bus service industry Code No.040202

Type of accidents in bus 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	92	84	78	90	103	96	88	105	100	106	92	126	77	82	89	96	86	111	92	113	101	81	82	2,170	fall from height
falling to same level	149	124	170	155	164	168	187	172	174	160	171	176	211	223	219	238	185	197	220	260	234	211	234	4,402	falling to same level
crash	36	34	43	39	46	42	47	62	49	51	46	64	53	49	55	59	57	67	57	82	52	57	54	1,201	crash
struck by flying or falling object	17	19	20	10	8	16	8	14	13	9	15	10	16	12	17	5	18	11	6	9	7	3	8	271	struck by flying or falling object
collapse	4	6	3	2	3	2			3	1	4	3		3	1	3		1	2	1	3	2	1	48	collapse
crashed by	10	15	21	13	16	19	28	18	18	22	14	19	21	19	28	24	22	21	28	25	29	14	14	458	crashed by
caught in/between	34	32	36	34	31	29	38	39	32	29	39	32	46	33	33	35	29	43	39	41	41	38	32	815	caught in/between
cut	4	10		3	8	7	8	7	8	10	7	8	3	6	10	9	4	5	2	3	8	4	6	140	cut
injury to the sole of the foot	1												1	1							1			4	injury to the sole
drown													3		1									4	drown
contact to high/low- temperature	9	21	9	9	14	14	15	16	19	11	9	19	17	15	12	10	9	14	8	12	14	15	9	300	contact to high/low- temperature

contact to harmful	1	4	1		2	2		1	2	2	2	1	3	1	2	1			3	1	1	1		32	contact to
substance		7				_			2	2										'				32	substance
electric shock		1											1											2	electric shock
explosion	1												1				1				1		1	5	explosion
burst		2		1	1	2	1			3	1			1		2					1			15	burst
fire									1				1				1							3	fire
traffic accident (public	89	120	104	109	118	129	149	122	156	153	141	165	163	170	164	209	204	209	179	163	174	125	132	3,447	traffic accident
road)	09	120	104	109	110	129	149	122	130	133	141	103	103	170	104	209	204	209	179	103	1/4	123	132	3,447	(public road)
traffic accident	1	1	2		2	1	1	1	5		1		2	2	1			1	1	1	1	1		25	traffic accident
(others)																									(others)
reaction to																									reaction to
motion/improper	96	60	90	99	89	136	124	131	126	173	157	142	164	165	169	173	178	194	183	205	191	140	167	3,352	motion/improper
motion																									motion
others	17	14	12	15	15	18	16	31	24	25	18	12	29	18	19	24	20	6	26	26	23	26	62	496	others
unclassifiable	7	4	6	15	6	13	4	4	5	10	6	7	2	6	7	6	4	5	3	5	3	6	1	135	unclassifiable
total	568	551	595	594	627	694	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	17,325	total

Causal agents (large) of fatal and non-fatal accidents in bus 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	II .	Causal (L) agents
machine	7	7	8	9	8	6	11	5	6	10	6	4	8	4	8	3	10	5	1	9	4	5	6	150	machine
crane, conveying																									crane,

machine	227	257	239	261	275	291	320	297	313	332	309	347	341	349	335	381	358	364	354	380	362	278	279	7,249	conveying
machine																									machine
ath or agricument	55	58	58	46	53	73	74	84	75	84	84	100	77	76	106	117	96	112	98	115	112	87	90	1,931	other
other equipment	33	56	56	40	33	/3	/4	04	/3	04	04	100	//	76	100	117	90	112	90	113	113	07	90	1,951	equipment
to manage my buildings																									temporary
temporary buildings, establishments	143	125	158	152	154	159	167	166	172	163	163	168	186	212	197	213	182	228	202	236	218	197	216	4,177	buildings,
establistifferits																									establishments
substance, material	12	15	18	5	12	13	6	14	15	12	10	12	11	9	10	12	7	3	7	5	5	6	10	229	substance,
substance, material	12		10	5	12	13	0	14	13	12		12	11			12		3		J	J		10	229	material
load	19	15	24	19	16	29	18	24	32	25	31	19	29	22	24	25	32	36	26	30	28	7	11	541	load
environment	26	26	25	25	25	32	28	36	26	31	22	36	57	41	45	54	31	49	46	71	43	41	36	852	environment
others	79	48	65	77	84	91	90	97	96	108	98	98	105	93	102	89	102	88	115	101	112	103	155	2,196	others
total	568	551	595	594	627	694	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	17,325	total

