

Fatal and non-fatal accidents in railroad/water transportation/airline service in Japan in 1999-2021

railroad/water transportation/airline service industry Code No.0401

Type of accidents in railroad/water transportation/airline 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	78	68	69	83	81	94	76	94	83	67	72	80	76	76	61	69	67	73	75	95	78	77	85	1,777	fall from height
falling to same level	103	101	87	77	104	113	108	94	96	94	97	107	105	134	116	119	117	119	119	133	109	99	138	2,489	falling to same level
crash	36	42	57	36	31	41	41	55	51	36	36	42	20	27	49	46	26	60	53	44	48	37	51	965	crash
struck by flying or falling object	15	16	22	23	16	23	23	15	18	13	13	12	18	23	6	16	16	17	14	22	17	17	12	387	struck by flying or falling object
collapse	4	1	4	3	2	2	5	5	5	4	2	1	2	5	2	3	7	3	2	2	4			68	collapse
crashed by	36	36	30	24	22	30	28	21	24	23	17	31	19	27	23	62	58	23	21	19	34	16	21	645	crashed by
caught in/between	56	50	51	36	44	61	51	64	64	46	41	49	39	47	78	44	42	40	62	40	64	41	42	1,152	caught in/between
cut	9	8	8	4	12	14	10	7	9	11	10	7	5	7	10	11	9	3	11	9	7	7	7	195	cut
injury to the sole of the foot			1			3	1	2		1		1	3				1		2			2		17	injury to the sole of the foot
drown	1	1					1						4	1	1	1	2		2	2			1	17	drown
contact to high/low-temperature	7	7	6	6	5	11	4	6	8	8	4	4	4	8	8	9	10	10	23	15	11	7	4	185	contact to high/low-temperature



machine	115	147	157	173	171	232	212	212	259	177	178	169	139	176	165	149	165	177	166	192	189	120	125	3,965	conveying machine
other equipment	64	77	63	73	54	69	79	56	68	79	57	52	51	73	57	81	57	66	74	87	55	62	60	1,514	other equipment
temporary buildings, establishments	141	125	111	106	149	159	143	173	170	139	130	162	123	158	153	154	147	155	175	161	180	146	193	3,453	temporary buildings, establishments
substance, material	10	13	7	13	9	12	14	16	14	11	10	14	16	14	7	10	18	8	11	10	12	12	10	271	substance, material
load	19	26	22	33	20	18	22	27	37	18	10	18	22	26	26	26	20	28	54	28	33	22	17	572	load
environment	30	34	33	33	35	30	26	40	48	24	18	17	40	45	47	37	34	57	59	56	34	26	29	832	environment
others	87	59	82	91	99	104	97	68	64	86	79	74	69	89	78	82	74	71	71	69	65	91	216	1,965	others
total	479	492	486	528	544	637	603	601	666	541	494	514	472	589	542	548	525	566	622	615	578	483	656	12,781	total

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

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (M) agents	
engine	1	1								1							2			1				6	engine	
power transmission mechanism	1		1	2			1	1		1		1	4	1	1	1			2	2	2			21	power transmission mechanism	
woodworking machine	1		1		3	2				1		1	2	1	1	2	1		1		1			18	woodworking machine	
																										construction

construction machine	1	4			1	2	2	3	2		2		3		2	1	1	1	2	2	1	2	4	36	machine
metal manufacturing machine	4	2	5	1	2	2	1	1	1	2	2	1	3	2			1	1	3	1	2	1	1	39	metal manufacturing machine
general machine	5	4	4	3	1	7	6	4	3	2	8	5		4	5	5	5	2	4	6	4	1	1	89	general machine
mobile silviculture machine																									mobile silviculture machine
crane	5	3	4	3	2	3	1	2	1	4	4	1	4	3	5	3	1	5	4	4	6	10	1	79	crane
conveying machine	24	19	22	28	20	21	16	18	18	8	15	15	9	16	12	9	11	13	23	11	18	13	15	374	conveying machine
vehicle	86	125	131	142	149	208	195	192	240	165	159	153	126	157	148	137	153	159	139	177	165	97	109	3,512	vehicle
pressure vessel						1										2								3	pressure vessel
chemical facilities																									chemical facilities
welding equipment		1		1			1						1			1			1					6	welding equipment
kiln, caldron			1												1	1	2		1					6	kiln, caldron
electric equipment	3	3	2	6	2	1	7	2	5	4	1	3		2	3	4	2	3	2	5	1	2	2	65	electric equipment
human power machine, tools	15	14	11	16	17	25	28	16	16	24	10	7	12	17	16	18	11	13	12	20	13	15	13	359	human power machine, tools
tools	30	29	33	34	20	30	35	23	31	30	21	25	24	27	27	41	22	29	31	38	23	32	26	661	tools





