

Fatal and non-fatal accidents in other transport equipment products in Japan in 1999-2022

other transport equipment products industry Code No.011509

Type of accidents in other transport equipment products 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	33	25	33	28	22	29	17	28	29	42	36	22	25	19	29	25	24	23	25	22	31	34	27	38	666
falling to same level	35	22	36	34	22	23	38	38	31	19	16	22	28	21	24	36	26	26	39	50	42	36	46	50	760
crash	13	29	22	9	20	15	14	17	14	11	9	6	14	2	8	10	19	11	7	12	4	10	16	10	302
struck by flying or falling object	59	47	38	35	39	39	37	25	34	32	21	16	33	20	24	20	22	22	19	25	23	21	16	29	696
collapse	5	6	11	7	9	5	6	12	8	7	3	7	7	8	6	10	4	8	7	7	6	2	6	3	160
crashed by	12	18	26	21	18	15	10	16	19	22	10	17	14	13	11	15	9	8	9	12	14	9	13	13	344
caught in/between	131	110	116	119	123	121	95	96	116	84	60	57	73	64	60	60	62	58	61	56	62	63	71	68	1,986
cut	21	29	27	23	26	25	26	16	28	21	13	13	9	12	15	19	12	21	16	18	21	9	14	11	445
injury to the sole of the foot	1		1	1	1						1	1					2	2			1				11
drown													4												4
contact to high/low-	13	5	7	6	9	5	6	7	8	5	4	9	4	8	4	6	3	4	6	9	10	5	4	10	157

temperature																									
contact to harmful substance	2	2		3	2		7	4	2	2	2			3		2	1	1	1	1		1		1	37
electric shock		1				1		1								1						2	2		8
explosion	2	1					3		1	1					1	1		1					3		14
burst			1	1		1				1	1					1		1	1			2			10
fire			1	2	1			2		1		1									1	1			10
traffic accident (public road)	6	1	3	3	5	6	6	6	4	3	3	5		6	2		1	5	1	4	2	1	4		77
traffic accident (others)	1	6		1				1	1					1					1						12
reaction to motion/improper motion	19	48	28	17	27	28	26	31	34	26	17	26	17	23	20	25	27	28	29	29	27	27	42	34	655
others	1		1	2	1	3		2		2		1			1		1				2	12	33	2	64
unclassifiable					2	1		2								1	1			1			1		9
total	354	350	351	312	327	317	291	304	329	279	196	203	228	200	205	231	215	219	222	246	248	233	298	269	6,427

Causal agents (large) of fatal and non-fatal accidents in other transport equipment products 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	123	107	107	110	107	105	86	68	97	75	50	49	56	52	57	64	61	65	49	50	57	53	62	57	1,767

crane, conveying machine	44	51	49	38	50	52	38	47	60	41	29	37	33	30	31	22	30	27	29	35	39	25	40	33	910
other equipment	55	66	66	56	57	49	51	59	56	58	48	40	47	45	44	55	46	48	54	47	51	46	59	65	1,268
temporary buildings, establishments	43	32	46	41	29	32	32	43	30	30	22	31	29	29	29	30	27	23	31	46	38	52	50	45	840
substance, material	57	50	44	46	55	40	51	50	49	41	27	23	38	22	21	29	18	29	32	29	35	22	20	27	855
load	14	14	23	11	16	24	18	21	22	18	9	10	10	4	11	12	11	13	9	21	9	5	12	20	337
environment	5	2	3		2	2	2	3	2	1	1	3	8	3	2	7	3	4	6	4	4	6		5	78
others	13	28	13	10	11	13	13	13	13	15	10	10	7	15	10	12	19	10	12	14	15	24	55	17	372
total	354	350	351	312	327	317	291	304	329	279	196	203	228	200	205	231	215	219	222	246	248	233	298	269	6,427

Causal agents (middle) of fatal and non-fatal accidents in other transport equipment products 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	2			1	1	1								1			1								7
power transmission mechanism	4	6	2	3	2	2	3	2	4	1	2	3	1	3		1	3	1	1	1	2	1	3	1	52
woodworking machine	3	2	4	1	7	2	3	1	2		1	1		1		4		4	1	1	1	1	4	3	47

