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

bus service industry Code No.040202

Type of accidents in bus service in 1999-2022

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
fall from height	92	84	78	90	103	96	88	105	100	106	92	126	77	82	89	96	86	111	92	113	101	81	82	82	2,252
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	266	4,668
crash	36	34	43	39	46	42	47	62	49	51	46	64	53	49	55	59	57	67	57	82	52	57	54	50	1,251
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	9	280
collapse	4	6	3	2	3	2			3	1	4	3		3	1	3		1	2	1	3	2	1		48
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	18	476
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	27	842
cut	4	10		3	8	7	8	7	8	10	7	8	3	6	10	9	4	5	2	3	8	4	6	5	145
injury to the sole of the foot	1												1	1							1				4
drown													3		1										4
contact to high/low-	9	21	9	9	14	14	15	16	19	11	9	19	17	15	12	10	9	14	8	12	14	15	9	10	310

temperature																									
contact to harmful substance	1	4	1		3	2		1	2	2	2	1	3	1	2	1			3	1	1	1		1	33
electric shock		1											1												2
explosion	1												1				1				1		1		5
burst		2		1	1	2	1			3	1			1		2					1			1	16
fire									1				1				1								3
traffic accident (public road)	89	120	104	109	118	129	149	122	156	153	141	165	163	170	164	209	204	209	179	163	174	125	132	153	3,600
traffic accident (others)	1	1	2		2	1	1	1	5		1		2	2	1			1	1	1	1	1			25
reaction to motion/improper motion	96	60	90	99	89	136	124	131	126	173	157	142	164	165	169	173	178	194	183	205	191	140	167	168	3,520
others	17	14	12	15	15	18	16	31	24	25	18	12	29	18	19	24	20	6	26	26	23	26	62	20	516
unclassifiable	7	4	6	15	6	13	4	4	5	10	6	7	2	6	7	6	4	5	3	5	3	6	1	1	136
total	568	551	595	594	627	694	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	811	18,136

Causal agents (large) of fatal and non-fatal accidents in bus service in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
machine	7	7	8	9	8	6	11	5	6	10	6	4	8	4	8	3	10	5	1	9	4	5	6	6	156

crane, conveying machine	227	257	239	261	275	291	320	297	313	332	309	347	341	349	335	381	358	364	354	380	362	278	279	318	7,567
other equipment	55	58	58	46	53	73	74	84	75	84	84	100	77	76	106	117	96	112	98	115	113	87	90	97	2,028
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	218	4,395
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	8	237
load	19	15	24	19	16	29	18	24	32	25	31	19	29	22	24	25	32	36	26	30	28	7	11	25	566
environment	26	26	25	25	25	32	28	36	26	31	22	36	57	41	45	54	31	49	46	71	43	41	36	52	904
others	79	48	65	77	84	91	90	97	96	108	98	98	105	93	102	89	102	88	115	101	112	103	155	87	2,283
total	568	551	595	594	627	694	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	811	18,136

Causal agents (middle) of fatal and non-fatal accidents in bus service in 1999-2022

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine		1		1		2	1	1	1	1			1							1					10
power transmission mechanism	1	2	4	2	4		3		2	3	2	2	1		5		5	1	1	5	3	1	2	4	53
woodworking machine							1		1	2	1		2		1					1		2	2		13

construction machine	1	1	1	1			1				1			2	1	1	1	2						1	14
metal manufacturing machine	1	2		1		2	1	1		1	1	1	1			2	2						1	1	18
general machine	4	1	3	4	4	2	4	3	2	3	1	1	3	2	1		2	2		2	1	2	1		48
mobile silviculture machine																									
crane	1		1		1	1	1	1				2	1		2	2	2		1	1				1	18
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	19	494
vehicle	203	234	217	239	253	265	304	281	290	316	288	323	319	329	315	352	326	350	334	354	339	268	258	298	7,055
pressure vessel							1			1											1			1	4
chemical facilities												1			1	1									3
welding equipment	2	2										1	1	1							1				8
kiln, caldron							1																		1
electric equipment	1	2				1	1			1			2	1		1		1		1		1			13
human power machine, tools	5	10	8	8	6	13	13	16	19	11	14	15	18	18	35	25	30	32	20	31	26	29	21	25	448
tools	45	40	38	35	38	50	52	55	39	57	57	70	48	44	55	76	56	62	68	72	66	46	58	54	1,281
other equipments,	2	4	12	3	9	9	6	13	17	14	13	13	8	12	15	14	10	17	10	11	19	11	11	17	270

