

Fatal and non-fatal accidents in road passenger transport service in Japan in 1999-2021

road passenger transport service industry Code No.0402

Type of accidents in road passenger transport 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	167	157	152	186	189	175	169	178	188	185	165	214	143	148	167	157	159	196	171	214	205	170	175	4,030	fall from height	
falling to same level	384	363	446	361	467	459	517	460	435	475	505	510	559	601	607	646	548	523	565	711	587	537	608	11,874	falling to same level	
crash	63	68	75	76	84	83	72	103	94	78	87	100	93	89	83	96	103	117	92	118	95	108	104	2,081	crash	
struck by flying or falling object	28	25	29	14	18	24	12	25	21	18	32	15	30	20	19	14	24	20	12	15	19	5	14	453	struck by flying or falling object	
collapse	4	8	4	3	6	4		4	5	1	5	3		6	1	5	1	2	2	1	4	4	1	74	collapse	
crashed by	43	49	50	48	57	69	73	58	52	61	48	57	53	64	64	53	82	71	71	47	78	61	49	1,358	crashed by	
caught in/between	77	66	81	70	57	58	71	88	70	76	86	76	80	80	76	69	72	84	78	89	75	77	66	1,722	caught in/between	
cut	16	18	15	9	17	16	20	14	12	22	13	14	16	15	14	16	11	12	7	8	10	7	10	312	cut	
injury to the sole of the foot	2	2	1	1			1			2	1		3	1	1					1	1			17	injury to the sole of the foot	
drown	1												15		1			1						18	drown	
contact to high/low-temperature	11	30	16	15	19	25	19	17	27	14	11	26	27	17	17	13	12	17	13	20	18	16	15	415	contact to high/low-temperature	
contact to harmful	1	4	4		4	2		8	3	2	2	1	3	1	2	2				3	1	1	2	1	47	contact to harmful

substance																									substance
electric shock		1			1			1					1											4	electric shock
explosion	1	2		2						1			1				1		1		1		1	11	explosion
burst	3	2	1	2	1	2	2			3	1			1		2					1			21	burst
fire	1	1	1	1		1		1	1			1	2				1			1		1	1	14	fire
traffic accident (public road)	1,215	1,169	1,130	1,002	1,009	982	1,045	994	957	1,015	1,020	1,038	1,056	999	1,110	1,185	1,200	1,198	1,113	1,011	915	727	691	23,781	traffic accident (public road)
traffic accident (others)	8	2	4	4	3	2	5	6	6		2	4	5	5	7	1	9	4	2	6	6	3		94	traffic accident (others)
reaction to motion/improper motion	238	178	225	217	217	263	254	266	271	357	313	294	318	312	305	345	327	339	370	386	381	297	305	6,778	reaction to motion/improper motion
others	81	91	89	110	89	86	84	120	113	145	133	115	129	94	83	76	85	84	100	68	85	128	217	2,405	others
unclassifiable	52	65	43	62	61	52	33	47	41	41	31	24	21	28	37	28	19	34	16	19	7	13	12	786	unclassifiable
total	2,396	2,301	2,366	2,183	2,299	2,303	2,377	2,390	2,296	2,496	2,455	2,492	2,555	2,481	2,594	2,708	2,654	2,702	2,616	2,716	2,489	2,156	2,270	56,295	total

Causal agents (large) of fatal and non-fatal accidents in road passenger transport 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	15	8	16	10	11	9	16	9	11	14	10	7	13	6	9	9	13	7	7	12	6	8	7	233	machine
crane, conveying machine	1,462	1,406	1,374	1,255	1,272	1,248	1,327	1,290	1,235	1,311	1,302	1,344	1,331	1,302	1,393	1,442	1,488	1,481	1,399	1,356	1,230	1,002	960	30,210	crane, conveying machine
other equipment	96	104	92	95	107	117	118	139	128	126	136	151	142	122	166	178	151	156	149	185	179	159	177	3,173	other

																									equipment
temporary buildings, establishments	397	369	434	388	466	460	479	454	448	500	484	487	510	544	510	545	517	550	538	633	566	513	546	11,338	temporary buildings, establishments
substance, material	18	33	31	10	20	20	11	30	20	21	17	19	24	20	12	20	15	7	10	11	11	11	16	407	substance, material
load	46	40	57	56	49	67	45	68	84	69	89	60	68	67	64	72	74	98	75	95	84	46	30	1,503	load
environment	82	64	98	62	82	100	104	97	84	102	88	112	160	135	151	183	109	131	123	174	111	99	108	2,559	environment
others	280	277	264	307	292	282	277	303	286	353	329	312	307	285	289	259	287	272	315	250	302	318	426	6,872	others
total	2,396	2,301	2,366	2,183	2,299	2,303	2,377	2,390	2,296	2,496	2,455	2,492	2,555	2,481	2,594	2,708	2,654	2,702	2,616	2,716	2,489	2,156	2,270	56,295	total

