

Fatal and non-fatal accidents in specific truck transportation service in Japan in 1999-2022

specific truck transportation service industry Code No.040302

Type of accidents in specific truck transportation 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	219	184	150	163	178	146	148	157	142	116	96	122	99	104	127	140	111	102	97	106	108	124	128	112	3,179
falling to same level	76	70	68	62	67	59	64	62	71	54	45	56	61	67	63	63	51	67	57	61	51	65	64	52	1,476
crash	79	52	43	47	57	43	31	41	33	36	29	31	22	37	32	28	24	25	30	37	44	41	39	33	914
struck by flying or falling object	48	35	36	31	42	27	28	26	21	28	18	15	24	24	25	20	11	22	23	17	18	18	16	16	589
collapse	17	14	11	7	19	13	15	12	11	10	9	9	10	9	11	8	15	10	10	9	6	8	8	10	261
crashed by	27	27	20	34	36	12	29	27	23	22	13	14	19	8	10	16	18	24	12	17	28	18	17	21	492
caught in/between	94	84	76	76	73	73	70	67	61	68	39	50	43	51	53	49	46	37	41	42	42	39	36	46	1,356
cut	8	12	6	10	9	10	7	9	6	5	7	6	1	2	7	4	5	3	4	7	3	9	9	4	153
injury to the sole of the foot	1	1	2	2	1			2					1		3								1	1	15
drown				1									5												6
contact to high/low-	8	2	2		1	3	6	3	2	1	5	2	6	5	2	2	3	2	4	9	5	3	2	2	80

temperature																									
contact to harmful substance	3	2	1	1	3	2	3	3	2	3	2		3			1			2	1	1	3	1	2	39
electric shock																									
explosion				1	1	1									1										4
burst	1			1		1						1									1				5
fire											1					1				1					3
traffic accident (public road)	60	57	40	77	59	42	43	44	35	36	20	27	27	28	25	24	26	27	34	32	20	22	24	22	851
traffic accident (others)	1		3	1						1											1				7
reaction to motion/improper motion	105	83	81	64	101	62	78	77	63	66	53	67	59	66	61	75	63	47	56	56	68	74	71	59	1,655
others	4	6	4	3	3	3	1		2			1	4	1	3	1	2	1	1	3	1	3	2	1	50
unclassifiable	4		1	1			1	1	1			1	1	1				1			1	1		1	16
total	755	629	544	582	650	497	524	531	473	446	337	402	385	403	423	432	375	368	371	398	398	429	418	381	11,151

Causal agents (large) of fatal and non-fatal accidents in specific truck transportation 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	13	10	15	15	13	9	7	13	6	9	4	3	7	6	13	4	7	8	9	4	5	10	8	12	210

construction machine	5	3	7	7	4	5	4	6	3	8	2	2	3	4	4	2	2	6	3		2	5	3	5	95
metal manufacturing machine	2	2			1	2		1					2		2	1	1					3	4		21
general machine	4	3	3	4	6	1	3	6	2		1		2	2	4	1	2		5	2	2		1	4	58
mobile silviculture machine																					1			1	2
crane	15	8	11	12	9	14	17	11	10	10	6	7	5	6	4	10	10	8	6	6	5	7	12	3	212
conveying machine	340	291	236	255	276	217	230	219	195	187	135	167	147	153	186	182	163	147	143	163	161	182	179	174	4,728
vehicle	23	20	16	31	23	19	12	25	28	22	9	9	16	27	15	16	7	21	20	22	15	8	8	11	423
pressure vessel	1	2	1	1	1		1	2			3	2			1					1	1				17
chemical facilities						2		1																	3
welding equipment			1														1			1					3
kiln, caldron															1		1								2
electric equipment		1	1		1				1			1		1				1						1	8
human power machine, tools	27	14	15	21	32	23	19	21	18	25	14	23	19	12	19	16	15	21	20	14	14	20	16	13	451
tools	42	21	23	26	41	28	30	22	28	33	18	16	17	28	25	20	25	20	26	22	29	33	30	27	630
other equipments,	10	9	8	5	6	4	5	9	3	9	9	4	5	4	9	4	5	3	6	3	12	7	5	7	151