facilities																									
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	218	4,395
hazards, harmful substances	2	6	4	1	3	3	2	3	7	3	5	1	6	2	3		1	1	3		1	2	1	2	62
materials	10	9	14	4	9	10	4	11	8	9	5	11	5	7	7	12	6	2	4	5	4	4	9	6	175
load	19	15	24	19	16	29	18	24	32	25	31	19	29	22	24	25	32	36	26	30	28	7	11	25	566
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	52	904
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	37	810
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	50	1,346
unclassifiable	10	6	5	7	13	11	3	8	4	16	4	5	4	4	3	3	5	4		2	5	4	1		127
total	568	551	595	594	627	694	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	811	18,136

Causal agents (small) of fatal and non-fatal accidents in bus service in 1999-2022

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	2022	total
engine							1	1	1	1			1							1					6
power transmission mechanism			4		4		3		2	3	2	2	1		5		5	1	1	5	3	1	2	4	48
circular sawing							1		1		1				1					1					5

machine																									
band sawing machine																									
wood planer machine																							1		1
hollow chisel mortiser, wood borer																						1			1
chamfering machine, router, woodworking milling machine																									
chain saw													1									1	1		3
other woodworking machines										2			1												3
leveling, transporting or loading machine							1							1	1		1	1						1	6
excavating machine														1		1									2
foundation work machine																									
hardening machine			1																						1
demolition machine																									

vehicle for high lift work																		1							1
other construction machines											1														1
lathe																									
drill press, milling machine												1					1							1	3
grinding machine, buffing machine											1		1			1							1		4
power press								1																	1
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines							1			1						1	1								4
centrifugal machine																									
mixer, grinder																									
roll machine (except printingroll machine)																									
injection molding																									

machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines			3		4		4	3	2	3	1	1	3	2	1		2	2		2	1	2	1		37
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane															1	1				1					3
mobile crane			1		1		1					2				1									6
derrick crane																									
elevator, lift								1					1		1				1					1	5
cargo lifting appliance																									
gondola																									

lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																	2								2
truck			18		19		15	15	22	15	20	20	18	19	18	26	27	12	16	24	19	10	18	18	369
forklift			1							1		1	2				1				1				7
railway equipment																									
conveyor			1																		1				2
loader													1								1				2
straddle carrier																									
rough terrain hauler																									
other powered conveying machines			1		2				1		1	1		1		1	2	2	3	1	1		3	1	21
cars, bus, motorcycle			216		249		303	276	285	313	288	321	319	327	312	349	318	346	329	346	336	268	257	295	6,053
railway vehicle			1					1						1	2										5
other vehicles					4		1	4	5	3		2		1	1	3	8	4	5	8	3		1	3	56
boiler																					1				1
pressure vessel																									

other pressure vessels							1			1														1	3
chemical facilities												1			1	1									3
gas welding equipment												1		1											2
arc welding equipment													1								1				2
other welding equipment																									
kiln, caldron							1																		1
industrial dryer																									
other kiln, caldron																									
transmission													2	1						1					4
electric power facilities																		1							1
other electrical equipment							1			1						1						1			4
human power cranes					1			1	1		2	1						1							7
human power hauling equipment			1		1		8	10	9	7	11	10	15	13	29	20	29	28	17	26	21	24	17	20	316
human power							1						1		1							1			4

machine																									
hand tool			7		4		4	5	9	4	1	4	2	5	5	5	1	3	3	5	5	4	4	5	85
ladder			28		30		35	41	32	40	47	55	36	29	35	45	35	42	49	50	50	32	37	32	780
slinging tool										1												1			2
other tools			10		8		17	14	7	16	10	15	12	15	20	31	21	20	19	22	16	13	21	22	329
other equipment, facilities			12		9		6	13	17	14	13	13	8	12	15	14	10	17	10	11	19	11	11	17	252
scaffolding							1	1	1	1		2	1	1				1					1	1	11
timbering																									
stairs, landing stage			27		30		36	22	33	29	31	25	21	40	35	45	25	47	36	44	40	33	30	40	669
opening			3		2			1	4	2	1	6	3	2	2	3	1	3	1	2	1	2	1		40
roof, beam, haze, crossbeam, principal rafter			1						1				3									3		1	9
working platform, boot board			12		14		17	7	14	13	18	16	14	14	13	11	13	16	21	16	8	8	13	16	274
passage			74		61		80	85	71	74	64	66	92	109	101	108	92	98	84	112	105	102	115	121	1,814
building, establishment			24		30		20	28	34	28	34	30	34	26	31	20	28	31	33	38	27	24	35	25	580
other temporary buildings, establishments			17		17		13	22	14	16	15	23	18	20	15	26	23	32	27	24	37	25	21	14	419