Causal agents (middle) of fatal and non-fatal accidents in road passenger transport 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		1	1	1		3	1	1	1	1			2	1		2	1			1				17	engine
power transmission mechanism	2	2	5	2	4	1	4	1	3	3	3	3	2		5	1	6	1	1	5	3	1	2	60	power transmission mechanism
woodworking machine							1		1	3	1	1	3		1		1			1		3	3	19	woodworking machine
construction machine	2	1	1	1	1	1	3		1	1	1			2	1	1	1	3	1		1			23	construction machine
metal manufacturing machine	2	2	2	1		2	1	2		1	2	1	2			4	2		1				1	26	metal manufacturing machine

general machine	9	2	7	5	6	2	6	5	5	5	3	2	4	3	2	1	2	3	4	5	2	4	1	88	general machine	
mobile silviculture machine																										mobile silviculture machine
crane	4	1	1	2	3	4	1	2	1	2	3	4	1	2	5	4	5	1	1	4	2	2	1	56	crane	
conveying machine	63	70	60	60	62	64	54	50	50	53	53	56	44	57	43	50	63	48	46	57	52	29	44	1,228	conveying machine	
vehicle	1,395	1,335	1,313	1,193	1,207	1,180	1,272	1,238	1,184	1,256	1,246	1,284	1,286	1,243	1,345	1,388	1,420	1,432	1,352	1,295	1,176	971	915	28,926	vehicle	
pressure vessel				2			1			1				1							1			6	pressure vessel	
chemical facilities												1			1	1								3	chemical facilities	
welding equipment	2	3		1						1		1	1	1			1				2			13	welding equipment	
kiln, caldron		1					1											1						3	kiln, caldron	
electric equipment	2	4				1	1			2			3	1	1	1		1		4	1	1		23	electric equipment	
human power machine, tools	13	21	17	19	20	26	28	34	32	24	32	33	38	33	44	51	42	42	35	47	43	47	42	763	human power machine, tools	
tools	68	67	54	63	74	74	75	84	71	72	81	96	81	67	87	105	91	86	98	107	106	91	113	1,911	tools	
other equipments, facilities	11	8	21	10	13	16	12	21	25	26	23	20	19	19	33	20	17	27	15	27	26	20	22	451	other equipments, facilities	
temporary buildings, establishments	397	369	434	388	466	460	479	454	448	500	484	487	510	544	510	545	517	550	538	633	566	513	546	11,338	temporary buildings, establishments	

hazards, harmful substances	3	12	11	3	5	6	2	10	9	3	5	3	6	2	3	1	1	1	3		2	3	1	95	hazards, harmful substances
materials	15	21	20	7	15	14	9	20	11	18	12	16	18	18	9	19	14	6	7	11	9	8	15	312	materials
load	46	40	57	56	49	67	45	68	84	69	89	60	68	67	64	72	74	98	75	95	84	46	30	1,503	load
natural environment	82	64	98	62	82	100	104	97	84	102	88	112	160	135	151	183	109	131	123	174	111	99	108	2,559	natural environment
other causal agent	102	118	108	118	110	125	125	119	120	141	115	106	117	100	108	89	101	111	106	61	87	122	213	2,622	other causal agent
no causal agent	115	99	116	138	126	117	127	140	127	166	184	183	164	168	157	150	168	141	204	177	206	188	207	3,568	no causal agent
unclassifiable	63	60	40	51	56	40	25	44	39	46	30	23	26	17	24	20	18	20	5	12	9	8	6	682	unclassifiable
total	2,396	2,301	2,366	2,183	2,299	2,303	2,377	2,390	2,296	2,496	2,455	2,492	2,555	2,481	2,594	2,708	2,654	2,702	2,616	2,716	2,489	2,156	2,270	56,295	total