facilities																									
temporary buildings, establishments	91	92	77	85	82	69	66	96	80	67	52	79	69	71	59	68	52	62	56	68	81	72	72	70	1,736
hazards, harmful substances	5	2		1	6	3	5	1	1	2	2	2	3	2	1	2			3	3	2	2	1	3	52
materials	43	40	26	26	37	27	29	24	24	11	19	13	11	12	16	15	9	11	12	18	12	18	7	8	468
load	107	85	84	73	90	55	73	48	57	44	45	45	40	48	45	64	53	38	31	34	30	36	39	33	1,297
natural environment	3	5	15	10	9	6	10	17	8	8	7	8	19	9	8	12	6	13	11	12	8	6	11	4	225
other causal agent	10	8	3	4	7	4	4	5	3	3		2		2	5	2	2	1	7	7	3	1	6		89
no causal agent	23	21	12	15	17	17	16	15	7	16	14	18	27	21	16	16	18	14	21	19	20	27	23	14	427
unclassifiable	2			2				2	4			3		1		1	1			1			1	1	19
total	755	629	544	582	650	497	524	531	473	446	337	402	385	403	423	432	375	368	371	398	398	429	418	381	11,151

Causal agents (small) of fatal and non-fatal accidents in specific truck transportation 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				3	
power transmission mechanism			2							1					1		1	1		1				1		8
circular sawing			1						1		1						1		1			1		1		7

machine																									
band sawing machine														1										1	
wood planer machine																									
hollow chisel mortiser, wood borer																									
chamfering machine, router, woodworking milling machine																									
chain saw			1							1			1					1						4	
other woodworking machines					2																			2	
leveling, transporting or loading machine			2				2	1	3	1			2			1	2			1			2	17	
excavating machine			4				3	2	1	1		2	3		2	1			2			3	2	3	29
foundation work machine																									
hardening machine			1		1				1					1											4
demolition machine															1			1	1						3

other pressure vessels			1		1		1	2			3	2						1	1				13		
chemical facilities							1																1		
gas welding equipment															1			1					2		
arc welding equipment																									
other welding equipment			1																				1		
kiln, caldron														1	1								2		
industrial dryer																									
other kiln, caldron																									
transmission				1			1			1		1										1	5		
electric power facilities																									
other electrical equipment			1													1							2		
human power cranes				1		1		1	1					1						2	4	4	4	19	
human power hauling equipment			14		24		14	18	15	23	11	19	19	8	12	13	13	18	16	12	10	10	9	6	284
human power					1		1						1						1					4	

machine																									
hand tool			1		6		3	3	2	1	3	4		3	6	3	2	3	4	1	2	6	3	3	59
ladder			6		14		7	4	7	11	7	6	4	7	13	7	7	4	11	11	5	11	15	10	167
slinging tool			1		6		2	3	1	5	2	1	2	4	2		1	3	2			3	1		39
other tools			16		21		21	15	20	17	9	9	11	17	10	13	17	13	13	11	24	19	14	17	307
other equipment, facilities			8		6		5	9	3	9	9	4	5	4	9	4	5	3	6	3	12	7	5	7	123
scaffolding									1	2			2				1					1	2		9
timbering																									
stairs, landing stage			10		10		12	15	16	11	11	14	15	7	10	10	8	12	11	9	15	10	11	9	226
opening							1	2	2				2	1				1			1			1	11
roof, beam, haze, crossbeam, principal rafter			1		2								1	2											6
working platform, boot board			14		12		10	15	15	10	9	11	8	9	9	8	6	5	3	7	6	5	9	6	177
passage			26		21		21	30	26	22	18	32	25	28	20	30	21	23	29	32	42	31	33	38	548
building, establishment			16		16		13	21	12	15	9	12	11	14	12	13	10	14	6	9	6	11	8	9	237
other temporary buildings, establishments			10		21		9	13	8	7	5	10	5	10	8	7	6	7	7	11	11	14	9	7	185