explosive substance																									
inflammable substance			1						2	1			1		1			1						1	8
inflammable gas								1	1		2		1												5
harmful substance			1		1					1		1	2						1						7
radiation																									
other hazards, harmful substances			2		2		2	2	4	1	3		2	2	2		1		2		1	2	1	1	30
metal material			6		5		2	6	1	3	4	4	3	5	1	5	3	1	2	2	2	2	4	2	63
lumber, bamboo			2				1	2			1	2	1		1	1	1	1		2	1		1		17
stone, sand, substance			3		1				1	3					2	1			1	1	1			2	16
other materials			3		3		1	3	6	3		5	1	2	3	5	2		1			2	4	2	46
load			23		14		18	22	31	23	24	18	26	22	21	24	31	35	25	28	28	6	10	22	451
machine/equipment as load			1		2			2	1	2	7	1	3		3	1	1	1	1	2		1	1	3	33
natural ground, rock					1		3	5	1	2			1	2	1	1	2	1	3	2	2	1	1		29
standing tree			3		1			1	1				4		1							1	1	1	14
water					1		1		1	3			6			1	1	3			1	3			21
abnormal environment			1											2				1			1				5

high/cold temperature environment			3		3		1	2	1	3		4	4	3	5	3	3	5	2	4	7	6	3	2	64
other environments			18		19		23	28	22	23	22	32	42	34	38	49	25	39	41	65	32	30	31	49	662
other causal agent			28		27		37	37	45	39	31	17	29	27	34	34	32	38	40	24	35	30	74	37	695
no causal agent			32		44		50	52	47	53	63	76	72	62	65	52	65	46	75	75	72	69	80	50	1,200
unclassifiable			5		13		3	8	4	16	4	5	4	4	3	3	5	4		2	5	4	1		93
total	568	551	595	594	627	694	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	811	18,136

Workers age of fatal and non-fatal accidents in bus service in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less	15	12	16	11	15	5	11	10	6	7	2	4	7	7	10	6	3	9	4	6	1	3	4		174
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	31	1,173
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	68	3,274
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	168	5,613
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	335	5,604
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	209	2,298
total	568	551	595	594	627	694	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	811	18,136

Workers' number of workplace of fatal and non-fatal accidents in bus service in 1999-2022

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
9 workers or less	23	26	23	16	26	31	24	20	18	27	23	15	24	17	28	22	23	19	31	31	32	14	15	14	542
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	51	1,102
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	60	1,266
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	180	3,680
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	449	10,357
300 workers or more	62	54	61	60	33	53	49	34	27	30	40	32	41	60	49	44	53	53	55	72	68	52	50	57	1,189
total	568	551	595	594	627	694	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	811	18,136

Month of fatal and non-fatal accidents in bus service in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January	64	49	68	69	66	79	63	105	68	71	93	99	108	100	108	113	94	105	95	126	84	73	104	122	2,126
February	61	62	69	55	63	63	62	75	70	79	57	80	72	93	85	113	79	73	83	92	70	65	75	79	1,775
March	44	42	48	46	53	54	61	60	52	60	62	84	65	50	53	67	66	77	55	81	93	61	69	70	1,473
April	36	37	42	42	53	47	44	46	63	57	57	54	71	58	67	53	63	71	60	85	70	50	45	56	1,327
May	41	35	47	41	46	56	57	47	67	41	67	54	63	68	60	57	65	54	57	61	77	54	56	48	1,319
June	45	46	47	51	46	52	72	65	52	66	44	65	53	61	56	65	57	68	71	74	70	61	59	52	1,398
July	43	53	44	48	47	51	55	56	53	69	47	53	63	58	61	61	85	60	72	75	65	61	67	57	1,404

August	36	45	46	43	39	55	59	52	64	56	54	61	57	69	77	70	51	69	65	65	75	61	56	70	1,395
September	46	47	44	47	57	60	55	51	56	60	40	48	72	73	59	68	59	72	72	76	49	49	58	60	1,378
October	49	45	36	47	59	56	48	64	67	76	56	63	56	50	62	74	72	72	71	71	84	54	62	47	1,441
November	45	48	57	49	48	64	56	47	70	53	65	62	55	61	78	67	63	86	64	66	71	52	75	57	1,459
December	58	42	47	56	50	57	82	55	53	77	81	61	79	65	61	86	64	78	84	75	77	83	77	93	1,641
total	568	551	595	594	627	694	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	811	18,136

