243	257	4,705	Tochigi
Gunma	361	371	398		353		347	352	341	302	272	280	297	277	288	317	287	323	296	306	313	316	321	6,718	Gunma
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	20,570	Saitama
Chiba	662	780	879		750		838	775	828	841	755	759	760	764	752	823	785	808	787	834	838	910	875	16,803	Chiba



Fukuoka	868	817	863		926		787	834	814	833	738	801	753	733	726	769	721	768	804	839	822	834	922	16,972	Fukuoka
Saga	139	156	141		156		167	150	157	136	116	152	140	145	160	164	144	123	133	152	172	163	160	3,126	Saga
Nagasaki	149	147	127		184		147	130	147	137	136	138	154	128	136	150	129	135	112	150	156	168	149	3,009	Nagasaki
Kumamoto	220	268	235		228		228	268	233	247	214	211	206	175	218	189	183	210	199	238	214	216	186	4,586	Kumamoto
Oita	152	133	129		134		148	123	134	118	112	104	108	98	86	115	84	106	93	129	127	123	126	2,482	Oita
Miyazaki	148	139	149		135		174	140	162	144	132	133	120	118	118	159	145	137	133	157	161	145	162	3,011	Miyazaki
Kagoshima	237	240	234		222		254	236	241	224	187	197	207	188	213	222	203	211	189	222	193	215	223	4,558	Kagoshima
Okinawa	33	56	35		49		74	51	67	71	65	79	75	69	81	80	85	96	116	93	95	112	107	1,589	Okinawa
total	17,711	18,120	18,439		17,540		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	355,583	total

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. 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.htm> (MHLW, Japan)

Return to [https://www.jisha.or.jp/english/statistics/2021e\\_industry.html](https://www.jisha.or.jp/english/statistics/2021e_industry.html)

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#### Fatal accidents in transportation service in Japan in 1999-2021

transportation service industry Code No.04

#### Type of fatal accidents in transportation service in 1999-2021

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	total	Type of accidents
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	388	fall from height
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	49	falling to same level
crash	1	2			2		3	3		1		1			1	1	2	1		1	1			20	crash
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	148	struck by flying or falling object
collapse	6	6	1	5	5	13	10	7	9	3	4	6	4	9	3	5	7	4	7	2	4	3	2	125	collapse

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	129	crashed by
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	334	caught in/between
cut						1				1														2	cut
injury to the sole of the foot																									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	drown
contact to high/low-temperature							2				1	2			1		2			5	3		1	17	contact to high/low-temperature
contact to harmful substance				1				1			1	1	1	1			2					1		9	contact to harmful substance
electric shock			1	1			2						1											5	electric shock
explosion						1					1													2	explosion
burst	1						2					1				1						1	1	7	burst
fire								1		1			1											3	fire
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	2,580	traffic accident (public road)
traffic accident (others)	2	3	7	1	4	9	2	7	8	2	1	6	1			1	2		6	2		1		65	traffic accident (others)
reaction to motion/improper motion																									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	277	others
unclassifiable	1			1	1		1	1	1	1	3		2	2	1	1	1	1	1	2				21	unclassifiable
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90	112	4,349	total

Causal agents (large) of fatal accidents in transportation service in 1999-2021

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	total	Causal (L) agents
machine	4	8	6	6	7	2	3	1	1	3	2	1	2	2	1	1	3		5	2	1	2	1	64	machine
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	3,374	crane, conveying machine
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	103	other equipment
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	99	temporary buildings, establishments
substance, material	1	2	4	3	1	3	3	5	4	2	7	7		4		1	4	1	1	1	1	3	2	60	substance, material
load	6	9	2	4	7	15	10	6	11	7	7	6	8	9	4	4	8	4	7	3	6	5	5	153	load
environment	3	2	1	1	3	3	4	4		1	2	4	179	3	2	1	5	1	1	4	4	2	3	233	environment

others	6	3	1	8	6	6	11	9	12	12	13	13	16	10	14	13	13	15	20	13	13	9	27	263	others
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90	112	4,349	total