Causal agents (small) of fatal and non-fatal accidents in road passenger transport 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			1				1	1	1	1			2	1		2	1			1				12	engine	
power transmission mechanism			5		4		4	1	3	3	3	3	2		5	1	6	1	1	5	3	1	2	53	power transmission mechanism	
circular sawing machine							1		1	1	1				1		1			1				7	circular sawing machine	
band sawing machine																										band sawing machine
wood planer machine																							1	1	wood planer machine	

machine																								machine	
other mobile silviculture machine																								other mobile silviculture machine	
crane							1						1	1					2	1			6	crane	
mobile crane			1		1		1			1	2		1	2	2	1	1							13	mobile crane
derrick crane																									derrick crane
elevator, lift					2			1		1	1	2	1	1	2	1	1		1	1	1	1	1	18	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	1						3			1		1			8	other powered crane
truck			57		60		52	47	49	52	49	54	38	56	41	49	60	46	43	53	45	29	39	919	truck
forklift			1				2	3		1	1	1	4		1		1			2	1		1	19	forklift
railway equipment																									railway equipment
conveyor			1								1				1						1			4	conveyor
loader													1								1			2	loader
straddle carrier																									straddle carrier
rough terrain hauler																									rough terrain hauler
other powered			1		2				1		2	1	1	1		1	2	2	3	2	4		4	27	other powered

conveying machines																									conveying machines	
cars, bus, motorcycle			1,307		1,197		1,267	1,229	1,179	1,251	1,244	1,282	1,284	1,237	1,338	1,385	1,407	1,427	1,341	1,284	1,171	969	912	23,711	cars, bus, motorcycle	
railway vehicle			2				2		1			1	1	2				1		1		1	12		railway vehicle	
other vehicles			4		10		5	7	5	4	2	2	1	5	5	3	13	5	10	11	4	2	2	100	other vehicles	
boiler																					1			1	boiler	
pressure vessel																									pressure vessel	
other pressure vessels							1						1											3	other pressure vessels	
chemical facilities												1			1	1								3	chemical facilities	
gas welding equipment												1		1								1		4	gas welding equipment	
arc welding equipment													1										1		3	arc welding equipment
other welding equipment																										other welding equipment
kiln, caldron							1																		1	kiln, caldron
industrial dryer																										industrial dryer
other kiln, caldron																			1						1	other kiln, caldron
transmission													3	1	1						4	1			10	transmission
electric power facilities																			1						1	electric power facilities
other electrical equipment							1																1		5	other electrical equipment
human power			2		1			1	1		2	2		1	1	3	2	1					1	1	19	human power

cranes																									cranes
human power hauling equipment			3		9		17	23	19	18	28	26	33	25	36	41	37	37	31	41	36	37	34	531	human power hauling equipment
human power machine			1				1	1					1	1	1							2		8	human power machine
hand tool			11		10		10	9	12	6	2	5	4	6	6	7	3	4	4	6	7	7	7	126	hand tool
ladder			42		52		50	59	52	47	62	69	52	40	52	60	54	56	69	75	71	59	76	1,097	ladder
slinging tool										1												1		2	slinging tool
other tools			12		22		25	25	19	24	19	27	29	27	35	45	37	30	29	32	35	31	37	540	other tools
other equipment, facilities			21		13		12	21	25	26	23	20	19	19	33	20	17	27	15	27	26	20	22	406	other equipment, facilities
scaffolding					1		2	2	2	1		2	2	2		1		1					1	17	scaffolding
timbering																									timbering
stairs, landing stage			81		95		99	80	90	96	84	87	70	97	87	103	68	107	88	101	113	103	91	1,740	stairs, landing stage
opening			3		6		4	1	6	3	4	7	3	3	3	3	2	6	2	3	2	2	3	66	opening
roof, beam, haze, crossbeam, principal rafter			1				1	1	1				5	1		1		3	2	1	3	4		24	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			38		35		41	33	29	34	39	43	38	37	30	27	24	30	37	48	22	29	23	637	working platform, boot board
passage			198		192		225	207	192	235	211	199	253	280	241	258	245	244	234	302	260	234	277	4,487	passage
building, establishment			73		86		60	80	83	79	85	91	99	64	99	77	93	85	99	98	81	79	95	1,606	building, establishment
other temporary buildings, establishments			40		51		47	50	45	52	61	58	40	60	50	75	85	74	76	80	85	62	56	1,147	other temporary buildings, establishments