demolition machine							1																	1	
vehicle for high lift work							1						1											2	
other construction machines			2			1	1			1								1						6	
lathe			10		11		8	8	8	4	5	3	3	7	5	9	5	8	4	6	6	8	7	2	127
drill press, milling machine			11		9		9	6	13	9	4	3	4	3	7	7	5	5	3	4	4	7	5	5	123
grinding machine, buffing machine			8		3		11	4	6	9	6	6	5	5	2	5	8	8	6	3	9	7	3	6	120
power press			20		20		14	11	16	13	5	3	8	7	10	3	8	7	5	7	5	10	6	8	186
forging pressure hammer								1	1	1	2		1	1				1						2	10
shearing machine			1		1		1		2		1	1	2		1	4	2								16
other metal manufacturing machines			24		26		23	11	21	17	13	11	13	11	18	14	10	13	11	12	15	7	16	16	302
centrifugal machine																									
mixer, grinder										1		1	2			1	1		1						7
roll machine (except printingroll machine)			1							1	2		1		1	2	1	3		2					14

pressure vessel																				2				2		
other pressure vessels			2				1						1												4	
chemical facilities																							1	1		
gas welding equipment							1		1		1							1	2					6		
arc welding equipment			3		1		2		1	3		1	2	1	1	3	2		3	1	3	1	1	1	4	34
other welding equipment			2		2		2		3	2	3		2	2	2	2	1	2	2	2	2	2	2	2	4	39
kiln, caldron			1		2		3		2			3	1		1	1			1						15	
industrial dryer							1																		1	
other kiln, caldron																		1							1	
transmission										1													1		2	
electric power facilities								1		1															2	
other electrical equipment			1												1	1			1						4	
human power cranes			1									1	2				1			1	2	5			13	
human power hauling equipment			6		7		10	11	10	9	6	6	3	6	10	4	6	7	14	4	5	4	6	7	141	

human power machine				1		1	1	1								1	1			1				7
hand tool			9	12		4	14	14	6	4	4	4	5	2	7	5	5	8	11	6	8	6	5	139
ladder			6	9		11	9	10	18	12	4	14	6	8	9	11	10	11	7	8	13	12	14	202
slinging tool			5	5		1	3	3	7	3	2	5	6	5	7	2	2	1	8	5	3	2	3	78
other tools			13	13		6	8	6	6	10	10	10	8	5	15	9	12	9	6	10	6	16	12	190
other equipment, facilities			17	5		11	7	5	6	8	11	6	7	8	9	7	5	8	3	7	7	7	16	160
scaffolding			1			1		2	1	3		1		2				1			3		1	16
timbering																								
stairs, landing stage			11	1		2	5	7	6	3	7	6	12	9	7	7	6	3	10	8	9	7	9	135
opening			1	2					1		1					1				1			1	8
roof, beam, haze, crossbeam, principal rafter			3						1	1	2							1			1	1	1	11
working platform, boot board			4	6		4	8	3	7	7	5	5	3	1	3	4	7	6	6	5	5	5	6	100
passage			13	11		17	17	12	10	5	10	15	10	11	14	11	10	15	19	17	18	29	18	282
building, establishment			6	4		6	4	4	2	2	2	1	1	4	3	3		2	10	3	6	6	5	74
other temporary buildings,			7	5		2	9	2	2	1	4	1	3	2	3	1		3	1	4	10	2	4	66

environment											1							1						2	
high/cold temperature environment			1		1			1	2			2	1	3	1	2	1		2	3	2	3		3	28
other environments			1				2	1		1	1		3		1	4	2	3	3	1	1	3		1	28
other causal agent			4		1		6	1	2	7	2			5	1		1		3	2	2	11	33	4	85
no causal agent			9		7		7	10	11	8	7	9	7	10	8	10	17	10	9	11	13	13	21	13	210
unclassifiable					3			2			1	1			1	2	1			1			1		13
total	354	350	351	312	327	317	291	304	329	279	196	203	228	200	205	231	215	219	222	246	248	233	298	269	6,427

Workers age of fatal and non-fatal accidents in other transport equipment products 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	8	15	13	11	12	8	4	15	10	5	8	4	12	3	4	6	6	8	4	5	3	2	3	5	174
20-29	78	56	79	69	67	53	59	53	74	53	30	41	40	38	30	32	48	29	39	41	36	32	55	48	1,180
30-39	58	60	66	69	73	82	61	79	80	62	46	52	61	47	52	52	44	48	43	53	45	39	72	48	1,392
40-49	67	76	67	56	62	75	54	58	58	60	38	50	53	51	44	74	49	55	55	60	64	57	56	57	1,396
50-59	107	109	87	80	87	73	68	64	67	55	45	31	39	38	43	42	34	39	43	46	49	54	66	72	1,438
60 years old or more	36	34	39	27	26	26	45	35	40	44	29	25	23	23	32	25	34	40	38	41	51	49	46	39	847
total	354	350	351	312	327	317	291	304	329	279	196	203	228	200	205	231	215	219	222	246	248	233	298	269	6,427