Causal agents (middle) of fatal accidents in transportation service in 1999-2021

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	total	Causal (M) agents	
engine																										engine
power transmission mechanism										1			1								1				3	power transmission mechanism
woodworking machine										1															1	woodworking machine
construction machine	3	7	6	4	7	2	3	1	1	1	2		1	2	1	1	2		4	1	1	1		51	construction machine	
metal manufacturing machine																										metal manufacturing machine
general machine	1	1		2								1					1		1			1	1		9	general machine
mobile silviculture machine																										mobile silviculture machine
crane	3	3	4	7	3	5	6	6	6	9	2	4	4	1	2	4	3	3	4	2	3	3	3	90	crane	
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	2,771	conveying machine	
vehicle	27	32	41	39	38	36	31	29	29	28	8	22	10	10	14	18	20	15	20	19	12	7	8	513	vehicle	
pressure vessel																1		1							2	pressure vessel
chemical facilities																										chemical facilities
welding equipment																						1			1	welding equipment
kiln, caldron																										kiln, caldron
electric equipment			1	1			1						1												4	electric equipment
human power machine, tools		1	2	1	1		1	3	2		2	2		2		1	2		1	2	3	1	1	28	human power machine, tools	
tools	1	4	4	4		4	2	2	5	2	1	1	1	5		2	3	2	7	1	1	1	3	56	tools	
other equipments, facilities			1	1	1					1	1			1					1		2	2	1	12	other equipments, facilities	
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	99	temporary buildings, establishments	
hazards, harmful substances						1		2			1						1			1		1		7	hazards, harmful substances	
materials	1	2	4	3	1	2	3	3	4	2	6	7		4		1	3	1	1		1	2	2	53	materials	
load	6	9	2	4	7	15	10	6	11	7	7	6	8	9	4	4	8	4	7	3	6	5	5	153	load	



natural environment	3	2	1	1	3	3	4	4		1	2	4	179	3	2	1	5	1	1	4	4	2	3	233	natural environment
other causal agent	3	2	1	4	4	4	5		5	1	3	1	4	1	2	1				1	1	3	18	64	other causal agent
no causal agent	1	1		3	1	1	4	8	6	10	7	10	8	7	11	11	12	14	19	9	12	6	9	170	no causal agent
unclassifiable	2			1	1	1	2	1	1	1	3	2	4	2	1	1	1	1	1	3				29	unclassifiable
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90	112	4,349	total

Causal agents (small) of fatal accidents in transportation service in 1999-2021

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	2021	total	Causal (S) agents	
engine																										engine
power transmission mechanism										1			1							1					3	power transmission mechanism
circular sawing machine										1															1	circular sawing machine
band sawing machine																										band sawing machine
wood planer machine																										wood planer machine
hollow chisel mortiser, wood borer																										hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																										chamfering machine, router, woodworking milling machine
chain saw																										chain saw
other woodworking machines																										other woodworking machines
leveling, transporting or loading machine	1	2	2	1	4	1		1			1		1		1	1	1		3						20	leveling, transporting or loading machine
excavating machine		1	4	4	2	2		2			1	1									1				18	excavating machine
foundation work machine																										foundation work machine
hardening machine	1			1		1														1					4	hardening machine

demolition machine												1							1				2	demolition machine	
vehicle for high lift work						1									1					1				3	vehicle for high lift work
other construction machines		1			1										1									4	other construction machines
lathe																									lathe
drill press, milling machine																									drill press, milling machine
grinding machine, buffing machine																									grinding machine, buffing machine
power press																									power press
forging pressure hammer																									forging pressure hammer
shearing machine																									shearing machine
other metal manufacturing machines																									other metal manufacturing machines
centrifugal machine																									centrifugal machine
mixer, grinder																									mixer, grinder
roll machine (except printingroll machine)																									roll machine (except printingroll machine)
injection molding machine																									injection molding machine
food manufacturing machine																									food manufacturing machine
printing machine																									printing machine
industrial robot															1									1	industrial robot
other general power machines	1	1			2												1				1		1	8	other general power machines
felling machine																									felling machine
mobile logging machine																									mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																									other mobile silviculture machine

																									machine
crane	1			2	1	1		1	1	3					2	1	1				2	3	19	crane	
mobile crane	2	3	4	4	1	4	5	4	3	5	2	3	3	1	1	2	2	1	4	2	3	1		60	mobile crane
derrick crane																									derrick crane
elevator, lift				1	1			1	2	1		1	1					1						9	elevator, lift
cargo lifting appliance																									cargo lifting appliance
gondola																									gondola
lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane							1								1									2	other powered crane
truck	220	205	190	176	180	178	181	130	133	92	75	101	86	88	78	88	69	60	71	57	55	44	53	2,610	truck
forklift	9	10	2	5	11	8	8	12	7	7	5	4	3	5	4	8	4	5	5	4	2	7	1	136	forklift
railway equipment																									railway equipment
conveyor	1	2						1	1					1										6	conveyor
loader				1														1						2	loader
straddle carrier																									straddle carrier
rough terrain hauler																	1							1	rough terrain hauler
other powered conveying machines	1	4	1		3	2					1					1	1					1	1	16	other powered conveying machines
cars, bus, motorcycle	25	30	33	37	33	27	27	22	21	25	8	15	8	9	12	16	16	13	12	15	12	5	7	428	cars, bus, motorcycle
railway vehicle		1	3	1	2	1	3	6	2			1							1					21	railway vehicle
other vehicles	2	1	5	1	3	8	1	1	6	3		6	2	1	2	2	4	2	7	4		2	1	64	other vehicles
boiler																									boiler
pressure vessel																									pressure vessel
other pressure vessels															1		1							2	other pressure vessels
chemical facilities																									chemical facilities

