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

traveling service industry Code No.090201

Type of accidents in traveling 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	5	1	5	3	5	6	6	2	2	2	7	8	2	4	9	3	8	5	7	3	7	3	3	8	114
falling to same level	10	7	10	3	8	14	19	9	7	15	23	18	25	17	18	19	22	20	23	33	20	13	14	13	380
crash		3			1	2	3	2	1	3		2		1	2	1	3	3	4	1	3	1	2	2	40
struck by flying or falling object		2	3									2	1			1			1	2					12
collapse										1			1						1					1	4
crashed by				2		1			2	3	1	3	1	1	2	1	3	2	1	1	2	1	1		28
caught in/between			1				1	2			1	1		3	1									1	11
cut			1										2	1	1	1					1				7
injury to the sole of the foot																									
drown																									
contact to high/low-			1								1			1	1	1	1				1				7

temperature																									
contact to harmful substance																	1	1							2
electric shock																									
explosion																									
burst																									
fire																									
traffic accident (public road)	6	4	2	4	9	7	4	8	6	2	7	6	3	2	2	3	5	3	2	3	2	1	2	2	95
traffic accident (others)												1	1		1										3
reaction to motion/improper motion	2	7		4	3	3	2	1	2	5	6	2	3	7	6	5	8	6	7	8	9	4	6	5	111
others			1			1		1		2	1	2	1	1	1	1	1		2	1	2	3	44	1	66
unclassifiable		1								1				2						1					5
total	23	25	24	16	26	34	35	25	20	34	47	45	40	40	44	36	52	40	48	53	47	26	72	33	885

Causal agents (large) of fatal and non-fatal accidents in traveling 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			2																					1	3

crane, conveying machine	7	6	2	6	7	11	12	12	6	7	13	15	4	6	8	5	13	8	7	6	4	3	6	4	178
other equipment	2	3	5	2	3	1	2	1	1	2	7	3	2	2		1	2	2	2	7	5	2	4	5	66
temporary buildings, establishments	11	7	7	4	9	13	19	7	10	16	19	14	23	16	22	16	23	17	25	26	27	12	12	14	369
substance, material			2				1				1		1	1	1	1	1	1			1			2	13
load		1	1	1	2				1	1	1	3	1	1	1	2		1	1	4	2			3	27
environment	2	2	4		3	4	1	3		2	2		3	2	4	4	4	4	3	3		2	3	2	57
others	1	6	1	3	2	5		2	2	6	4	10	6	12	8	7	9	7	10	7	8	7	47	2	172
total	23	25	24	16	26	34	35	25	20	34	47	45	40	40	44	36	52	40	48	53	47	26	72	33	885

Causal agents (middle) of fatal and non-fatal accidents in traveling 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			1																						1
general machine			1																					1	2
mobile silviculture machine																									
crane															1										1
conveying machine	1			1	1		2	1		1	1	1											2		11
vehicle	6	6	2	5	6	11	10	11	6	6	12	14	4	6	7	5	13	8	7	6	4	3	4	4	166
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment		1					1			1				1						1			1	1	7
human power machine, tools		1	1		2		1				4					1				1					11
tools	1	1	2			1		1		1	2	3	2	1				1	1	3	5	1	2	2	30

other equipments, facilities	1		2	2	1				1		1						2	1	1	2		1	1	2	18
temporary buildings, establishments	11	7	7	4	9	13	19	7	10	16	19	14	23	16	22	16	23	17	25	26	27	12	12	14	369
hazards, harmful substances											1					1									2
materials			2				1						1	1	1		1	1			1			2	11
load		1	1	1	2				1	1	1	3	1	1	1	2		1	1	4	2			3	27
natural environment	2	2	4		3	4	1	3		2	2		3	2	4	4	4	4	3	3		2	3	2	57
other causal agent		3	1	1		3				3	1	2	2	2	4	1	3	4	4	2	5	6	44		91
no causal agent	1	2		2	1	2		2	2	2	2	8	4	7	3	6	5	3	6	5	3	1	3	2	72
unclassifiable		1			1					1	1			3	1		1								9
total	23	25	24	16	26	34	35	25	20	34	47	45	40	40	44	36	52	40	48	53	47	26	72	33	885