Workers' number of workplace of fatal and non-fatal accidents in other transport equipment products 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	73	84	88	57	76	82	77	68	61	41	47	38	44	33	35	35	37	40	32	41	53	36	38	43	1,259
10-29	94	84	104	95	74	75	61	72	73	56	46	46	36	48	41	45	44	39	50	44	51	52	53	62	1,445
30-49	54	52	37	41	49	38	38	35	37	29	23	26	32	20	39	27	32	29	23	31	32	35	48	35	842
50-99	41	47	41	41	41	39	28	35	46	40	19	23	27	26	18	34	17	29	30	29	24	29	34	40	778
100-299	53	30	40	42	43	45	39	55	70	66	44	49	43	39	46	45	49	47	45	47	49	38	66	48	1,138
300 workers or more	39	53	41	36	44	38	48	39	42	47	17	21	46	34	26	45	36	35	42	54	39	43	59	41	965
total	354	350	351	312	327	317	291	304	329	279	196	203	228	200	205	231	215	219	222	246	248	233	298	269	6,427

Month of fatal and non-fatal accidents in other transport equipment products 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	24	30	40	32	29	32	28	26	23	18	22	17	16	18	17	19	19	22	18	20	22	19	17	20	548
February	25	25	27	29	28	37	21	27	32	33	19	20	19	16	17	26	17	23	25	22	16	23	28	22	577
March	30	38	37	28	22	18	14	26	32	30	17	14	22	21	20	18	19	20	14	17	14	24	27	19	541
April	29	19	28	17	26	27	25	13	28	24	19	14	14	18	17	14	20	13	23	21	14	28	38	22	511
May	28	19	24	19	24	23	31	25	30	22	15	18	10	20	12	17	17	15	18	27	17	18	24	23	496
June	31	40	28	31	25	25	28	21	20	20	15	23	30	18	14	16	27	22	15	19	21	16	28	23	556

July	43	38	39	28	30	32	28	26	33	23	14	21	21	17	20	27	21	19	30	18	28	19	23	26	624
August	26	35	27	23	28	27	24	31	25	26	17	14	17	16	12	18	19	11	16	24	23	13	33	24	529
September	35	33	34	22	40	30	22	28	28	27	11	14	25	16	20	19	10	32	16	20	25	23	21	38	589
October	31	26	23	31	29	25	26	28	31	27	15	19	18	9	22	26	19	19	16	19	22	20	21	22	544
November	28	31	20	28	25	18	25	22	26	16	11	19	19	16	19	14	12	12	17	17	24	12	21	15	467
December	24	16	24	24	21	23	19	31	21	13	21	10	17	15	15	17	15	11	14	22	22	18	17	15	445
total	354	350	351	312	327	317	291	304	329	279	196	203	228	200	205	231	215	219	222	246	248	233	298	269	6,427

Prefecture of fatal and non-fatal accidents in other transport equipment products 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	4	2	4				1	1	1	1	3	2	1	1	1	3	3	1		1		4	1	3	38
Aomori	1	2			1		1	1	2		1									1		1	1	1	13
Iwate	3	1			1		2				1					1						1	2		12
Miyagi		1	3		1		2	1	2	2	2	1	2				2	6	6	1	3	2	3	4	44
Akita		1	2						1											1			1		6
Yamagata		1			2		1	4	4	6				1	3		1	5	2	1	7		3	2	43
Fukushima	5	8	4		3		6	7	2	8	1	3	11	3	5	3	4	3	4	4	5	4	4	3	100
Ibaraki	14	8	10		7		14	5	6	12	10	13	13	9	5	9	4	3	5	6	10	8	8	7	186
Tochigi	13	9	8		12		12	10	9	18	11	12	11	4	8	11	10	18	13	7	12	9	8	7	232
Gunma	31	20	15		17		14	23	13	15	5	3	8	5	17	10	10	21	17	16	11	18	5	7	301