Causal agents (middle) of fatal and non-fatal accidents in bus 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		2	1	1	1	1			1							1				10	engine
power transmission mechanism	1	2	4	2	4		3		2	3	2	2	1		5		5	1	1	5	3	1	2	49	power transmission mechanism
woodworking machine							1		1	2	1		2		1					1		2	2	13	woodworking machine
																									construction

construction machine	1	1	1	1			1				1			2	1	1	1	2						13	machine
metal manufacturing machine	1	2		1		2	1	1		1	1	1	1			2	2						1	17	metal manufacturing machine
general machine	4	1	3	4	4	2	4	3	2	3	1	1	3	2	1		2	2		2	1	2	1	48	general machine
mobile silviculture machine																									mobile silviculture machine
crane	1		1		1	1	1	1				2	1		2	2	2		1	1				17	crane
conveying machine	23	23	21	22	21	25	15	15	23	16	21	22	21	20	18	27	30	14	19	25	23	10	21	475	conveying machine
vehicle	203	234	217	239	253	265	304	281	290	316	288	323	319	329	315	352	326	350	334	354	339	268	258	6,757	vehicle
pressure vessel							1			1											1			3	pressure vessel
chemical facilities												1			1	1								3	chemical facilities
welding equipment	2	2										1	1	1							1			8	welding equipment
kiln, caldron							1																	1	kiln, caldron
electric equipment	1	2				1	1			1			2	1		1		1		1		1		13	electric equipment
human power machine,	5	10	8	8	6	13	13	16	19	11	14	15	18	18	35	25	30	32	20	31	26	29	21	423	human power machine, tools
tools	45	40	38	35	38	50	52	55	39	57	57	70	48	44	55	76	56	62	68	72	66	46	58	1,227	tools

other equipments,																									other
facilities	2	4	12	3	9	9	6	13	17	14	13	13	8	12	15	14	10	17	10	11	19	11	11	253	equipments,
lucinicis																									facilities
tompount buildings																									temporary
temporary buildings, establishments	143	125	158	152	154	159	167	166	172	163	163	168	186	212	197	213	182	228	202	236	218	197	216	4,177	buildings,
establishments																									establishments
haranda hamaƙal																									hazards,
hazards, harmful	2	6	4	1	3	3	2	3	7	3	5	1	6	2	3		1	1	3		1	2	1	60	harmful
substances																									substances
materials	10	9	14	4	9	10	4	11	8	9	5	11	5	7	7	12	6	2	4	5	4	4	9	169	materials
load	19	15	24	19	16	29	18	24	32	25	31	19	29	22	24	25	32	36	26	30	28	7	11	541	load
	26	26	25	25	25		20	26	26		22	26		4.1	4.5			40	4.5	7.	42	4.1	26	052	natural
natural environment	26	26	25	25	25	32	28	36	26	31	22	36	57	41	45	54	31	49	46	71	43	41	36	852	environment
-4h	21	20	20	25	27	20	27	27	45	20	21	17	20	27	24	24		20	40	24	25	20	74	772	other causal
other causal agent	31	20	28	25	27	39	37	37	45	39	31	17	29	27	34	34	32	38	40	24	35	30	74	773	agent
	20	22	22	45	4.4	41	F0	F 2	47	F2	63	76	72	63	C.F.	F2	C.F.	16	7.5	75	72	60	00	1 206	no causal
no causal agent	38	22	32	45	44	41	50	52	47	53	63	76	72	62	65	52	65	46	75	75	72	69	80	1,296	agent
unclassifiable	10	6	5	7	13	11	3	8	4	16	4	5	4	4	3	3	5	4		2	5	4	1	127	unclassifiable
total	568	551	595	594	627	694	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	17,325	total

Causal agents (small) of fatal and non-fatal accidents in bus 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							1				6	engine

power transmission		4	4	3	2	3	2	2	1		5		5	1	1	5	3	1	2	44	power transmission
mechanism																					mechanism
circular sawing				1	1		1				1					1				5	circular sawing
machine				ľ			'				•					<u> </u>				110	machine
band sawing																					band sawing
machine																					machine
wood planer																					wood planer
machine																			ľ		machine
hollow chisel																					hollow chisel
mortiser, wood																		1		1	mortiser, wood
borer																					borer
chamfering																					chamfering
machine, router,																					machine, router,
woodworking																					woodworking
milling machine																					milling machine
chain saw									1									1	1	3	chain saw
other woodworking									_												other woodworking
machines						2			ľ											3	machines
leveling,																					leveling,
transporting or				1						1	1		1	1						5	transporting or
loading machine																					loading machine
excavating machine										1		1								2	excavating machine
foundation work																					foundation work
machine																					machine
hardening machine		1																		1	hardening machine

demolition machine																		demolition machine
vehicle for high lift work													1				1	vehicle for high lift work
other construction machines							1										1	other construction machines
lathe																		lathe
drill press, milling machine								1				1					2	drill press, milling machine
grinding machine, buffing machine							1		1		1					1	4	grinding machine, buffing machine
power press					1												1	power press
forging pressure																		forging pressure
shearing machine																		shearing machine
other metal manufacturing machines				1		1					1	1					4	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