Causal agents (small) of fatal and non-fatal accidents in traveling 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			1																						1
centrifugal machine																									
mixer, grinder																									
roll machine (except printingroll																									

machine)																									
injection molding machine																									
food manufacturing machine																									
printing machine																									
industrial robot																									
other general power machines			1																					1	2
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															1										1
truck					1		2	1			1	1											1		7
forklift																							1		1
railway equipment																									
conveyor										1															1
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																									
cars, bus, motorcycle			2		6		10	9	6	5	12	13	4	4	6	4	11	8	7	5	4	2	4	4	126
railway vehicle								1				1													2
other vehicles								1		1				2	1	1	2			1		1			10

boiler																									
pressure vessel																									
other pressure vessels																									
chemical facilities																									
gas welding equipment																									
arc welding equipment																									
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									
transmission										1				1						1			1	1	5
electric power facilities																									
other electrical equipment							1																		1
human power cranes																									
human power																									

hauling equipment			1		2		1				4									1					9
human power machine																1									1
hand tool																									
ladder			1								1	3							1	1	1	1		2	11
slinging tool								1																	1
other tools			1							1	1		2	1				1		2	4		2		15
other equipment, facilities			2		1				1		1						2	1	1	2		1	1	2	15
scaffolding																									
timbering																									
stairs, landing stage			2		1		7	3	3	1	4	7	8	5	10	7	5	4	10	4	5	6	3	5	100
opening			1		1																				2
roof, beam, haze, crossbeam, principal rafter																									
working platform, boot board					1		1	1		1				1				1	2	4	1				13
passage			4		3		9	3	5	9	11	4	13	6	9	3	11	9	7	16	18	4	6	7	157
building, establishment					2		1			2	4	2	1	3		5		3	4	1	2	1	2	1	34

other temporary buildings, establishments					1		1		2	3		1	1	1	3	1	7		2	1	1	1	1	1	28
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance																									
radiation																									
other hazards, harmful substances											1					1									2
metal material			1															1							2
lumber, bamboo																									
stone, sand, substance							1								1		1				1			2	6
other materials			1										1	1											3
load			1		2				1	1	1	3	1	1	1	2		1	1	4	2			3	25
machine/equipment as load																									
natural ground, rock			1					2								1		1	1			1	2	1	10
standing tree											1		1			1									3

water			1		2										1	1							1		6
abnormal environment			1														1								2
high/cold temperature environment														1	1	1	1								4
other environments			1		1		1	1		2	1		2	1	2		2	3	2	3		1		1	24
other causal agent			1							3	1	2	2	2	4	1	3	4	4	2	5	6	44		84
no causal agent					1			2	2	2	2	8	4	7	3	6	5	3	6	5	3	1	3	2	65
unclassifiable					1					1	1			3	1		1								8
total	23	25	24	16	26	34	35	25	20	34	47	45	40	40	44	36	52	40	48	53	47	26	72	33	885

Workers age of fatal and non-fatal accidents in traveling 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				1			1																1		3
20-29	11	9	11	7	11	9	10	2	4	8	14	5	4	5	8	5	6	4	4	5		5	11	3	161
30-39	4	6	2	4	10	10	10	11	9	11	17	7	11	10	6	5	7	2	9	1	9	4	7	2	174
40-49	5	3	4	1	1	7	6	3	4	8	8	18	12	12	14	11	24	13	16	14	8	5	16	8	221
50-59	1	6	5	2	3	8	6	9	2	4	8	12	7	9	12	11	12	13	12	27	20	4	25	14	232
60 years old or	2	1	2	1	1		2		1	3		3	6	4	4	4	3	8	7	6	10	8	12	6	94

more																								
total	23	25	24	16	26	34	35	25	20	34	47	45	40	40	44	36	52	40	48	53	47	26	72	33	885

Workers' number of workplace of fatal and non-fatal accidents in traveling 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	7	8	2	4	8	5	5	5	4	2	10	8	9	7	4	5	2	5	4	7	8	4	9	3	135
10-29	6	6	6	5	5	6	10	9	3	9	4	9	4	4	5	7	8	4	10	7	4	5	3	4	143
30-49	3	3	1	2	4	6	1	2	1	4	3	4	3	2	3	1	6	4	2	4	2	2	18	6	87
50-99	3	1	4	1	3	2	5	2	3	5	4	5	7	6	4	3	3	5	5	5	6	2	28	1	113
100-299	3	4	2	2	6	6	4	2	1	7	14	3	4	10	12	10	8	5	9	15	9	5	7	7	155
300 workers or more	1	3	9	2		9	10	5	8	7	12	16	13	11	16	10	25	17	18	15	18	8	7	12	252
total	23	25	24	16	26	34	35	25	20	34	47	45	40	40	44	36	52	40	48	53	47	26	72	33	885