explosive substance																								explosive substance	
inflammable substance			2					2	1		1	1		1			1						9	inflammable substance	
inflammable gas			2				1	1		2		1			1								8	inflammable gas	
harmful substance			3		1			1	1		1	2						1					10	harmful substance	
radiation																								radiation	
other hazards, harmful substances			4		4		2	9	5	1	3	1	2	2	2		1		2		2	3	1	44	other hazards, harmful substances
metal material			10		7		5	8	2	5	6	8	9	10	1	8	5	3	3	3	3	3	5	104	metal material
lumber, bamboo			2			2	3	1		2	2	1	1	1	3	1	1		2	2		1	25	lumber, bamboo	
stone, sand, substance			4		2				2	6	1		1	1	2	1		1	1	3	3		1	29	stone, sand, substance
other materials			4		6		2	9	6	7	3	6	7	6	5	7	8	1	3	3	1	5	8	97	other materials
load			55		46		43	64	79	66	78	56	64	63	59	69	73	95	73	93	84	41	28	1,229	load
machine/equipment as load			2		3		2	4	5	3	11	4	4	4	5	3	1	3	2	2		5	2	65	machine/equipment as load
natural ground, rock			1		2		6	10	2	3	1	3	3	3	2	2	5	1	7	7	4	3	1	66	natural ground, rock
standing tree			3		2			1	1	1	3	1	7	1	2	1	1			1	2	2	3	32	standing tree
water			2		1		2	5	4	5		1	30			1	3	5	1	2	1	4		67	water
abnormal environment			2								1		1	4	1			1			1			11	abnormal environment
high/cold temperature environment			14		4		3	2	5	6		6	6	6	7	6	3	6	5	9	9	7	6	110	high/cold temperature environment

other environments			76		73		93	79	72	87	83	101	113	121	139	173	97	118	110	155	94	83	98	1,965	other environments
other causal agent			108		110		125	119	120	141	115	106	117	100	108	89	101	111	106	61	87	122	213	2,159	other causal agent
no causal agent			116		126		127	140	127	166	184	183	164	168	157	150	168	141	204	177	206	188	207	3,099	no causal agent
unclassifiable			40		56		25	44	39	46	30	23	26	17	24	20	18	20	5	12	9	8	6	468	unclassifiable
total			2,366		2,299		2,377	2,390	2,296	2,496	2,455	2,492	2,555	2,481	2,594	2,708	2,654	2,702	2,616	2,716	2,489	2,156	2,270	47,112	total

Workers age of fatal and non-fatal accidents in road passenger transport 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	18	13	19	16	16	9	13	13	7	9	4	6	9	8	12	10	8	15	6	8	1	4	5	229	19 years old or less
20-29	174	152	131	112	112	105	98	87	62	65	48	62	56	52	48	46	56	52	57	57	65	76	42	1,815	20-29
30-39	309	293	310	305	339	341	329	364	340	318	300	303	278	243	238	219	203	199	151	163	149	128	101	5,923	30-39
40-49	551	464	462	456	433	458	461	513	523	589	562	574	610	606	654	664	627	581	538	529	493	407	404	12,159	40-49
50-59	1,071	1,109	1,116	947	1,031	947	990	932	830	857	816	749	761	706	746	829	855	884	880	919	771	680	761	20,187	50-59
60 years old or more	273	270	328	347	368	443	486	481	534	658	725	798	841	866	896	940	905	971	984	1,040	1,010	861	957	15,982	60 years old or more
total	2,396	2,301	2,366	2,183	2,299	2,303	2,377	2,390	2,296	2,496	2,455	2,492	2,555	2,481	2,594	2,708	2,654	2,702	2,616	2,716	2,489	2,156	2,270	56,295	total

Workers' number of workplace of fatal and non-fatal accidents in road passenger transport 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	80	67	60	52	65	74	52	58	60	70	57	68	65	59	62	54	61	54	73	80	68	50	61	1,450	9 workers or less
10-29	125	121	106	141	120	135	145	136	135	163	124	137	162	152	142	143	159	161	173	177	151	133	143	3,284	10-29
30-49	147	162	157	145	164	142	166	186	163	192	183	186	183	206	178	195	179	185	176	230	191	178	209	4,103	30-49

load																									load	
natural environment										1		1	28	1									1		32	natural environment
other causal agent	1	2		3	1	1	3		3	1	1	1	1	1								2	11	32	other causal agent	
no causal agent		1		1			1	1		1	3	2	1	1		3	2			1	1	1		20	no causal agent	
unclassifiable	1				1	1	1	1			1		2	1			1			1				11	unclassifiable	
total	24	24	21	30	25	23	23	16	19	21	12	13	41	10	12	15	15	13	7	9	12	6	18	409	total	

Causal agents (small) of fatal accidents in road passenger transport 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																										power transmission mechanism
circular sawing machine																										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 machine