food manufacturing																						food manufacturing
machine																						machine
printing machine																						printing machine
industrial robot																						industrial robot
other general		3	4	4	3	2	3	1	1	3	2	1		2	2		2	1	2	1	37	other general
power machines																						power machines
felling machine																						felling machine
mobile logging																						mobile logging
machine																						machine
skyline yarding																						skyline yarding
machine																						machine
other mobile																						other mobile
silviculture machine																						silviculture machine
crane												1	1				1				3	crane
mobile crane		1	1	1					2				1								6	mobile crane
derrick crane																						derrick crane
elevator, lift					1					1		1				1					4	elevator, lift
cargo lifting																						cargo lifting
appliance																						appliance
gondola																						gondola
lumberyard																						lumberyard
equipment, logging																						equipment, logging
cableway																						cableway
simple skyline																						simple skyline

yarding equipment																						yarding equipment
other powered crane														2							2	other powered crane
truck		18	19	15	15	22	15	20	20	18	19	18	26	27	12	16	24	19	10	18	351	truck
forklift		1					1		1	2				1				1			7	forklift
railway equipment																						railway equipment
conveyor		1																1			2	conveyor
loader										1								1			2	loader
straddle carrier																						straddle carrier
rough terrain hauler																						rough terrain hauler
other powered conveying machines		1	2			1		1	1		1		1	2	2	3	1	1		3	20	other powered conveying machines
cars, bus, motorcycle		216	249	303	276	285	313	288	321	319	327	312	349	318	346	329	346	336	268	257	5,758	cars, bus, motorcycle
railway vehicle		1			1						1	2									5	railway vehicle
other vehicles			4	1	4	5	3		2		1	1	3	8	4	5	8	3		1	53	other vehicles
boiler																		1			1	boiler
pressure vessel																						pressure vessel
other pressure vessels				1			1														2	other pressure vessels
chemical facilities									1			1	1								3	chemical facilities
gas welding equipment									1		1										2	gas welding equipment
arc welding																						arc welding

equipment										1								1			2	equipment
other welding																						other welding
equipment																						equipment
kiln, caldron				1																	1	kiln, caldron
industrial dryer																						industrial dryer
other kiln, caldron																						other kiln, caldron
transmission										2	1						1				4	transmission
electric power															1						1	electric power
facilities																						facilities
other electrical				1			1						1						1		4	other electrical
equipment				•																		equipment
human power			1		1	1		2	1						1						7	human power
cranes																						cranes
human power		1	1	8	10	9	7	11	10	15	13	29	20	29	28	17	26	21	24	17	296	human power
hauling equipment																						hauling equipment
human power				1						1		1							1		4	human power
machine				•						•												machine
hand tool		7	4	4	5	9	4	1	4	2	5	5	5	1	3	3	5	5	4	4	80	hand tool
ladder		28	30	35	41	32	40	47	55	36	29	35	45	35	42	49	50	50	32	37	748	ladder
slinging tool							1												1		2	slinging tool
other tools		10	8	17	14	7	16	10	15	12	15	20	31	21	20	19	22	16	13	21	307	other tools
other equipment,		12	9	6	13	17	14	13	12	8	12	15	14	10	17	10	11	19	11	11	235	other equipment,
facilities		12	ב	0	13	17	14	13	13	0	12	13	14	10	17	10	11	19	11		255	facilities
scaffolding				1	1	1	1		2	1	1				1					1	10	scaffolding

					<u> </u>					<u> </u>	<u> </u>	<u> </u>					<u> </u>		<u> </u>		<u> </u>	
timbering																						timbering
stairs, landing stage		27	30	36	22	33	29	31	25	21	40	35	45	25	47	36	44	40	33	30	629	stairs, landing stage
opening		3	2		1	4	2	1	6	3	2	2	3	1	3	1	2	1	2	1	40	opening
roof, beam, haze, crossbeam, principal rafter		1				1				3									3		8	roof, beam, haze, crossbeam, principal rafter
working platform, boot board		12	14	17	7	14	13	18	16	14	14	13	11	13	16	21	16	8	8	13	258	working platform, boot board
passage		74	61	80	85	71	74	64	66	92	109	101	108	92	98	84	112	105	102	115	1,693	passage
building, establishment		24	30	20	28	34	28	34	30	34	26	31	20	28	31	33	38	27	24	35	555	building, establishment
other temporary buildings, establishments		17	17	13	22	14	16	15	23	18	20	15	26	23	32	27	24	37	25	21	405	other temporary buildings, establishments
explosive substance																						explosive substance
inflammable substance		1				2	1			1		1			1						7	inflammable substance
inflammable gas					1	1		2		1											5	inflammable gas
harmful substance		1	1				1		1	2						1					7	harmful substance
radiation																						radiation
other hazards, harmful substances		2	2	2	2	4	1	3		2	2	2		1		2		1	2	1	29	other hazards, harmful substances
metal material		6	5	2	6	1	3	4	4	3	5	1	5	3	1	2	2	2	2	4	61	metal material
lumber, bamboo		2		1	2			1	2	1		1	1	1	1		2	1		1	17	lumber, bamboo