demolition machine																									demolition machine
vehicle for high lift work				1			1	1				2					1					1	7	vehicle for high lift work	
other construction machines							1	1	1		1			2		1		2	1	1	1	2	14	other construction machines	
lathe			1	2		1			1	1	1	1											8	lathe	
drill press, milling machine			1						1									1					1	4	drill press, milling machine
grinding machine, buffing machine			2					1		1		1	2			1		2	1	2	1		14	grinding machine, buffing machine	
power press																								power press	
forging pressure hammer																								forging pressure hammer	
shearing machine																								shearing machine	
other metal manufacturing machines			1					1				1					1						4	other metal manufacturing machines	
centrifugal machine																								centrifugal machine	
mixer, grinder											1					1							2	mixer, grinder	
roll machine (except printingroll machine)																								roll machine (except printingroll machine)	
injection molding machine																								injection molding machine	









timbering																									timbering
stairs, landing stage			23		43		34	49	44	41	34	45	29	47	35	27	38	36	54	43	43	37	44	746	stairs, landing stage
opening			3		3		4	4	1	3	5	2	3	2	4	4	2	2	3	2	3	5	2	57	opening
roof, beam, haze, crossbeam, principal rafter					2		3	4			1	1	1	1	2	1	2		1	1	1		1	22	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			14		12		11	11	10	13	11	15	11	18	14	13	9	12	19	13	14	9	12	241	working platform, boot board
passage			26		42		48	53	54	45	39	54	35	55	55	63	52	57	55	66	51	39	86	975	passage
building, establishment			26		25		28	31	40	19	26	27	24	16	25	27	24	22	23	19	21	23	27	473	building, establishment
other temporary buildings, establishments			17		19		15	20	19	16	14	17	18	19	17	17	19	25	19	17	47	32	19	386	other temporary buildings, establishments
explosive substance											1													1	explosive substance
inflammable substance													1								2			3	inflammable substance
inflammable gas								1							1									2	inflammable gas
harmful substance					1		2		1								2							6	harmful substance
radiation																									radiation
other hazards, harmful substances							2	2	4	2	2		3	1	1	1	2	1	5	1			1	28	other hazards, harmful substances
metal material			4		5		6	4	4	3	1	5	7	4	1	2	6	5	3	3	2	7	4	76	metal material
lumber, bamboo					1		1	4		1	1	4	2	3	2	1	3		1		2	2	3	31	lumber, bamboo

stone, sand, substance			1				2	2	4	3	4	4	2	1	1	1	1	1	2	3	4	1	1	38	stone, sand, substance
other materials			2		2		1	3	1	2	1	1	1	5	1	5	4	1		3	2	2	1	38	other materials
load			17		18		22	24	37	17	10	18	21	25	25	26	19	27	51	26	33	20	15	451	load
machine/equipment as load			5		2			3		1			1	1	1		1	1	3	2		2	2	25	machine/equipment as load
natural ground, rock			4		3		4	6	6	4	2	2	9	4	11	3	2	5	5	1	5	1	6	83	natural ground, rock
standing tree			4		4		3	1	2	1	1	2	2	1	1	2	1	1		1		2	1	30	standing tree
water			1				1						4	1	2				2	1	1			13	water
abnormal environment			1		1		1	9	11	1	1	1	6	14	16	6	10	21	22	21	2		1	145	abnormal environment
high/cold temperature environment			2					2	2			1	1	1	2	1	3	3	6	7	4	6	1	42	high/cold temperature environment
other environments			21		27		18	21	27	18	14	11	18	24	15	25	18	27	24	25	22	17	20	392	other environments
other causal agent			33		27		36	33	22	33	42	33	33	22	22	31	22	25	20	26	16	20	159	655	other causal agent
no causal agent			38		55		51	29	34	39	32	35	34	52	51	51	48	44	47	43	46	70	56	855	no causal agent
unclassifiable			11		17		10	6	8	14	5	6	2	15	5		4	2	4		3	1	1	114	unclassifiable
total			486		544		603	601	666	541	494	514	472	589	542	548	525	566	622	615	578	483	656	10,645	total