January	1	5		2	1	3	2		2	3	2	1	3		1	3	2	3					3	37	January
February	5	3			3	2	2	2	1	2	1		1			3	4	1	1	2		1	1	35	February
March	3	4	2	3	2	1	5	3	3	3	2	1	28	2	1	2	2	2	1	2	2	1	1	76	March
April	2	2	4			5	1		3	3	1		1			1		1	1	1	1	2	2	31	April
May	1	1	2	2	4	3	3	1		2		3			1			1	1		2		6	33	May
June	1	2	1	4	2				1	1		3	1	3		1	2	1			1		2	26	June
July	4	2	3	5	2	3	2		4	1	3		1	1	1		1			1	1		2	37	July
August	1		2	2	5	3		1	1	1		2	2	1	2	1					1		1	26	August
September	1		1	2			1	1	2	1		1	4		2	1	2	1		1		1		22	September
October	1	2	3	1	2		3	2		1	1			2	1	2	1	2	1	1		1		27	October
November	2	1	3	5	2	1		2			1				1	1					2			21	November
December	2	2		4	2	2	4	4	2	3	1	2		1	2		1	1	2	1	2			38	December
total	24	24	21	30	25	23	23	16	19	21	12	13	41	10	12	15	15	13	7	9	12	6	18	409	total

Prefecture of fatal accidents in road passenger transport 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	4	4	3	3	1	3	2	4	3	2	1	1	1	1	1	1	2		1		2	1	1	42	Hokkaido
Aomori					1												1							2	Aomori
Iwate		1	1							1		1	12									1	1	18	Iwate
Miyagi						3			2			2	15			2								24	Miyagi
Akita							1										1		1					3	Akita
Yamagata				1																				1	Yamagata
Fukushima			1	1					1		1		1								1			6	Fukushima
Ibaraki		1		1		2	1					1					1	1					1	9	Ibaraki

Tochigi		1	1				1	1						1			1	1	1			1	9	Tochigi	
Gunma			1																				1	Gunma	
Saitama	1				2		1	1	1	1	1												8	Saitama	
Chiba	1					2	1											1		1			6	Chiba	
Tokyo	2	3	3	4	1	1	2	2				1	3	2	1	3		3		2	3	1	2	39	Tokyo
Kanagawa	1		3	3		1		2	2	1	1	2	1		1			2			1			21	Kanagawa
Niigata		1									1													2	Niigata
Toyama	2				1									1										4	Toyama
Ishikawa				1						1														2	Ishikawa
Fukui										1														1	Fukui
Yamanashi					1																			1	Yamanashi
Nagano						1											1			1		1		4	Nagano
Gifu					1	1	1	1		2						1							1	8	Gifu
Shizuoka	1			1	2		1			1						1								7	Shizuoka
Aichi	2	2	2	3		1	1	1	2	1	1		1				1							18	Aichi
Mie		2								1										1		1		5	Mie
Shiga	1																					1		2	Shiga
Kyoto	1	1	1	2		1	1				1			1	1		2		1		1			14	Kyoto
Osaka	1	4	1		1	2	3		1		2		1		2	2	1	3		1	1		5	31	Osaka
Hyogo	2					1	1		1	2		1	1										1	10	Hyogo
Nara							1																	1	Nara
Wakayama		1															1							2	Wakayama
Tottori			1				1			1	1													4	Tottori
Shimane														1										1	Shimane

Okayama	1													1										2	Okayama			
Hiroshima			1	2		2	1		1				2		2		1			1				1	14	Hiroshima		
Yamaguchi						1			1																2	Yamaguchi		
Tokushima				1					1			1												1		4	Tokushima	
Kagawa			1	1	1									1		1		1								6	Kagawa	
Ehime											2															2	Ehime	
Kochi									1				1			1		1								4	Kochi	
Fukuoka	2			5	6	1	2				2			1	1			1						1	3	25	Fukuoka	
Saga	1													1												2	Saga	
Nagasaki			1		1											2											4	Nagasaki
Kumamoto		1			1			1	2		1	1	1												1		9	Kumamoto
Oita					2						1	1	1		1												6	Oita
Miyazaki								1				1		1		1	1	1	1		1						8	Miyazaki
Kagoshima	1	1		1	1		1	1		1						1											8	Kagoshima
Okinawa		1			2			1							1	1							1				7	Okinawa
total	24	24	21	30	25	23	23	16	19	21	12	13	41	10	12	15	15	13	7	9	12	6	18	409	total			

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

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