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stone, sand, substance	3	3		1				1	3					2	1			1	1	1			14	stone, sand, substance
other materials	3	3		3		1	3	6	3		5	1	2	3	5	2		1			2	4	44	other materials
load		23		14		18	22	31	23	24	18	26	22	21	24	31	35	25	28	28	6	10	429	load
machine/equipment as load		1		2			2	1	2	7	1	3		3	1	1	1	1	2		1	1	30	machine/equipment as load
natural ground, rock				1		3	5	1	2			1	2	1	1	2	1	3	2	2	1	1	29	natural ground, rock
standing tree	3	3		1			1	1				4		1							1	1	13	standing tree
water				1		1		1	3			6			1	1	3			1	3		21	water
abnormal environment	1	1											2				1			1			5	abnormal environment
high/cold temperature environment	3	3		3		1	2	1	3		4	4	3	5	3	3	5	2	4	7	6	3	62	high/cold temperature environment
other environments	1	18		19		23	28	22	23	22	32	42	34	38	49	25	39	41	65	32	30	31	613	other environments
other causal agent	2	28		27		37	37	45	39	31	17	29	27	34	34	32	38	40	24	35	30	74	658	other causal agent
no causal agent	3	32		44		50	52	47	53	63	76	72	62	65	52	65	46	75	75	72	69	80	1,150	no causal agent
unclassifiable	5	5		13		3	8	4	16	4	5	4	4	3	3	5	4		2	5	4	1	93	unclassifiable
total	5	595		627		714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	14,918	total

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

	1000	000 20	200	2 2002	2004	2005	2006 20	200	2000	2010	2011	2012	2012	2014	2015	2016	2017	2010	2010	2020	2021			
Age	1999 2	000 20	001 200	2 2003	2004	2005	2006 20	007 200	8 2009	/ () ()	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	totai	Age	

19 years old or less	15	12	16	11	15	5	11	10	6	7	2	4	7	7	10	6	3	9	4	6	1	3	4	174	19 years old or less
20-29	109	98	86	71	67	71	70	64	41	46	32	42	35	37	29	33	33	35	25	32	32	39	15	1,142	20-29
30-39	137	129	165	153	168	174	186	199	199	164	165	168	168	152	141	144	116	107	82	91	83	65	50	3,206	30-39
40-49	132	130	127	151	166	191	199	237	247	300	245	290	301	314	299	323	284	283	265	287	261	194	219	5,445	40-49
50-59	153	160	160	172	171	182	188	165	181	172	202	194	220	188	236	286	268	325	315	369	323	290	349	5,269	50-59
60 years old or more	22	22	41	36	40	71	60	48	61	76	77	86	83	108	112	102	114	126	158	162	185	133	166	2,089	60 years old or more
total	568	551	595	594	627	694	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	17,325	total

Workers' number of workplace of fatal and non-fatal accidents in bus 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	23	26	23	16	26	31	24	20	18	27	23	15	24	17	28	22	23	19	31	31	32	14	15	528	9 workers or less
10-29	27	31	21	45	29	51	39	49	42	58	31	42	43	44	47	52	63	71	63	67	60	43	33	1,051	10-29
30-49	39	47	33	34	39	36	53	55	44	55	57	63	57	58	44	53	52	67	63	71	61	63	62	1,206	30-49
50-99	129	125	143	142	161	135	168	148	141	150	130	159	167	161	155	171	153	184	161	193	154	127	143	3,500	50-99
100-299	288	268	314	297	339	388	381	417	463	445	442	473	482	466	504	552	474	491	476	513	510	425	500	9,908	100-299
300 workers or	62	54	61	60	33	53	49	34	27	30	40	32	41	60	49	44	53	53	55	72	68	52	50	1,132	300 workers or
more																									more
total	568	551	595	594	627	694	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	17,325	total