Workers age of fatal and non-fatal accidents in railroad/water transportation/airline 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
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19 years old or less	7	6	6	8	2	3	3	7	4	6	8	4	7	7	2	5	3	5	9	5	7	4	12	130	19 years old or less
20-29	133	147	138	147	167	172	169	148	149	115	108	113	90	128	140	131	126	163	167	186	170	124	173	3,304	20-29
30-39	101	100	94	137	121	169	169	173	214	157	136	137	141	172	150	124	120	118	132	108	119	93	138	3,123	30-39
40-49	124	104	114	121	129	144	119	123	156	126	106	113	78	125	91	118	101	112	113	127	120	90	115	2,669	40-49
50-59	93	111	115	88	109	120	110	112	115	106	101	104	114	122	114	127	121	126	134	118	97	100	144	2,601	50-59
60 years old or more	21	24	19	27	16	29	33	38	28	31	35	43	42	35	45	43	54	42	67	71	65	72	74	954	60 years old or more
total	479	492	486	528	544	637	603	601	666	541	494	514	472	589	542	548	525	566	622	615	578	483	656	12,781	total

Workers' number of workplace of fatal and non-fatal accidents in railroad/water transportation/airline 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	38	20	30	22	37	37	30	43	25	29	14	34	23	38	24	22	22	20	31	25	19	34	24	641	9 workers or less
10-29	51	52	55	58	40	52	43	39	57	35	44	47	55	48	32	35	38	40	44	49	55	65	46	1,080	10-29
30-49	54	47	50	46	53	44	47	55	37	40	31	48	37	44	55	47	45	50	48	39	45	44	55	1,061	30-49
50-99	63	61	44	57	68	58	76	67	66	68	72	59	76	69	65	69	58	69	76	76	68	67	95	1,547	50-99
100-299	140	148	134	135	169	198	163	183	192	166	170	172	158	174	180	164	158	159	192	167	172	159	288	3,941	100-299
300 workers or more	133	164	173	210	177	248	244	214	289	203	163	154	123	216	186	211	204	228	231	259	219	114	148	4,511	300 workers or more
total	479	492	486	528	544	637	603	601	666	541	494	514	472	589	542	548	525	566	622	615	578	483	656	12,781	total

Month of fatal and non-fatal accidents in railroad/water transportation/airline service in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
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January	36	37	55	51	57	40	59	58	54	56	51	59	63	54	60	56	58	41	56	61	67	59	52	1,240	January
February	49	45	41	37	49	55	61	63	62	50	43	48	48	59	54	61	48	50	52	63	47	52	63	1,200	February
March	51	52	48	53	52	68	47	60	65	38	48	46	48	52	46	50	59	57	57	45	57	45	34	1,178	March
April	41	29	38	28	51	43	44	51	77	37	52	42	27	41	42	49	36	42	49	52	51	35	44	1,001	April
May	36	38	42	41	49	48	61	34	52	43	35	51	30	49	33	47	41	53	36	46	50	29	66	1,010	May
June	37	38	49	29	46	42	59	54	51	37	38	40	33	54	37	29	47	48	46	51	40	32	40	977	June
July	36	39	38	49	39	58	36	45	59	48	37	35	35	51	48	40	50	49	58	51	51	30	71	1,053	July
August	33	51	47	40	44	47	53	39	53	47	39	44	26	43	49	36	34	50	66	59	43	32	105	1,080	August
September	36	48	21	38	40	65	45	50	57	31	45	38	41	63	41	61	51	51	55	54	43	34	43	1,051	September
October	42	35	39	51	49	58	32	54	47	46	37	35	37	42	48	33	36	42	50	36	40	44	50	983	October
November	41	42	37	51	25	55	55	54	47	55	32	37	36	39	40	34	41	41	39	39	42	35	35	952	November
December	41	38	31	60	43	58	51	39	42	53	37	39	48	42	44	52	24	42	58	58	47	56	53	1,056	December
total	479	492	486	528	544	637	603	601	666	541	494	514	472	589	542	548	525	566	622	615	578	483	656	12,781	total