Prefecture of fatal and non-fatal accidents in bus service in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido	59	62	60		58		56	57	56	54	54	58	65	64	64	73	61	68	83	75	63	41	49	57	1,337
Aomori	13	9	10		15		16	7	13	10	8	11	9	11	8	4	9	8	12	8	9	4	8	12	214
Iwate	5	11	7		4		8	8	5	6	5	9	7	9	6	9	5	3	3	6	7	6	6	10	145
Miyagi	6	9	14		18		15	12	14	15	14	16	24	20	19	17	13	15	12	11	24	16	23	12	339
Akita	4	5	2		6		2	6	7	4	2	7	5	4	5	5	6	7	2	4	2	3	7	4	99
Yamagata	6	3	4		2		2	1	1	6	1	1	1	3	2	2	1	3	2	1	1	7	2	4	56
Fukushima	8	7	10		5		10	6	7	4	4	3	5	9	14	11	7	9	14	14	8	8	10	13	186
Ibaraki	14	26	21		5		12	20	19	16	24	15	18	17	21	21	22	17	15	25	17	20	10	21	396
Tochigi	6	4	6		10		2	5	9	2	6	4	7	9	8	8	6	2	10	5	10	7	6	5	137
Gunma	6	4	10		5		5	5	11	4	3	4	3	2	5	14	5	12	5	4	9	7	5	3	131
Saitama	15	16	14		9		14	23	20	21	19	30	27	30	30	37	22	29	43	23	37	34	45	46	584

Chiba	14	16	22		17		30	24	28	39	37	33	42	28	31	45	41	39	30	38	49	43	53	51	750
Tokyo	57	62	65		70		83	93	112	98	103	100	98	102	108	101	112	123	114	139	128	92	94	116	2,170
Kanagawa	52	37	61		42		70	67	91	84	78	103	111	113	122	143	122	132	125	129	130	119	122	116	2,169
Niigata	6	16	9		14		13	16	12	19	12	19	3	16	14	13	9	13	17	12	7	8	8	16	272
Toyama	6	2	2				4	4	1	3	2	6	4	5	6	5	3	2	2	4	6	1	2		70
Ishikawa	1	3	1		4		4	7	4	2	2	1	4	7	3	2	3	2	3	9	4	4	2	5	77
Fukui	2	1	3		4		1	1		1	3	1	2	5	3	3	3	2	4			3	3	1	46
Yamanashi	5	1	1		3		5	1	2	2	2	2		3	3	3	2	2	2	4	4	2	1	4	54
Nagano	8	7	13		18		12	12	15	11	18	18	9	12	12	16	11	17	6	16	10	10	14	9	274
Gifu	6	7	3		10		15	15	3	7	7	7	6	7	6	9	4	9	7	15	8	7	8	5	171
Shizuoka	13	7	10		9		18	12	15	15	9	18	8	21	17	12	16	21	10	19	12	16	16	16	310
Aichi	17	20	16		23		18	15	21	28	27	17	26	32	23	18	35	23	30	31	32	24	25	32	533
Mie	4	4	3		6		1	6	2	3	5	8	7	8	6	5	4	4	3	7	7	12	3	4	112
Shiga	1	1	1		6		5	4	2	7	6	4	9	4	7	6	11	5	5	5	5	5	3	7	109
Kyoto	34	27	25		34		26	27	37	32	30	31	33	23	32	21	39	38	30	35	31	20	23	16	644
Osaka	62	51	56		70		77	72	64	71	73	62	82	57	60	73	60	62	59	81	64	46	67	54	1,423
Hyogo	19	19	22		19		31	34	32	25	16	29	32	31	29	27	31	44	35	39	35	34	28	31	642
Nara	11	12	14		13		17	16	4	8	11	5	13	12	10	11	10	14	11	16	16	9	4	7	244
Wakayama	6	13	4		3		3	5	3	4	3	5	5	8	3	5	2	5	6	5	5	2	3	2	100
Tottori		2	2		1		1	1	4	6	2	1	3	4	6	1	1		2	3	2	5	2	2	51
Shimane	1	6	5		2		1	1	2	4	1	1	4	6	4	3	2	5	4	2	2		8	1	65