Month of fatal and non-fatal accidents in bus service in 1999-2021

January	64	49	68	69	66	79	63	105	68	71	93	99	108	100	108	113	94	105	95	126	84	73	104	2,004	January
February	61	62	69	55	63	63	62	75	70	79	57	80	72	93	85	113	79	73	83	92	70	65	75	1,696	February
March	44	42	48	46	53	54	61	60	52	60	62	84	65	50	53	67	66	77	55	81	93	61	69	1,403	March
April	36	37	42	42	53	47	44	46	63	57	57	54	71	58	67	53	63	71	60	85	70	50	45	1,271	April
May	41	35	47	41	46	56	57	47	67	41	67	54	63	68	60	57	65	54	57	61	77	54	56	1,271	May
June	45	46	47	51	46	52	72	65	52	66	44	65	53	61	56	65	57	68	71	74	70	61	59	1,346	June
July	43	53	44	48	47	51	55	56	53	69	47	53	63	58	61	61	85	60	72	75	65	61	67	1,347	July
August	36	45	46	43	39	55	59	52	64	56	54	61	57	69	77	70	51	69	65	65	75	61	56	1,325	August
September	46	47	44	47	57	60	55	51	56	60	40	48	72	73	59	68	59	72	72	76	49	49	58	1,318	September
October	49	45	36	47	59	56	48	64	67	76	56	63	56	50	62	74	72	72	71	71	84	54	62	1,394	October
November	45	48	57	49	48	64	56	47	70	53	65	62	55	61	78	67	63	86	64	66	71	52	75	1,402	November
December	58	42	47	56	50	57	82	55	53	77	81	61	79	65	61	86	64	78	84	75	77	83	77	1,548	December
total	568	551	595	594	627	694	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	17,325	total

Prefecture of fatal and non-fatal accidents in bus 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	59	62	60		58		56	57	56	54	54	58	65	64	64	73	61	68	83	75	63	41	49	1,280	Hokkaido
Aomori	13	9	10		15		16	7	13	10	8	11	9	11	8	4	9	8	12	8	9	4	8	202	Aomori
lwate	5	11	7		4		8	8	5	6	5	9	7	9	6	9	5	3	3	6	7	6	6	135	lwate
Miyagi	6	9	14		18		15	12	14	15	14	16	24	20	19	17	13	15	12	11	24	16	23	327	Miyagi
Akita	4	5	2		6		2	6	7	4	2	7	5	4	5	5	6	7	2	4	2	3	7	95	Akita
Yamagata	6	3	4		2		2	1	1	6	1	1	1	3	2	2	1	3	2	1	1	7	2	52	Yamagata

Fukushima	8	7	10	5	10	6	7	4	4	3	5	9	14	11	7	9	14	14	8	8	10	173	Fukushima
Ibaraki	14	26	21	5	12	20	19	16	24	15	18	17	21	21	22	17	15	25	17	20	10	375	Ibaraki
Tochigi	6	4	6	10	2	5	9	2	6	4	7	9	8	8	6	2	10	5	10	7	6	132	Tochigi
Gunma	6	4	10	5	5	5	11	4	3	4	3	2	5	14	5	12	5	4	9	7	5	128	Gunma
Saitama	15	16	14	9	14	23	20	21	19	30	27	30	30	37	22	29	43	23	37	34	45	538	Saitama
Chiba	14	16	22	17	30	24	28	39	37	33	42	28	31	45	41	39	30	38	49	43	53	699	Chiba
Tokyo	57	62	65	70	83	93	112	98	103	100	98	102	108	101	112	123	114	139	128	92	94	2,054	Tokyo
Kanagawa	52	37	61	42	70	67	91	84	78	103	111	113	122	143	122	132	125	129	130	119	122	2,053	Kanagawa
Niigata	6	16	9	14	13	16	12	19	12	19	3	16	14	13	9	13	17	12	7	8	8	256	Niigata
Toyama	6	2	2		4	4	1	3	2	6	4	5	6	5	3	2	2	4	6	1	2	70	Toyama
Ishikawa	1	3	1	4	4	7	4	2	2	1	4	7	3	2	3	2	3	9	4	4	2	72	Ishikawa
Fukui	2	1	3	4	1	1		1	3	1	2	5	3	3	3	2	4			3	3	45	Fukui
Yamanashi	5	1	1	3	5	1	2	2	2	2		3	3	3	2	2	2	4	4	2	1	50	Yamanashi
Nagano	8	7	13	18	12	12	15	11	18	18	9	12	12	16	11	17	6	16	10	10	14	265	Nagano
Gifu	6	7	3	10	15	15	3	7	7	7	6	7	6	9	4	9	7	15	8	7	8	166	Gifu
Shizuoka	13	7	10	9	18	12	15	15	9	18	8	21	17	12	16	21	10	19	12	16	16	294	Shizuoka
Aichi	17	20	16	23	18	15	21	28	27	17	26	32	23	18	35	23	30	31	32	24	25	501	Aichi
Mie	4	4	3	6	1	6	2	3	5	8	7	8	6	5	4	4	3	7	7	12	3	108	Mie
Shiga	1	1	1	6	5	4	2	7	6	4	9	4	7	6	11	5	5	5	5	5	3	102	Shiga
Kyoto	34	27	25	34	26	27	37	32	30	31	33	23	32	21	39	38	30	35	31	20	23	628	Kyoto
Osaka	62	51	56	70	77	72	64	71	73	62	82	57	60	73	60	62	59	81	64	46	67	1,369	Osaka
Hyogo	19	19	22	19	31	34	32	25	16	29	32	31	29	27	31	44	35	39	35	34	28	611	Hyogo
Nara	11	12	14	13	17	16	4	8	11	5	13	12	10	11	10	14	11	16	16	9	4	237	Nara