Month of fatal and non-fatal accidents in traveling 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	2	2	2	1	5	3	2		3	6	4	3	4	3	3	4	7	4	5	10	5	3	2	1	84
February	3	1	2		2	5	1	4	2	4	4	2	7	4	6	4	6	4	2	3	3	4	1	2	76
March	2	2	3	3	4		6	2	3	4	3	3	3	3	6	2	6	4	4	6	7	2	1	1	80
April		1			1	5	1	2		2	6	7		1	4	3	2	1	2	7	5		3	2	55

May	3	2	2	1	1	1	7	2	1	2	7	4	4	3	5	6	6	3	4	2	2	1	12	2	83
June	2	3	3		3	2	4	5	2	1	4	7	2	4	1	5	2	5	5	8	1	2	8	1	80
July	3	1	6		3	4	3	3		3	2	5	6	1	4	2	2	4	7	4	4	2	1	4	74
August	3	4	3	6	1	2	3		2	2	3	4	1	7	1	1	4	4	6	1	3	1	32	3	97
September	3	2	1		2	4	2	2	1		4	3	6	3	4	5	4	4	3	2	7		3	6	71
October	2	4	1	2	1	2	3	2	3	2	5	2	1	6	4	2	5	3	6	4	3	4	3	2	72
November		2		1	1	2	3	2	3	4	3	2	4	3	5		6	3	2	5	6	5	4	6	72
December		1	1	2	2	4		1		4	2	3	2	2	1	2	2	1	2	1	1	2	2	3	41
total	23	25	24	16	26	34	35	25	20	34	47	45	40	40	44	36	52	40	48	53	47	26	72	33	885

Prefecture of fatal and non-fatal accidents in traveling 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	3				2			5	1	1	5		3	1		3		3	1	5				1	34
Aomori																	1					1			2
Iwate																				1			1		2
Miyagi							1	1		1			1	1	2				1	1		1	3		13
Akita																									
Yamagata		1	1																		1				3
Fukushima	1						1							1				1							4
Ibaraki							1	2				1	1	1					1	1					8

Tochigi										1		1									1				3
Gunma															1			1							2
Saitama														1					3	4					8
Chiba					1				4			1	1	2	1	2		1		1			25	2	41
Tokyo	3	7	8		8		8	4	4	18	15	21	16	16	24	14	33	14	20	15	22	12	24	9	315
Kanagawa	2	3							1					1		1		1		2	1	1			13
Niigata					1		1	1			1		2					1	1	1				1	10
Toyama	1								1			1				1		2			1			1	8
Ishikawa							1		1															1	3
Fukui														2	1										3
Yamanashi												1			1				1						3
Nagano	2	1					5				1	1	1												11
Gifu											1													1	2
Shizuoka	1		1					1			4	4	1	1		1	3		1					1	19
Aichi	2	2					1			3	2	5	1	1	2		1	2	6	4	4	1	4	3	44
Mie	1	2			2		1		1				1				1								9
Shiga			1																1	1					3
Kyoto		1	1		2							1				1	1			1					8
Osaka	4	3	5		4		5	2	1	4	8	2	4	3	1	5	6	5	5	4	8	5	5	6	95
Hyogo							1	1			1		2	1			1	1	1					2	11

Nara		1																					1		2
Wakayama							1	1														1		1	4
Tottori	1																	1					1		3
Shimane			1																	1					2
Okayama			2				1					1		1		3									8
Hiroshima		1			1		1	2				2			2					1			1		11
Yamaguchi					1								1												2
Tokushima			2														1	1					3		7
Kagawa			1		1		2	1		1	1						1			1				1	10
Ehime		1	1				1		1						1										5
Kochi										1															1
Fukuoka							2	2	3	2	2	1		4	3	4	1	6	5	5	3	2	1	1	47
Saga		1			1										1										3
Nagasaki	1										1				1						1	1			5
Kumamoto							1		1		5			3	1	1	2			3	2		1	1	21
Oita	1							1					3								1			1	7
Miyazaki					1										1				1						3
Kagoshima					1								1		1							1	2		6
Okinawa		1						1	1	2		2	1							1	2				11
total	23	25	24	16	26	34	35	25	20	34	47	45	40	40	44	36	52	40	48	53	47	26	72	33	885