high/cold temperature environment			4		1				2		1	3		4	2	1	2	1	1	2	5	4	2	2		37
other environments			6		5		9	13	4	5	2	6	3	4	5	9	2	11	9	6	2	4	4	3		112
other causal agent			3		7		4	5	3	3		2		2	5	2	2	1	7	7	3	1	6			63
no causal agent			12		17		16	15	7	16	14	18	27	21	16	16	18	14	21	19	20	27	23	14		351
unclassifiable								2	4				3		1		1	1			1			1	1	15
total	755	629	544	582	650	497	524	531	473	446	337	402	385	403	423	432	375	368	371	398	398	429	418	381		11,151

Workers age of fatal and non-fatal accidents in specific truck transportation 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	2	2	2	4	5	2	2	1	2	2	1	2	3	4	1	3	2	1	4	3	2	3	6	1		60
20-29	147	111	96	79	96	55	54	49	42	42	23	36	27	28	40	21	22	26	36	31	18	15	29	21		1,144
30-39	204	173	144	165	170	128	151	166	131	103	78	81	72	79	88	85	58	52	57	48	50	67	56	37		2,443
40-49	175	125	115	101	134	123	128	137	120	106	101	133	134	125	116	146	134	113	105	131	124	132	102	103		2,963
50-59	184	174	151	180	188	143	138	129	122	116	86	96	95	106	111	112	89	107	106	128	128	122	144	124		3,079
60 years old or more	43	44	36	53	57	46	51	49	56	77	48	54	54	61	67	65	70	69	63	57	76	90	81	95		1,462
total	755	629	544	582	650	497	524	531	473	446	337	402	385	403	423	432	375	368	371	398	398	429	418	381		11,151

Workers' number of workplace of fatal and non-fatal accidents in specific truck transportation service in 1999-2022

Chiba	26	24	15		22		20	12	13	17	21	21	13	24	15	12	10	18	9	8	11	15	17	16	359
Tokyo	55	40	46		132		93	106	85	74	61	70	57	47	62	47	47	51	45	29	28	16	18	20	1,229
Kanagawa	45	56	43		35		30	28	31	28	16	37	19	25	17	22	29	15	15	22	17	26	29	28	613
Niigata	3	6	1		3		1	3	6	3	4	4	1	3	3	2		1	2	2	3	3	3	2	59
Toyama	7	3	3		2		6	4	3	2	3	6	8	4	1	3	3		1	5	5	3	2	6	80
Ishikawa	1	2	4		8			2	4	2		3		1	3	6	7	3		4	2	8	4	5	69
Fukui	7	3	5		7		5	3	2		1	6	9	3	3	4	6	4	2	3	2	1		3	79
Yamanashi	1						3	1	3	1		3		1	1	1		1	1	2	1	1			21
Nagano	9	9	18		8		8	10	9	5	6	13	6	6	6	3	10	2	8	6	8	11	8	3	172
Gifu	23	24	21		5		11	10	10	14	6	10	10	9	10	7	7	9	4	2	4	4	5	8	213
Shizuoka	17	17	7		15		8	11	8	14	11	9	11	11	10	12	14	8	10	12	13	11	8	9	246
Aichi	44	43	35		49		34	50	40	46	28	23	40	37	40	50	45	36	38	41	39	57	42	39	896
Mie	103	40	4		5		9	4	2	2	2	6	11	3	3	9	5	6	3	5	3	7	10	9	251
Shiga	10	8	11		5		6	3	6	5	2	4	3	6	5	6	5	2	2	1	2	2	4	4	102
Kyoto	14	5	8		7		6	14	8	4	8	12	7	10	11	13	14	10	13	18	21	16	25	9	253
Osaka	141	108	84		99		79	58	28	17	17	25	23	39	41	46	32	27	31	34	29	29	17	19	1,023
Hyogo	21	19	28		43		24	18	19	19	13	11	17	9	20	16	8	7	10	13	10	7	14	13	359
Nara	7	1	5		4		1		2	3	2	3	5	6	13	12	4	7	4	3	6	4	7	6	105
Wakayama	5	7	20		6		9	5	7	6	9	9	8	3	1	4	4	6	8	8	8	2	5	5	145
Tottori	5	7	1		3		3	4	3	5	2			3	2		1	2	5	3	1	2	2		54
Shimane	2	8					2	1			1	1	1				1		1	1		1	1		21

