Fatal and non-fatal accidents in land cargo handling service in Japan in 1999-2022

land cargo handling service industry Code No.0501

Type of accidents in land cargo handling 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	178	192	233	232	243	207	238	273	239	214	162	187	206	177	185	194	186	220	247	205	216	202	241	233	5,110
falling to same level	125	118	151	128	132	129	157	140	176	203	173	171	193	186	197	239	224	242	270	332	336	349	384	372	5,127
crash	85	82	84	65	68	73	98	102	80	99	78	83	78	68	80	87	104	78	116	121	142	150	165	156	2,342
struck by flying or falling object	88	71	78	62	89	95	76	85	85	79	60	55	66	78	76	63	73	90	84	81	70	83	89	83	1,859
collapse	40	42	41	42	33	35	38	39	32	45	36	53	52	26	24	29	47	29	48	43	36	51	59	43	963
crashed by	78	78	83	81	72	103	89	99	81	100	91	80	81	82	75	95	97	86	117	123	126	129	120	146	2,312
caught in/between	202	201	185	184	218	206	215	207	187	213	163	177	156	164	168	159	161	168	176	189	210	214	222	225	4,570
cut	29	38	37	22	22	31	29	42	34	30	32	20	30	43	27	40	30	28	23	36	30	44	35	31	763
injury to the sole of the foot	2	2	3	2	1	2	3	2		5		1	2	1	1		3	1	3	1	1	1	3	3	43
drown				2		1							4												7
contact to high/low-temperature	8	3	8	11	8	6	2	10	6	9	2	7	2	8	10	17	8	20	15	23	22	22	15	20	262

contact to harmful substance	3	1	4		3	3	2	4	2			1	1	2	13	1			1		1	1	4	3	50
electric shock			1											2											3
explosion		1	1					2							1			1							6
burst	1	1	1			1				1	1						1	1							8
fire			1			1		2				1			1		1				2				9
traffic accident (public road)	17	23	30	46	39	29	37	25	55	39	28	42	22	32	35	30	18	26	27	26	27	25	30	30	738
traffic accident (others)	3	3	2	1			1	2	3	1	1		2	1	2	1		1		2	2	3	1	1	33
reaction to motion/improper motion	107	98	119	111	130	130	149	146	170	161	162	147	155	183	195	174	206	229	261	251	329	372	422	410	4,817
others	3	3	2	1	2	4	4	3	2	6	5	6	10	6	4	3	5	8	8	8	8	14	73	13	201
unclassifiable	1	1	2	2		1	1	1	2	1	1	2	2	4	2	5	1	2	2	1	3	2		4	43
total	970	958	1,066	992	1,060	1,057	1,139	1,184	1,154	1,206	995	1,033	1,062	1,063	1,096	1,137	1,165	1,230	1,398	1,442	1,561	1,662	1,863	1,773	29,266

Causal agents (large) of fatal and non-fatal accidents in land cargo handling 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	38	34	28	23	29	36	36	38	33	24	29	25	26	24	22	27	27	20	23	20	27	27	26	24	666
crane, conveying machine	364	391	427	430	421	430	445	463	443	441	313	365	333	319	364	362	315	356	381	396	392	406	378	425	9,360
other equipment	146	141	162	137	165	154	185	204	196	230	201	194	213	230	231	256	259	280	328	343	358	427	491	447	5,978

temporary buildings, establishments	140	136	147	150	160	130	185	171	161	191	170	182	196	193	169	203	234	233	263	292	315	289	343	303	4,956
substance, material	86	63	71	56	70	72	50	63	60	55	40	31	37	41	57	44	44	50	59	31	53	35	52	44	1,264
load	151	141	169	143	154	167	177	184	187	199	190	171	177	176	180	156	201	189	228	231	255	306	342	319	4,793
environment	5	2	12	12	9	8	4	11	7	15	5	14	19	18	18	25	12	22	24	44	31	34	23	38	412
others	40	50	50	41	52	60	57	50	67	51	47	51	61	62	55	64	73	80	92	85	130	138	208	173	1,837
total	970	958	1,066	992	1,060	1,057	1,139	1,184	1,154	1,206	995	1,033	1,062	1,063	1,096	1,137	1,165	1,230	1,398	1,442	1,561	1,662	1,863	1,773	29,266