Wakayama	6	13	4	3	3	5	3	4	3	5	5	8	3	5	2	5	6	5	5	2	3	98	Wakayama
Tottori		2	2	1	1	1	4	6	2	1	3	4	6	1	1		2	3	2	5	2	49	Tottori
Shimane	1	6	5	2	1	1	2	4	1	1	4	6	4	3	2	5	4	2	2		8	64	Shimane
Okayama	13	10	3	8	13	8	8	12	8	9	6	7	5	10	5	4	4	9	5	6	11	164	Okayama
Hiroshima	16	12	12	13	12	16	9	10	20	15	11	6	15	14	18	12	20	11	13	16	27	298	Hiroshima
Yamaguchi	5	1	6	7	7	3	2	9	5	8	7	5	8	8	10	2	3	8	7	5	5	121	Yamaguchi
Tokushima	5	3	4	3	2	3	1		3	4	2	5	3	3	3	1	4	3	5	4	3	64	Tokushima
Kagawa	1	8	4	3	4	2	3	5	2	4	2	6	4	2	2	4	5	4	5	4	2	76	Kagawa
Ehime	5	2	3	4	6	8	4	3	2	2	3	7	7	6	5	2	7	8	6	3	3	96	Ehime
Kochi	4	5	6	2	3	7	5	3	6	5	4	7	3	5	5	3	9	6	2	3	2	95	Kochi
Fukuoka	14	7	14	21	28	32	44	55	50	46	44	35	44	45	40	48	43	51	34	26	50	771	Fukuoka
Saga	5	5	3	6	3	6	4	10	3	10	12	5	2	4	4	6	4	4	5	3	7	111	Saga
Nagasaki	4	3	5	11	6	9	4	13	10	14	15	13	16	15	16	15	11	17	15	15	13	240	Nagasaki
Kumamoto	1	2	2	9	14	8	13	9	5	13	7	6	6	9	10	9	6	9	7	2	3	150	Kumamoto
Oita	12	3	9	10	11	11	8	7	8	4	13	7	7	11	8	4	5	8	17	9	4	176	Oita
Miyazaki	3	6	5	4	6	4	3	6	4	4		1	4	11	3	11	6	7	7	3	1	99	Miyazaki
Kagoshima	7	4	17	12	9	9	7	8	8	9	11	9	10	18	6	18	6	10	3	7	8	196	Kagoshima
Okinawa	6	10	6	9	13	14	4	4	2	8	5	5	6	10	5	11	10	7	10	3	4	152	Okinawa
total	568	551	595	627	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	16,037	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

Fatal accidents in bus service in Japan in 1999-2021

bus service industry Code No.040202

Type of fatal accidents in bus 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			1						1						1		1	1	1				1	7	fall from height
falling to same level						1				1														2	falling to same level
crash																									crash
struck by flying or falling object																									struck by flying or falling object
collapse																									collapse
crashed by																1						1		2	crashed by
caught in/between	1		1		1		1									1			1	1		1		8	caught in/between
cut																									cut
injury to the sole of the																									injury to the sole of the foot
drown													3											3	drown

contact to high/low-																									contact to
temperature																					1			1	high/low-
																									temperature
contact to harmful																									contact to
											1													1	harmful
substance																									substance
electric shock													1											1	electric shock
explosion																									explosion
burst																									burst
fire																									fire
traffic accident (public	_						2										1			1	1		1	20	traffic accident
road)	2	4	2	3	3	2	2			3				I	I	4	1	4	3	1	I			38	(public road)
traffic accident (others)																									traffic accident
trainc accident (others)																									(others)
reaction to																									reaction to
motion/improper																									motion/improper
motion																									motion
others							1	1				1	2	1		1					1			8	others
unclassifiable																									unclassifiable
total	3	4	4	3	4	3	4	1	1	4	1	1	6	2	2	7	2	5	5	2	3	2	2	71	total

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

																									Causal (L)	
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		

																									agents
machine																									machine
crane, conveying machine	3	4	3	3	4	2	3			3				1	2	6	1	4	4	2	1	1	2	49	crane, conveying machine
other equipment			1						1				1				1				1			5	other equipment
temporary buildings, establishments						1												1	1					3	temporary buildings, establishments
substance, material											1													1	substance, material
load																									load
environment										1			4									1		6	environment
others							1	1				1	1	1		1					1			7	others
total	3	4	4	3	4	3	4	1	1	4	1	1	6	2	2	7	2	5	5	2	3	2	2	71	total