gas welding equipment																						gas welding equipment			
arc welding equipment																			1			1	arc welding equipment		
other welding equipment																							other welding equipment		
kiln, caldron																							kiln, caldron		
industrial dryer																							industrial dryer		
other kiln, caldron																							other kiln, caldron		
transmission			1									1											2	transmission	
electric power facilities				1			1																	2	electric power facilities
other electrical equipment																									other electrical equipment
human power cranes			1	1															1				1	4	human power cranes
human power hauling equipment			1				1	2	2		2	2		2		1	2		1	1	3	1		21	human power hauling equipment
human power machine								1																1	human power machine
hand tool		1			1																			2	hand tool
ladder			1						4			1	1				2		2		1	1	1	14	ladder
slinging tool	1	2	2	4		3	2	2		2	1				5		1	1	2	1	1		2	32	slinging tool
other tools		2	1			1			1								1			4				10	other tools
other equipment, facilities			1	1	1					1	1				1				1		2	2	1	12	other equipment, facilities
scaffolding										1														1	scaffolding
timbering																									timbering
stairs, landing stage	2		1		2	1				1	1			2	1		1			2		2	1	17	stairs, landing stage
opening			1			1				2						1		1						6	opening
roof, beam, haze, crossbeam, principal rafter	1	2					1	1		1				2	1				1					10	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			1	1					2				1				1	1		2				9	working platform, boot board
passage		1						1	1						1				1				3	8	passage
building, establishment	2	1	2	1	3	2	6	2	1	2	1	2	3		1			1	1	2	2			35	building, establishment

other temporary buildings, establishments	1	2			1	3	1						1				1	1	1				1	13	other temporary buildings, establishments	
explosive substance																										explosive substance
inflammable substance																									1	inflammable substance
inflammable gas																										inflammable gas
harmful substance																								1	3	harmful substance
radiation																										radiation
other hazards, harmful substances																									3	other hazards, harmful substances
metal material	1	1	3	1		2		1	1		2	4		2			1	1			1				21	metal material
lumber, bamboo			1	2	1		2	1	3	2		2		1		1			1				2	2	21	lumber, bamboo
stone, sand, substance		1																							1	stone, sand, substance
other materials								1	1			4	1		1			2							10	other materials
load	3	8	1	4	4	14	9	6	10	6	5	4	8	9	4	4	5	4	5	3	6	4	4	4	130	load
machine/equipment as load	3	1	1		3	1	1		1	1	2	2					3		2				1	1	23	machine/equipment as load
natural ground, rock	1		1		2	2						1				1		1							9	natural ground, rock
standing tree																							1	1	2	standing tree
water	1					1	1	2					175	1			2			1	1				185	water
abnormal environment				1									1	1			1								4	abnormal environment
high/cold temperature environment								2				1	2	1		1		2			3	2	1	1	16	high/cold temperature environment
other environments	1	2			1		1	2		1		2	2	1	1				1		1		1	1	17	other environments
other causal agent	3	2	1	4	4	4	5		5	1	3	1	4	1	2	1				1	1	3	18	64	other causal agent	
no causal agent	1	1		3	1	1	4	8	6	10	7	10	8	7	11	11	12	14	19	9	12	6	9	170	no causal agent	
unclassifiable	2			1	1	1	2	1	1	1	3	2	4	2	1	1	1	1	1	3					29	unclassifiable
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90	112	4,349	total	

Workers age of fatal accidents in transportation service in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less	3			1	1	4	2	1				1	2						1					16	19 years old or less
20-29	54	57	42	34	31	31	34	22	20	10	9	11	10	7	12	5	6	6	11	5		3	7	427	20-29
30-39	59	65	61	52	53	69	64	49	42	27	24	28	57	23	12	17	15	10	10	7	8	11	7	770	30-39
40-49	72	72	53	67	67	56	54	46	50	52	35	45	77	37	38	49	28	25	44	30	29	14	15	1,055	40-49
50-59	79	73	80	75	84	67	81	63	61	57	32	42	91	41	27	37	54	40	52	29	40	25	40	1,270	50-59
60 years old or more	21	24	29	30	31	42	34	31	42	25	28	40	82	35	33	36	37	28	30	41	32	37	43	811	60 years old or more
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90	112	4,349	total

Workers' number of workplace of fatal accidents in transportation service in 1999-2021