Causal agents (middle) of fatal and non-fatal accidents in land cargo handling 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							2				1	1						2		7
power transmission mechanism	2	1			3	1	2	1	2		3	4	2		1		4	1	2	2	2	1	4	4	42
woodworking machine	11	14	10	7	3	9	8	11	7	5	7	6	7	10	6	10	7	7	1	4	3	6	2	3	164
construction machine	5	6	4	3	5	3	4	4	3	4	1	2	4	4	2		3	2	5	2	1	1	3		71
metal manufacturing machine	9	3	1	2	2	4	3	5	5	2	2	3		2	2		1	1	2	1	2	2	1	2	57

general machine	11	10	13	11	15	19	19	17	16	13	16	8	13	8	11	16	11	9	13	11	19	17	14	15	325
mobile silviculture machine																									
crane	31	30	27	34	20	17	19	16	16	25	16	10	10	19	10	12	15	8	12	9	18	9	18	14	415
conveying machine	316	340	382	368	379	396	396	426	380	382	258	317	310	280	326	320	285	329	350	354	356	366	333	385	8,334
vehicle	17	21	18	28	22	17	30	21	47	34	39	38	13	20	28	30	15	19	19	33	18	31	27	26	611
pressure vessel	2	1	4		1			1	1		2					1				1			1		15
chemical facilities					1		1			1															3
welding equipment			1	2	1											1					2				7
kiln, caldron			1		1	1		1	1			1							1						7
electric equipment		1	1				1	1	1	1	1			2		2		1		2		1	1	5	21
human power machine, tools	47	66	67	61	54	68	67	87	80	109	102	95	91	111	101	122	123	121	173	179	164	221	239	249	2,797
tools	81	62	68	61	89	73	93	90	101	98	66	80	104	97	102	116	115	129	125	125	160	157	198	155	2,545
other equipments, facilities	16	11	20	13	18	12	23	24	12	21	30	18	18	20	28	14	21	29	29	36	32	48	52	38	583
temporary buildings, establishments	140	136	147	150	160	130	185	171	161	191	170	182	196	193	169	203	234	233	263	292	315	289	343	303	4,956
hazards, harmful substances	4		3		5	3	2	3	2	2			1	2	14	4	2	1	1	2	2	2	6	2	63

materials	82	63	68	56	65	69	48	60	58	53	40	31	36	39	43	40	42	49	58	29	51	33	46	42	1,201
load	151	141	169	143	154	167	177	184	187	199	190	171	177	176	180	156	201	189	228	231	255	306	342	319	4,793
natural environment	5	2	12	12	9	8	4	11	7	15	5	14	19	18	18	25	12	22	24	44	31	34	23	38	412
other causal agent	11	20	17	5	4	8	9	4	11	9	5	7	14	10	11	7	14	12	16	5	17	19	79	28	342
no causal agent	27	29	31	32	47	49	48	44	55	41	39	43	45	48	41	53	57	66	73	79	107	116	127	144	1,441
unclassifiable	2	1	2	4	1	3		2	1	1	3	1	2	4	3	4	2	2	3	1	6	3	2	1	54
total	970	958	1,066	992	1,060	1,057	1,139	1,184	1,154	1,206	995	1,033	1,062	1,063	1,096	1,137	1,165	1,230	1,398	1,442	1,561	1,662	1,863	1,773	29,266

Causal agents (small) of fatal and non-fatal accidents in land cargo handling 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							2				1	1						2		7
power transmission mechanism					3		2	1	2		3	4	2		1		4	1	2	2	2	1	4	4	38
circular sawing machine			5		2		7	8	4	2	3	4	2	3	3	6	4	3		2	1	3	1	2	65
band sawing machine			1		1				2	1							1								6
wood planer machine														1											1
hollow chisel mortiser, wood borer			1								1														2

chamfering machine, router, woodworking milling machine																									
chain saw																						1			1
other woodworking machines			3				1	3	1	2	3	2	5	6	3	4	2	4	1	2	2	2	1	1	48
leveling, transporting or loading machine			2		3		1	2		2			1	2			2	1	3				1		20
excavating machine			2		1		1	2	1	1		1	2	2	1					1	1	1	1		18
foundation work machine																									
hardening machine									1								1	1							3
demolition machine																									
vehicle for high lift work									1	1					1				2	1					6
other construction machines					1		2				1	1	1										1		7
lathe																									
drill press, milling machine							1																		1
grinding machine, buffing machine					1			1			1	1								1	1			2	8