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)

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html

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Fatal accidents in traveling service in Japan in 1999-2022

traveling service industry Code No.090201

Type of fatal accidents in traveling 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							2
falling to same level																									
crash																									
struck by flying or falling object																									
collapse																									
crashed by																									

caught in/between																									
cut																									
injury to the sole of the foot																									
drown																									
contact to high/low-temperature																									
contact to harmful substance																									
electric shock																									
explosion																									
burst																									
fire																									
traffic accident (public road)	4			1				1						1							1				8
traffic accident (others)																									
reaction to motion/improper motion																									
others								1			1										1				3

unclassifiable																									
total	4			1				2			1			1	1			1			2				13

Causal agents (large) of fatal accidents in traveling 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	4			1				1						1							1				8
other equipment																									
temporary buildings, establishments															1			1							2
substance, material																									
load																									
environment																									
others								1			1										1				3
total	4			1				2			1			1	1			1			2				13

Causal agents (middle) of fatal accidents in traveling 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											3
vehicle	3			1																	1				5
pressure vessel																									
chemical facilities																									
welding																									

equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools																									
other equipments, facilities																									
temporary buildings, establishments															1			1							2
hazards, harmful substances																									
materials																									
load																									
natural environment																									
other causal agent																					1				1
no causal agent								1			1														2
unclassifiable																									
total	4			1				2			1			1	1			1			2				13

Causal agents (small) of fatal accidents in traveling 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											3
forklift																									
railway equipment																									
conveyor																									
loader																									
straddle carrier																									

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

electric power facilities																									
other electrical equipment																									
human power cranes																									
human power hauling equipment																									
human power machine																									
hand tool																									
ladder																									
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																									
passage																									
building, establishment																		1							1
other temporary buildings, establishments																									
explosive substance																									
inflammable substance																									
inflammable gas																									
harmful substance																									
radiation																									
other hazards, harmful substances																									
metal material																									
lumber, bamboo																									
stone, sand, substance																									

other materials																									
load																									
machine/equipment as load																									
natural ground, rock																									
standing tree																									
water																									
abnormal environment																									
high/cold temperature environment																									
other environments																									
other causal agent																					1				1
no causal agent								1			1														2
unclassifiable																									
total	4			1				2			1			1	1			1			2				13

Workers age of fatal accidents in traveling 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	2							1																	3
30-39				1				1			1			1				1			1				6
40-49	1																				1				2
50-59																									
60 years old or more	1														1										2
total	4			1				2			1			1	1			1			2				13

Workers' number of workplace of fatal accidents in traveling 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			2				6
10-29	1			1							1														3
30-49	1																								1
50-99	1							1							1										3
100-299																									
300 workers or more																									
total	4			1				2			1			1	1			1			2				13

Month of fatal accidents in traveling 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											2
February																									
March																									
April																									
May								1										1							2
June																									
July											1										1				2
August	2																								2
September	1																								1
October								1																	1
November				1											1						1				3
December																									
total	4			1				2			1			1	1			1			2				13

Prefecture of fatal accidents in traveling 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

Aomori																									
Iwate																									
Miyagi																									
Akita																									
Yamagata																									
Fukushima																									
Ibaraki								1																	1
Tochigi																									
Gunma																									
Saitama																									
Chiba																									
Tokyo											1				1										2
Kanagawa																									
Niigata																									
Toyama																									
Ishikawa																									
Fukui																									
Yamanashi																									
Nagano	1																								1
Gifu																									
Shizuoka																									

Aichi																		1			1				2
Mie																									
Shiga																									
Kyoto																									
Osaka																									
Hyogo																									
Nara																									
Wakayama								1																	1
Tottori	1																								1
Shimane																									
Okayama																									
Hiroshima																									
Yamaguchi																									
Tokushima																									
Kagawa																									
Ehime																									
Kochi																									
Fukuoka														1											1
Saga																									
Nagasaki																									

Kumamoto																									
Oita	1																				1				2
Miyazaki																									
Kagoshima																									
Okinawa																									
total	4			1				2			1			1	1			1			2				13

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

Return to https://www.jisha.or.jp/english/statistics/2022e_industry.html