Okayama	5	13	8		5		8	2	4	5	5	4	2	1	1	2	3	1	6	6	6	2	5	3	97
Hiroshima	27	15	18		12		18	8	19	12	7	7	13	9	9	7	6	9	2	8	5	6	6	8	231
Yamaguchi	13	9	7		8		4	4	3		6	4	5	5	4	3	6	4	5	5	6	5	5	7	118
Tokushima	6	7	3		5		1	4	5	6	3	1	4	3	4			4		2	2	2	5	1	68
Kagawa	4	11	11		5		12	7	6	2	1	3	4	6	5	4	3	16	5	4	7	8	10	4	138
Ehime	4	2	6		11		3	18	10	4	6	7	5	9	5	4	3	7	5	4	8	4	4		129
Kochi	3	2	2		2		3	5	3		1	1		3	13	3	10	6	4	5	3	2	7	8	86
Fukuoka	12	22	17		25		20	27	24	34	27	21	17	28	27	29	25	21	43	48	66	70	68	41	712
Saga	3	3	2		1			3	3		1	1		2	1	1		1	1	2	3		1	4	33
Nagasaki	7	2	1		6		2	1	1		1	4	2	4	7	1		3	1	2	3	6	4	4	62
Kumamoto	3	2	6		4		8	6	8	10	3	3	6	3	4	7	5	7	9	11	4	9	5	9	132
Oita	7	4	5		4		7	6	10	8	5	5	5	4	2	7	12	7	15	4	8	3	13	10	151
Miyazaki	5	3	4		2		4	3	5	2		2	3	1	2	4	3	2	1		2	2	2	6	58
Kagoshima	6	4	5				3	6	4	4	3	2	2	2	4	6	1	6	3	1	2	4		7	75
Okinawa	1							1	1			1			2		1					2	3	2	14
total	755	629	544	582	650	497	524	531	473	446	337	402	385	403	423	432	375	368	371	398	398	429	418	381	11,151

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)

metal manufacturing machine																									
general machine																		1						1	
mobile silviculture machine																									
crane								1										1						2	
conveying machine	6	11	9	3	8	10	5	4	2		2	2	4	2			1	1	1	3		2	2	4	82
vehicle			2		2			1								1			1			1			8
pressure vessel																									
chemical facilities																									
welding equipment																									
kiln, caldron																									
electric equipment																									
human power machine, tools																									
tools									1																1
other equipments, facilities																				1					1
temporary buildings, establishments										1			2											1	4
hazards, harmful substances								1											1						2

other materials																									
load	1				1					1	1									1		1			6
machine/equipment as load										1									1						2
natural ground, rock																									
standing tree																									
water												8													8
abnormal environment																									
high/cold temperature environment											1						1								2
other environments																									
other causal agent					1		1												1						3
no causal agent									2																2
unclassifiable											1														1
total	7	14	13	5	13	10	7	6	6	5	5	2	14	2		1	2	1	5	5	3	3	3	6	138

Workers age of fatal accidents in specific truck transportation 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						2

total	7	14	13	5	13	10	7	6	6	5	5	2	14	2		1	2	1	5	5	3	3	3	6	138
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Data sources: <https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html> (MHLW, Japan)

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