Prefecture of fatal and non-fatal accidents in railroad/water transportation/airline 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	15	19	14		21		21	13	19	12	17	19	21	29	28	20	19	31	38	30	38	38	49	511	Hokkaido
Aomori	2	6	4		4		8	3	3	1	3	3	5	7	2	3	1			1	4	3	3	66	Aomori
Iwate	2		4		2		4	1	1	1	1	1		1	3	4	3	1	1	3	2	3	4	42	Iwate
Miyagi	6	7	8		10		8	3	11	6	6	14	11	6	7	3	6	4	13	5	4	4	8	150	Miyagi
Akita	2	2	3		2		3	2	4	6	2	3	3	5	5	2	1	6	4	4	4	2	4	69	Akita
Yamagata	2	6	3		2		1	4	4	2	2	6	6	1	8	3		2	7	4	1	4	4	72	Yamagata

Fukushima	8	5	3		4		9	9	5	6	5	9	3	5	6	4	1	2	4	4	2	2	4	100	Fukushima
Ibaraki	7	7	12		11		2	7	5	1	3	4	2	8	8	4	1	1	3			4	5	95	Ibaraki
Tochigi	2	2	2		2			4	3		1	2	2	2	1	3	1	2	3	4	1			37	Tochigi
Gunma	11	16	8		12		14	5	6	10	15	4	11	15	12	12	18	6	11	9	8	5	6	214	Gunma
Saitama	15	16	15		15		15	23	9	17	8	16	12	17	17	10	9	10	7	7	6	14	18	276	Saitama
Chiba	72	99	98		106		136	105	131	77	67	59	38	59	50	69	56	82	63	62	49	26	26	1,530	Chiba
Tokyo	88	59	89		106		128	122	142	132	105	136	105	174	129	167	158	174	174	195	172	94	112	2,761	Tokyo
Kanagawa	23	27	24		24		19	41	33	31	22	21	24	33	31	24	21	20	30	29	27	33	32	569	Kanagawa
Niigata	25	10	11		6		10	13	14	14	12	9	9	13	8	11	7	11	9	8	7	13	16	236	Niigata
Toyama	1	5	2		6		2	3	2		1	3	4	1	1	1	7	2	3	4	5	4	5	62	Toyama
Ishikawa	1		1		2		2	3	4	2		1	1	1	2	1	3	4	2	8	5	2	21	66	Ishikawa
Fukui	1	8	2		1		1	1	1	4	3	2	1	2		2		1	1			3	3	37	Fukui
Yamanashi	1		3		4		2	3	1	1	2		2	1	2		2	2	2	1		2	2	33	Yamanashi
Nagano	30	18	15		27		29	22	25	25	26	17	24	24	30	33	25	21	25	29	32	37	31	545	Nagano
Gifu		4	3		4		7	4	4	3	2	5	4	2	3	2	2	2	6	7	5	1	2	72	Gifu
Shizuoka	5	4	6		12		4	4	8	8	5	3	11	9	5	6	10	7	7	7	5	6	4	136	Shizuoka
Aichi	15	12	17		11		26	27	18	13	24	16	16	18	21	13	21	11	24	19	19	9	16	366	Aichi
Mie	5		8		4		5	5	5	6	6	3	4	3	4	1	4	5	2	4	4	4	3	85	Mie
Shiga	2	7	5		3		1	5	2	1	1	4	7	7	6	3	2	7	4	1	2	6	10	86	Shiga
Kyoto	8	1	4		2		11	14	14	5	10	7	15	9	20	19	8	18	19	18	15	13	14	244	Kyoto
Osaka	43	61	49		51		43	60	90	62	56	46	40	44	41	34	38	45	51	54	58	37	134	1,137	Osaka
Hyogo	15	17	14		6		12	14	15	11	5	19	12	17	12	13	19	13	17	12	14	25	16	298	Hyogo
Nara	2	1	2		2		4	3	4	3	1	2	2	2	3	3	4	4	4	1	2	4	4	57	Nara