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	total	Workers scale
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	737	9 workers or less
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	1,621	10-29
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	901	30-49
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	620	50-99
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	404	100-299
300 workers or more	6	9	5	3	1	4	7	3	1	1	2	6	3	1		3	2	3	3		1		2	66	300 workers or more
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90	112	4,349	total

Month of fatal accidents in transportation service in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	21	25	16	20	21	19	15	13	15	12	14	16	11	11	11	18	11	10	16	4	8	7	16	330	January
February	25	23	23	14	24	18	16	15	17	14	11	12	11	14	9	14	15	9	15	9	10	11	10	339	February
March	27	33	29	21	28	19	30	19	21	11	10	16	19	17	10	22	14	6	13	15	6	7	9	575	March

April	13	17	27	18	16	29	20	17	19	16	11	10	13	12	8	8	12	12	12	9	9	7	8	323	April
May	21	18	25	23	16	17	13	18	14	23	9	13	8	10	9	12	5	13	6	9	7	5	19	313	May
June	26	22	18	32	20	28	26	15	18	18	8	10	14	12	9	10	12	8	11	5	10	9	7	348	June
July	28	31	25	23	17	21	31	18	25	18	10	27	11	16	11	5	10	9	6	12	14	6	10	384	July
August	22	22	27	12	22	25	26	15	21	9	12	18	7	10	11	11	7	4	15	10	8	8	12	334	August
September	18	31	20	20	20	23	25	19	17	6	9	10	15	12	6	12	14	7	6	8	12	9	5	324	September
October	26	24	19	26	26	25	18	16	15	15	11	12	14	11	14	12	18	11	12	13	11	4	6	359	October
November	29	22	18	23	33	18	12	19	13	9	10	10	10	7	13	10	12	8	13	10	8	6	7	320	November
December	32	23	18	27	24	27	37	28	20	20	13	13	13	11	11	10	10	12	23	8	6	11	3	400	December
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90	112	4,349	total

Prefecture of fatal accidents in transportation service in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	17	24	20	22	17	26	18	15	17	14	7	16	15	11	9	8	13	14	12	11	8	7	9	330	Hokkaido
Aomori	6	2	2	2	8	1	2		2	3	3	3	3	2	1		2	2	4	1	1	1		51	Aomori
Iwate	6	4	4	5		3	8	3	6	3		2	38		2	4	3	1	3	1	1	1	2	100	Iwate
Miyagi	6	11	8	1	7	10	10	2	9	2	3	9	133	1	1	7	4		2	4	2	2	3	237	Miyagi
Akita	2	2	2			1	3	2	2	2		1	2	1	1		1		1		1	1		25	Akita
Yamagata	1	4	2	5	5	3	4	1	2	2	2	1		1		4	1	1			1			40	Yamagata
Fukushima	5	7	7	9	3	3	1	6	8	7	5	3	12	3	5	6	2		1	1	1	4		99	Fukushima
Ibaraki	3	6	5	6	6	11	10	3	5	3	3	3	5	8	4	6	7	2	3	4	2	1	2	108	Ibaraki
Tochigi	7	5	7	3	10	4	13	5	5		1	3	3	4	3	4	1	3	6	4			7	98	Tochigi
Gunma	3	6	4	3	5	8	6	8	7	4	3	2	2	3		3		2	3	3	5	2	1	83	Gunma
Saitama	12	19	16	6	9	7	9	3	8	4	9	11	8	6	5	5	5	5	6	2	6		9	170	Saitama
Chiba	6	7	8	11	16	7	10	4	7	4	3	7	3	8	9	4	3	5	7	3	7	3	2	144	Chiba
Tokyo	12	9	10	12	11	12	9	14	9	7	3	7	8	10	3	11	4	7	10	8	7	7	6	196	Tokyo
Kanagawa	9	10	9	11	10	11	9	12	9	5	5	8	5	4	5	3	4	4	5	3	3	4	2	150	Kanagawa





Nagasaki	2		6		2	4	2	2	2	4	1	1	1	1	1	2	1	2	2	1	1	1		39	Nagasaki
Kumamoto	3	3	2	3	6	4	4	2	4	7	2	3	2	4	3		1		2	1	2		1	59	Kumamoto
Oita	3	1	2	5	2	4	2	2	1	2	2	2	1	1							1	2	3	36	Oita
Miyazaki	1	3	4	2	4		3	2	1	1		4		4		1	2	2	4	2	1	3	3	47	Miyazaki
Kagoshima	5	6	1	9	4	1	2	4	4	4	1	3	3	2		3	2	2	4		1	2	1	64	Kagoshima
Okinawa	1	2			2			1	1						1	1	1				1			11	Okinawa
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90	112	4,349	total

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

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