Causal agents (middle) of fatal accidents in bus 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																									power transmission mechanism

																							woodworking
woodworking machine																							machine
																							construction
construction machine																							machine
																							metal
metal manufacturing machine																							manufacturing
machine																							machine
general machine																							general
general machine																							machine
mobile silviculture																							mobile
machine																							silviculture
																							machine
crane																							crane
conveying machine	1	1	1	1					2				1	1	1	2					1	12	conveying
	1																						machine
vehicle	2	3	2	2	4	2	3		1			1	1	5		2	4	2	1	1	1	37	vehicle
pressure vessel																							pressure vessel
chemical facilities																							chemical
Chemical facilities																							facilities
welding equipment																			1			1	welding
Treating equipment																							equipment
kiln, caldron																							kiln, caldron
electric equipment											1											1	electric
electric equipment																						'	equipment

human power machine,																									human power
tools																									machine, tools
tools			1						1								1							3	tools
other equipments,																									other equipments, facilities
temporary buildings, establishments						1												1	1					3	temporary buildings, establishments
hazards, harmful substances											1													1	hazards, harmful substances
materials																									materials
load																									load
natural environment										1			4									1		6	natural environment
other causal agent																									other causal agent
no causal agent							1	1				1	1	1		1					1			7	no causal agent
unclassifiable																									unclassifiable
total	3	4	4	3	4	3	4	1	1	4	1	1	6	2	2	7	2	5	5	2	3	2	2	71	total

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																									circular sawing
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																									leveling, transporting or loading machine
excavating machine																									excavating machine

foundation work											foundation work
machine											machine
hardening machine											hardening machine
demolition machine											demolition machine
vehicle for high lift											vehicle for high lift
work											work
other construction											other construction
machines											machines
lathe											lathe
drill press, milling											drill press, milling
machine											machine
grinding machine,											grinding machine,
buffing machine											buffing machine
power press											power press
forging pressure											forging pressure
hammer											hammer
shearing machine											shearing machine
other metal											other metal
manufacturing											manufacturing
machines											machines
centrifugal machine											centrifugal machine
mixer, grinder											mixer, grinder
wall manahina (assas											roll machine (except
roll machine (except printingroll machine)											printingroll
pa. g. o.i macimic)											

													machine)
injection molding machine													injection molding machine
food manufacturing machine													food manufacturing machine
printing machine													printing machine
industrial robot													industrial robot
other general power machines													other general power machines
felling machine												ŀ	felling machine
mobile logging machine													mobile logging machine
skyline yarding machine													skyline yarding machine
other mobile silviculture machine													other mobile silviculture machine
crane													crane
mobile crane													mobile crane
derrick crane													derrick crane
elevator, lift													elevator, lift
cargo lifting appliance													cargo lifting appliance
gondola													gondola
lumberyard													lumberyard

equipment, logging cableway																						equipment, logging cableway
simple skyline yarding equipment																						simple skyline yarding equipment
other powered crane																						other powered crane
truck	1	1	1	1					2			1	1	1	2					1	12	truck
forklift																						forklift
railway equipment																						railway equipment
conveyor																						conveyor
loader																						loader
straddle carrier																						straddle carrier
rough terrain hauler																						rough terrain hauler
other powered conveying machines																						other powered conveying machines
cars, bus, motorcycle	2	3	2	2	4	2	3		1		1	1	5		2	4	2	1	1	1	37	cars, bus, motorcycle
railway vehicle																						railway vehicle
other vehicles																						other vehicles
boiler																						boiler
pressure vessel																						pressure vessel
other pressure vessels																						other pressure vessels
chemical facilities																						chemical facilities

I .	 		 												 				 	
gas welding																				gas welding
equipment																				equipment
arc welding																	1		1	arc welding
equipment																				equipment
other welding																				other welding
equipment																				equipment
kiln, caldron																				kiln, caldron
industrial dryer																				industrial dryer
other kiln, caldron																				other kiln, caldron
transmission											1								1	transmission
electric power																				electric power
facilities																				facilities
other electrical																				other electrical
equipment																				equipment
human power cranes																				human power
naman power cranes																				cranes
human power																				human power
hauling equipment																				hauling equipment
human power																				human power
machine																				machine
hand tool																				hand tool
ladder		1					1							1					3	ladder
slinging tool																				slinging tool
other tools																				other tools
Ir-	 $\overline{}$	$\overline{}$	 $\overline{}$	$\overline{}$	-	-	 			$\overline{}$	$\overline{}$	$\overline{}$	 							

other equipment,															other equipment,
facilities															facilities
scaffolding															scaffolding
timbering															timbering
stairs, landing stage											1			1	stairs, landing stage
opening															opening
roof, beam, haze,															roof, beam, haze, crossbeam,
crossbeam, principal															principal rafter
working platform, boot board										1				1	working platform, boot board
passage															passage
building, establishment															building, establishment
other temporary buildings, establishments			1											1	other temporary buildings, establishments
explosive substance															explosive substance
inflammable substance															inflammable substance
inflammable gas															inflammable gas
harmful substance						1								1	harmful substance
radiation															radiation
other hazards,															other hazards,