Wakayama	2		2		1		3	3		2		1	3	2	1	3	1	4	3		6	3	4	44	Wakayama
Tottori	2		1		2		2	6		2			2			2					2	5		26	Tottori
Shimane	1	2	1		1			2	1	3	1		2	1		1			4			2	3	25	Shimane
Okayama	1	12	4		3		7	12	6	8	2	3	1	4	4	6	5	4	7	2	3	8	4	106	Okayama
Hiroshima	10	9	8		21		6	9	11	7	11	9	12	10	9	7	8	8	11	9	17	13	11	216	Hiroshima
Yamaguchi		2			3		1	2		4	4	2	4	4	5	2	3	5	4	3	5	2	2	57	Yamaguchi
Tokushima	1		1		2		6		2	3	5	1			2	1	5	5	3	3	1	1	1	43	Tokushima
Kagawa	8	4	6		8		8	8	10	2	7	9	5	6	5	2	2	4	4	6	6	5	17	132	Kagawa
Ehime	6	6	4		5		3	3	5	6	5	3	5	4	6	7	4	2	2	3	3	7	2	91	Ehime
Kochi	1	4	1		1		6	2	1	2	1	2	1	1	2	2		3	2	3	1	1	1	38	Kochi
Fukuoka	14	15	8		20		15	13	17	15	12	19	18	17	17	18	19	16	20	24	26	11	28	362	Fukuoka
Saga	1	1	1				1	1	1	2		2		4	1		4		2	2	1			24	Saga
Nagasaki	5		6		5		2	6	6	8	10	4	7	4	6	6	6	2	5	5	4	11	5	113	Nagasaki
Kumamoto	3	8	4		1		3	1	1	3	4	10	2	5	4	3	1	2	3	2	2	4	6	72	Kumamoto
Oita	4		3		2		3	1	3	1			2	2	1	4	2	1	1	4			1	35	Oita
Miyazaki	1	1			3		3	1		1		2	3	2	1	1			1	3	2	1	1	27	Miyazaki
Kagoshima	8	6	5		4		5	5	4	1	3	3	2	2	7	5	8	8	11	10	7	7	10	121	Kagoshima
Okinawa	2	3	2				2	3	15	13	16	10	10	4	6	10	8	8	5	6	1	4	4	132	Okinawa
total	479	492	486		544		603	601	666	541	494	514	472	589	542	548	525	566	622	615	578	483	656	11,616	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)



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 Fatal accidents in railroad/water transportation/airline service in Japan in 1999-2021

railroad/water transportation/airline service industry Code No.0401

Type of fatal accidents in railroad/water transportation/airline 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							2	1		2	1	3		16	fall from height
falling to same level									1	1		1	1		1	1						1		7	falling to same level
crash																									crash
struck by flying or falling object																									struck by flying or falling object
collapse																			1					1	collapse
crashed by			1		1		1												1					4	crashed by
caught in/between			1	1	1			2		1		1	1	1				1	1	1				12	caught in/between
cut																									cut
injury to the sole of the foot																									injury to the sole of the foot
drown		1					1	1					4	1	1	1	2		2	2			1	17	drown



																									agents
machine												1	1							1		1		4	machine
crane, conveying machine	3	4	8	3	6	9	3	8	8	4		7	1	2	2	2	5	1	8	4		4	1	93	crane, conveying machine
other equipment		1	1	1			1												1					5	other equipment
temporary buildings, establishments							2		1	1			2				1		1	1				9	temporary buildings, establishments
substance, material																	1							1	substance, material
load																									load
environment						1		1					3					1	1	1	1			9	environment
others	1		1												1							1	1	5	others
total	4	5	10	4	6	10	6	9	9	5		8	7	2	3	2	7	2	11	7	1	6	2	126	total

Causal agents (middle) of fatal accidents in railroad/water transportation/airline service in 1999-2021

Causal (M) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Causal (M) agents	
engine																										engine
power transmission mechanism													1								1				2	power transmission mechanism

woodworking machine																								woodworking machine	
construction machine																								construction machine	
metal manufacturing machine																								metal manufacturing machine	
general machine											1										1	2	general machine		
mobile silviculture machine																								mobile silviculture machine	
crane			1						1														2	crane	
conveying machine	1	2		1	1			1					1			1					2		10	conveying machine	
vehicle	2	2	7	2	5	9	3	7	8	3		7	1	1	2	2	4	1	8	4		2	1	81	vehicle
pressure vessel																								pressure vessel	
chemical facilities																								chemical facilities	
welding equipment																								welding equipment	
kiln, caldron																								kiln, caldron	
electric equipment			1	1			1																3	electric equipment	

human power machine, tools																								human power machine, tools		
tools		1																						2	tools	
other equipments, facilities																									other equipments, facilities	
temporary buildings, establishments							2		1	1			2				1		1	1				9	temporary buildings, establishments	
hazards, harmful substances																	1								1	hazards, harmful substances
materials																									materials	
load																									load	
natural environment						1		1					3					1	1	1	1			9	natural environment	
other causal agent			1																				1	2	other causal agent	
no causal agent	1													1									1	3	no causal agent	
unclassifiable																									unclassifiable	
total	4	5	10	4	6	10	6	9	9	5		8	7	2	3	2	7	2	11	7	1	6	2	126	total	