Okayama	13	10	3		8		13	8	8	12	8	9	6	7	5	10	5	4	4	9	5	6	11	5	169
Hiroshima	16	12	12		13		12	16	9	10	20	15	11	6	15	14	18	12	20	11	13	16	27	25	323
Yamaguchi	5	1	6		7		7	3	2	9	5	8	7	5	8	8	10	2	3	8	7	5	5	3	124
Tokushima	5	3	4		3		2	3	1		3	4	2	5	3	3	3	1	4	3	5	4	3	2	66
Kagawa	1	8	4		3		4	2	3	5	2	4	2	6	4	2	2	4	5	4	5	4	2	2	78
Ehime	5	2	3		4		6	8	4	3	2	2	3	7	7	6	5	2	7	8	6	3	3	7	103
Kochi	4	5	6		2		3	7	5	3	6	5	4	7	3	5	5	3	9	6	2	3	2	6	101
Fukuoka	14	7	14		21		28	32	44	55	50	46	44	35	44	45	40	48	43	51	34	26	50	42	813
Saga	5	5	3		6		3	6	4	10	3	10	12	5	2	4	4	6	4	4	5	3	7	2	113
Nagasaki	4	3	5		11		6	9	4	13	10	14	15	13	16	15	16	15	11	17	15	15	13	17	257
Kumamoto	1	2	2		9		14	8	13	9	5	13	7	6	6	9	10	9	6	9	7	2	3	9	159
Oita	12	3	9		10		11	11	8	7	8	4	13	7	7	11	8	4	5	8	17	9	4	2	178
Miyazaki	3	6	5		4		6	4	3	6	4	4		1	4	11	3	11	6	7	7	3	1	2	101
Kagoshima	7	4	17		12		9	9	7	8	8	9	11	9	10	18	6	18	6	10	3	7	8	3	199
Okinawa	6	10	6		9		13	14	4	4	2	8	5	5	6	10	5	11	10	7	10	3	4	2	154
total	568	551	595	594	627	694	714	723	735	765	723	784	814	806	827	894	818	885	849	947	885	724	803	811	18,136

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

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

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

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

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Fatal accidents in bus service in Japan in 1999-2022

bus service industry Code No.040202

Type of fatal accidents in bus service in 1999-2022

Type of accidents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
fall from height			1						1						1		1	1	1				1		7
falling to same level						1				1															2
crash																									
struck by flying or falling object																									
collapse																									
crashed by																1						1			2
caught in/between	1		1		1		1									1			1	1		1			8
cut																									
injury to the sole of the foot																									
drown													3												3

contact to high/low-temperature																					1				1
contact to harmful substance											1														1
electric shock													1												1
explosion																									
burst																									
fire																									
traffic accident (public road)	2	4	2	3	3	2	2			3				1	1	4	1	4	3	1	1		1	1	39
traffic accident (others)																									
reaction to motion/improper motion																									
others							1	1				1	2	1		1					1				8
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	1	72

Causal agents (large) of fatal accidents in bus service in 1999-2022

Causal (L) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total

machine																									
crane, conveying machine	3	4	3	3	4	2	3			3				1	2	6	1	4	4	2	1	1	2	1	50
other equipment			1						1				1				1				1				5
temporary buildings, establishments						1												1	1						3
substance, material											1														1
load																									
environment										1			4									1			6
others							1	1				1	1	1		1					1				7
total	3	4	4	3	4	3	4	1	1	4	1	1	6	2	2	7	2	5	5	2	3	2	2	1	72

Causal agents (middle) of fatal accidents in bus service in 1999-2022

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine																									
power transmission mechanism																									
woodworking machine																									
construction machine																									

metal manufacturing machine																									
general machine																									
mobile silviculture machine																									
crane																									
conveying machine	1	1	1	1						2					1	1	1	2					1		12
vehicle	2	3	2	2	4	2	3			1				1	1	5		2	4	2	1	1	1	1	38
pressure vessel																									
chemical facilities																									
welding equipment																					1				1
kiln, caldron																									
electric equipment													1												1
human power machine, tools																									
tools			1						1								1								3
other equipments, facilities																									
temporary buildings, establishments						1												1	1						3
hazards, harmful substances											1														1

materials																									
load																									
natural environment										1			4									1			6
other causal agent																									
no causal agent							1	1				1	1	1		1					1				7
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	1	72