harmful substances																									harmful substances
metal material																									metal material
lumber, bamboo																									lumber, bamboo
stone, sand,																									stone, sand,
substance																									substance
other materials																									other materials
load																									load
machine/equipment																									machine/equipment
as load																									as load
natural ground, rock																									natural ground,
natural ground, rock																									rock
standing tree																						1		1	standing tree
water													4											4	water
abnormal																									abnormal
environment																									environment
high/cold																									high/cold
temperature																									temperature
environment																									environment
other environments										1														1	other environments
other causal agent																									other causal agent
no causal agent							1	1				1	1	1		1					1			7	no causal agent
unclassifiable																									unclassifiable
total	3	4	4	3	4	3	4	1	1	4	1	1	6	2	2	7	2	5	5	2	3	2	2	71	total

Workers age of fatal accidents in bus 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																									19 years old or less
20-29		1																						1	20-29
30-39		1	2											1		2								6	30-39
40-49	3	1		1	1	1				1		1	2			1			1				1	14	40-49
50-59		1	1	2	2		2	1	1	2	1		1	1	1	2	1	3	2		1	1	1	27	50-59
60 years old or more			1		1	2	2			1			3		1	2	1	2	2	2	2	1		23	60 years old or more
total	3	4	4	3	4	3	4	1	1	4	1	1	6	2	2	7	2	5	5	2	3	2	2	71	total

Workers' number of workplace of fatal accidents in bus 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	1		1										1	1		1	1		1	1			1	9	9 workers or less
10-29		1	1	1		2			1				2		1	1	1				1	1		13	10-29
30-49	1		1				2	1				1	1	1				1	2					11	30-49
50-99		2			4					2	1		1		1	2		2	1				1	17	50-99
100-299	1	1	1	2		1				2			1			3		2	1	1	2	1		19	100-299
300 workers or more							2																	2	300 workers or more
total	3	4	4	3	4	3	4	1	1	4	1	1	6	2	2	7	2	5	5	2	3	2	2	71	total

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		1								1						1		2						5	January
February	1	1			1	1			1	1						1			1	1				9	February
March		1	1				2	1		1			4			1	1		1			1		14	March
April			1							1	1									1		1		5	April
May			1		1	1						1									1			5	May
June		1												1										2	June
July							1								1		1						2	5	July
August					2								1	1		1								5	August
September	1												1		1			1						4	September
October			1				1									2		2	1					7	October
November				1												1					1			3	November
December	1			2		1													2		1			7	December
total	3	4	4	3	4	3	4	1	1	4	1	1	6	2	2	7	2	5	5	2	3	2	2	71	total

Prefecture of fatal accidents in bus 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		1		2		1	1	2				1		1			1		1			12	Hokkaido
Aomori																									Aomori
lwate													1									1		2	lwate
Miyagi													3			1								4	Miyagi
Akita																									Akita

Yamagata				1																1	Yamagata
Fukushima			1							1							1			3	Fukushima
Ibaraki																			1	1	Ibaraki
Tochigi															1	1			1	3	Tochigi
Gunma			1																	1	Gunma
Saitama	1																			1	Saitama
Chiba							1								1		1			3	Chiba
Tokyo			1		1						1		1	2						6	Tokyo
Kanagawa				1							1	1								3	Kanagawa
Niigata																					Niigata
Toyama	1																			1	Toyama
Ishikawa																					Ishikawa
Fukui																					Fukui
Yamanashi					1															1	Yamanashi
Nagano																		1		1	Nagano
Gifu									2											2	Gifu
Shizuoka																					Shizuoka
Aichi		1					1													2	Aichi
Mie		2																		2	Mie
Shiga																1				1	Shiga
Kyoto			1			1														2	Kyoto
Osaka													1	2						3	Osaka
Hyogo							1													1	Hyogo

Nara							1																	1	Nara
Wakayama																									Wakayama
Tottori																									Tottori
Shimane																									Shimane
Okayama															1									1	Okayama
Hiroshima																	1							1	Hiroshima
Yamaguchi																									Yamaguchi
Tokushima																									Tokushima
Kagawa																			1					1	Kagawa
Ehime																									Ehime
Kochi																									Kochi
Fukuoka					2									1										3	Fukuoka
Saga	1																							1	Saga
Nagasaki																1								1	Nagasaki
Kumamoto																									Kumamoto
Oita																									Oita
Miyazaki												1				1	1	1	1					5	Miyazaki
Kagoshima																1								1	Kagoshima
Okinawa																									Okinawa
total	3	4	4	3	4	3	4	1	1	4	1	1	6	2	2	7	2	5	5	2	3	2	2	71	total

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