Saitama	19	27	18		37		13	18	23	17	8	14	9	6	5	7	9	4	10	15	18	13	17	8	315
Chiba	13	13	9		4		6	10	12	4	12	12	15	7	11	14	10	13	4	10	6	5	10	16	216
Tokyo	11	13	12		14		8	10	12	7	6	3	6	10	7	7	3	6	7	6	10	11	12	6	187
Kanagawa	22	20	17		21		29	27	20	16	17	10	15	10	11	15	14	14	10	13	13	8	20	26	368
Niigata	3	3	1		3		4	4	4	1	2	3	1	3	2	2	1	1	3	4	3	2	6	4	60
Toyama	4	1	6		1		1	3	1	4			1	2	3				1	1	1			1	31
Ishikawa	5	1	2		4			2	1	3	1	1	2	6	3	2			1	1	1	3	3	4	46
Fukui	1	1					1				2		1	1				1				1			9
Yamanashi		1	2		1		1	2	1	1		1	2		2	3	1	1		1			1	1	22
Nagano	4	3	2		2		3	2	8	5	3	4	9	4	5	12	1	6	4	7	12	3	10	11	120
Gifu	14	19	11		21		22	25	26	23	14	7	8	10	13	19	13	9	18	15	11	15	12	12	337
Shizuoka	15	7	10		10		17	17	9	6	6	10	12	10	4	12	10	11	11	13	16	9	9	15	239
Aichi	41	68	69		51		42	35	49	36	23	37	31	31	29	40	35	28	21	36	28	34	55	38	857
Mie	12	7	8		3		1	6	7	4	1	3	1	7	4	1	7	4	1	4	8	5	6	6	106
Shiga	4	5	3		3		4	3	5	4	3	3	5	3	1	6	6	4	4	5	5	8	11	4	99
Kyoto	6	5	10		5		2	3	8	4	2	2	3	4	6	3	3		4	4			4	4	82
Osaka	49	38	60		45		28	27	46	28	15	8	15	22	23	16	22	24	32	20	20	30	29	23	620
Hyogo	15	22	17		20		22	23	21	23	17	24	19	19	15	9	18	10	14	20	20	18	15	15	396
Nara		1	3		2					2	1	3		2	1	3	2	1	3	2	1	1	2	1	31
Wakayama	2	1	1				1		1	3							2			1				1	13
Tottori		1																	1	2				1	5

Shimane			2				1	3	2	4	1	2	5		1	1	3	1			1			2	29
Okayama	4	6	2		5		5	10	7	7	6	5	5	6	4	6	2	1	3	6	5	8	8	4	115
Hiroshima	9	6	5		5		7	9	9	6	5	6	5	4	4	7	6	4	4	2	4	5	6	11	129
Yamaguchi	8	5	6		3		6	6	3	3	2	3	1	2	2	1	3	6	4	4	6		7	6	87
Tokushima	3	1	4		1		2	1		1	2	1	2		1	1	2	2	2	2	1	1	1	1	32
Kagawa	2	3	3		3		1			2	2		2	3	1	1		2	1	2	1			5	34
Ehime	2				1				2									1	3				1		10
Kochi	1		2		1		1													3			1		9
Fukuoka	7	8	5		11		4	3	1	1	2	3		1	3	1		2	3	4	1	2	4	3	69
Saga	1	5	1		1		2							1	2			2	2					1	18
Nagasaki	3	1	2				1	1	5			1	2	1		1	1		1			1			21
Kumamoto	3	1	6		2		1	2	3	1	4	1	4	1	1	4	4	4	3	5	7	1	3	2	63
Oita		3	5		1		1				1			1											12
Miyazaki			1		1		1		1		2				1		2				1	2	8	2	22
Kagoshima		1			1				2	1	1	2			1		1								10
Okinawa											1		1										1	1	4
total	354	350	351	312	327	317	291	304	329	279	196	203	228	200	205	231	215	219	222	246	248	233	298	269	6,427

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.

drown													2											2
contact to high/low-temperature															1									1
contact to harmful substance														1										1
electric shock																								
explosion																								
burst																								
fire				1			1																	2
traffic accident (public road)	1													2						1				4
traffic accident (others)		1																						1
reaction to motion/improper motion																								
others																						1		1
unclassifiable																								
total	6	2	2	2	3	1	1	2	3	1		1	3	4	3	1			3	2		1	2	43

Causal agents (large) of fatal accidents in other transport equipment products in 1999-2022

environment																								
high/cold temperature environment													1	1										2
other environments																								
other causal agent																				1				1
no causal agent																								
unclassifiable																								
total	6	2	2	2	3	1	1	2	3	1		1	3	4	3	1			3	2		1	2	43

Workers age of fatal accidents in other transport equipment products 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	3							1																	4
30-39				1		1						1	1	1	1								1		7
40-49					1		1						1	2					1			1			7
50-59	1	2	2	1	2			1	2				1		1				1	2			1		17
60 years old or more	2								1	1				1	1	1			1						8
total	6	2	2	2	3	1	1	2	3	1		1	3	4	3	1			3	2		1	2	43	