Causal agents (small) of fatal accidents in bus service in 1999-2022

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	2022	total
engine																									
power transmission mechanism																									
circular sawing machine																									
band sawing machine																									
wood planer machine																									
hollow chisel mortiser, wood borer																									

chamfering machine, router, woodworking milling machine																									
chain saw																									
other woodworking machines																									
leveling, transporting or loading machine																									
excavating machine																									
foundation work machine																									
hardening machine																									
demolition machine																									
vehicle for high lift work																									
other construction machines																									
lathe																									
drill press, milling machine																									
grinding machine,																									

buffing machine																									
power press																									
forging pressure hammer																									
shearing machine																									
other metal manufacturing machines																									
centrifugal machine																									
mixer, grinder																									
roll machine (except printingroll machine)																									
injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines																									
felling machine																									
mobile logging																									

machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane																									
mobile crane																									
derrick crane																									
elevator, lift																									
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck	1	1	1	1						2					1	1	1	2					1		12
forklift																									
railway equipment																									
conveyor																									

loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle	2	3	2	2	4	2	3			1				1	1	5		2	4	2	1	1	1	1	38
railway vehicle																									
other vehicles																									
boiler																									
pressure vessel																									
other pressure vessels																									
chemical facilities																									
gas welding equipment																									
arc welding equipment																					1				1
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									

transmission													1												1
electric power facilities																									
other electrical equipment																									
human power cranes																									
human power hauling equipment																									
human power machine																									
hand tool																									
ladder			1						1								1								3
slinging tool																									
other tools																									
other equipment, facilities																									
scaffolding																									
timbering																									
stairs, landing stage																			1						1
opening																									
roof, beam, haze,																									

crossbeam, principal rafter																									
working platform, boot board																		1							1
passage																									
building, establishment																									
other temporary buildings, establishments						1																			1
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance											1														1
radiation																									
other hazards, harmful substances																									
metal material																									
lumber, bamboo																									
stone, sand, substance																									

other materials																									
load																									
machine/equipment as load																									
natural ground, rock																									
standing tree																						1			1
water													4												4
abnormal environment																									
high/cold temperature environment																									
other environments										1															1
other causal agent																									
no causal agent							1	1				1	1	1		1					1				7
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	1	72

Workers age of fatal accidents in bus service in 1999-2022

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
19 years old or less																									

20-29		1																							1
30-39		1	2											1		2									6
40-49	3	1		1	1	1				1		1	2			1			1				1		14
50-59		1	1	2	2		2	1	1	2	1		1	1	1	2	1	3	2		1	1	1	1	28
60 years old or more			1		1	2	2			1			3		1	2	1	2	2	2	2	1			23
total	3	4	4	3	4	3	4	1	1	4	1	1	6	2	2	7	2	5	5	2	3	2	2	1	72

Workers' number of workplace of fatal accidents in bus service in 1999-2022

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
9 workers or less	1		1										1	1		1	1		1	1			1		9
10-29		1	1	1		2			1				2		1	1	1				1	1			13
30-49	1		1				2	1				1	1	1				1	2						11
50-99		2			4					2	1		1		1	2		2	1				1	1	18
100-299	1	1	1	2		1				2			1			3		2	1	1	2	1			19
300 workers or more							2																		2
total	3	4	4	3	4	3	4	1	1	4	1	1	6	2	2	7	2	5	5	2	3	2	2	1	72

Month of fatal accidents in bus service in 1999-2022

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
January		1								1						1		2							5

February	1	1			1	1			1	1						1			1	1					9
March		1	1				2	1		1			4			1	1		1			1			14
April			1							1	1									1		1			5
May			1		1	1						1									1				5
June		1												1											2
July							1								1		1						2		5
August					2								1	1		1								1	6
September	1												1		1			1							4
October			1				1									2		2	1						7
November				1												1					1				3
December	1			2		1													2		1				7
total	3	4	4	3	4	3	4	1	1	4	1	1	6	2	2	7	2	5	5	2	3	2	2	1	72

Prefecture of fatal accidents in bus service in 1999-2022

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
Hokkaido		1		1		2		1	1	2				1		1			1		1				12
Aomori																									
Iwate													1									1			2
Miyagi													3			1									4
Akita																									

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

Osaka																1		2							3
Hyogo							1																		1
Nara							1																		1
Wakayama																									
Tottori																									
Shimane																									
Okayama															1										1
Hiroshima																	1								1
Yamaguchi																									
Tokushima																									
Kagawa																			1						1
Ehime																									
Kochi																									
Fukuoka					2									1											3
Saga	1																								1
Nagasaki																1									1
Kumamoto																									
Oita																									
Miyazaki												1				1	1	1	1						5
Kagoshima																1									1
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	1	72

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

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