Causal agents (small) of fatal accidents in railroad/water transportation/airline service in 1999-2021















harmful substances																									harmful substances
metal material																									metal material
lumber, bamboo																									lumber, bamboo
stone, sand, substance																									stone, sand, substance
other materials																									other materials
load																									load
machine/equipment as load																									machine/equipment as load
natural ground, rock						1												1						2	natural ground, rock
standing tree																									standing tree
water								1					3							1				5	water
abnormal environment																									abnormal environment
high/cold temperature environment																									high/cold temperature environment
other environments																			1		1			2	other environments
other causal agent			1																				1	2	other causal agent
no causal agent	1														1							1		3	no causal agent
unclassifiable																									unclassifiable
total	4	5	10	4	6	10	6	9	9	5		8	7	2	3	2	7	2	11	7	1	6	2	126	total

Workers age of fatal accidents in railroad/water transportation/airline 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		2	1	1	1	3	1				1						1	2			2		16	20-29	
30-39			3	1		4	1		1	1		2	1	1					1	1				17	30-39	
40-49	1	2		1	3	2	1	6	3	1		2	2		1		2			1		2		30	40-49	
50-59	2	2	3		2	3	1	1	2	3		1			1	1	3	1	4	2		1	1	34	50-59	
60 years old or more		1	2	1				1	3			2	4	1	1	1	2		4	3	1	1	1	29	60 years old or more	
total	4	5	10	4	6	10	6	9	9	5		8	7	2	3	2	7	2	11	7	1	6	2	126	total	

Workers' number of workplace of fatal accidents in railroad/water transportation/airline 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	2		2	2	1	2	3	2		1	1		1	1	1		1	3				24	9 workers or less
10-29	1		1		1	5		2	3				4	1	2				3	2	1	1	1	28	10-29
30-49			1	2	2	3	1	5	3	3		1				1	2		2	1		2		29	30-49
50-99		1	1									3	1	1			1		4			3		15	50-99
100-299		3	1	2	1		3					1	1				2	1		1			1	17	100-299
300 workers or more	3		4				1					2					1	1	1					13	300 workers or more
total	4	5	10	4	6	10	6	9	9	5		8	7	2	3	2	7	2	11	7	1	6	2	126	total

Month of fatal accidents in railroad/water transportation/airline service in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month	
January			1			2	1	3					1	1	1	1		1						12	January	
February			2							1		2				2		1		1				9	February	
March	1	2	1		3	3	1					2	3			2			1					19	March	
April					1		2		1						1					1					6	April
May	1		3						1	1		1				1							1	9	May	
June				1	1	1			1							1		1				1		7	June	
July	1			2					1	2		3						1		1				11	July	
August			2					1								1		1	2			3		10	August	
September		2						1				2										1	1	7	September	
October	1		1	1	1			1	2				1	1											9	October
November						1			3	1									5	1					11	November
December		1				3	2	3					1		1			1	2	1		1			16	December
total	4	5	10	4	6	10	6	9	9	5		8	7	2	3	2	7	2	11	7	1	6	2	126	total	

Prefecture of fatal accidents in railroad/water transportation/airline 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		1	1							1	1	1	1	1			2		11	Hokkaido	
Aomori									1																1	Aomori
Iwate																										Iwate
Miyagi												1	3												4	Miyagi
Akita										2												1			3	Akita



Nara									1															1	Nara		
Wakayama																										Wakayama	
Tottori								3																3	Tottori		
Shimane																										Shimane	
Okayama			1																						1	Okayama	
Hiroshima													2												2	Hiroshima	
Yamaguchi																										Yamaguchi	
Tokushima																							1		1	Tokushima	
Kagawa								1						1											2	Kagawa	
Ehime																										Ehime	
Kochi								1																	1	Kochi	
Fukuoka																								1	2	Fukuoka	
Saga							3																		3	Saga	
Nagasaki																								1	1	Nagasaki	
Kumamoto			1																						1	Kumamoto	
Oita	1																								1	Oita	
Miyazaki																										Miyazaki	
Kagoshima																									2	2	Kagoshima
Okinawa																									1	2	Okinawa
total	4	5	10	4	6	10	6	9	9	5		8	7	2	3	2	7	2	11	7	1	6	2	126	total		

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



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