power press									1			1		1	1										4
forging pressure hammer																									
shearing machine								1							1						1	2			5
other metal manufacturing machines			1		1		2	3	4	2	1	1		1			1	1	2				1		21
centrifugal machine																									
mixer, grinder			1		1		1			2	1				1		1								8
roll machine (except printingroll machine)			1				1						1								2	1			6
injection molding machine																									
food manufacturing machine					1		3	1	1		2		2		1	3	2	1						1	18
printing machine					1																	1		1	3
industrial robot			1		1		1						1						1			1			6
other general power machines			10		11		13	16	15	11	13	8	9	8	9	13	8	8	12	11	17	14	14	13	233
felling machine																									
mobile logging machine																									

skyline yarding machine																									
other mobile silviculture machine																									
crane			8		10		11	6	6	15	5	3	3	9	2	7	9	3	6	7	9	4	6	6	135
mobile crane			14		7		7	6	6	8	7	4	2	6	2	3	3	2	5	1	2	1	7	2	95
derrick crane																									
elevator, lift			3		3			3	2	1	4	1	5	3	6	2	2	1	1	1	5	3	2	6	54
cargo lifting appliance										1												1			2
gondola																									
lumberyard equipment, logging cableway																							1		1
simple skyline yarding equipment																									
other powered crane			2				1	1	2			2		1			1	2			2		2		16
truck			169		170		173	184	171	153	106	139	125	111	129	122	100	135	151	132	126	130	130	153	2,809
forklift			164		156		168	186	166	162	119	138	145	130	155	147	142	156	153	166	181	185	146	177	3,142
railway equipment			1		2				3					2		2	1		1		1	1			14
conveyor			34		37		37	33	29	42	20	26	24	26	28	33	32	31	33	38	34	40	48	44	669
loader					1		1			1	2	1							1	1				2	10

straddle carrier																1			1						2
rough terrain hauler								1																	1
other powered conveying machines			14		13		17	22	11	24	11	13	16	11	14	15	10	7	10	17	14	10	9	9	267
cars, bus, motorcycle			16		18		26	18	45	33	34	31	12	17	26	26	11	15	16	31	14	28	19	23	459
railway vehicle			1		1		1				1	1		1				1	1		1		2		11
other vehicles			1		3		3	3	2	1	4	6	1	2	2	4	4	3	2	2	3	3	6	3	58
boiler																									
pressure vessel			1																						1
other pressure vessels			3		1			1	1		2					1				1			1		11
chemical facilities					1		1			1															3
gas welding equipment			1		1																				2
arc welding equipment																1					2				3
other welding equipment																									
kiln, caldron			1		1			1	1																4
industrial dryer																									
other kiln, caldron												1							1						2
transmission			1								1			2		2				1		1	1	4	13

electric power facilities																									
other electrical equipment							1	1	1	1								1		1				1	7
human power cranes			2		1		1	1		1		1		1	1	1		2	2	1	16	24	53	86	194
human power hauling equipment			45		39		49	68	65	90	81	81	73	88	85	100	109	105	156	153	134	171	157	146	1,995
human power machine			1				3	1	2		2	1	2		3		1	3	2			1	5	3	30
hand tool			19		14		14	17	13	18	19	12	16	22	12	21	13	11	13	25	14	25	24	14	336
ladder			19		23		21	24	35	22	16	23	22	26	25	34	32	27	35	24	38	45	53	30	574
slinging tool			6		7		5	8	5	3	1	4	2	5	1	2	3	5	2	1	6	4	4	2	76
other tools			43		59		67	58	61	73	49	53	80	66	76	80	80	97	88	100	116	108	141	123	1,618
other equipment, facilities			20		18		23	24	12	21	30	18	18	20	28	14	21	29	29	36	32	48	52	38	531
scaffolding			3		2		4	1	2		1	2		3	2	2			3	2	2	1	3	1	34
timbering																									
stairs, landing stage			21		33		30	37	33	41	32	27	37	36	25	31	48	44	34	48	55	51	70	62	795
opening			4		1		2	2	3	4	5	5	3	2	2	6	6	8	5	3	4	3	7	6	81
roof, beam, haze, crossbeam, principal rafter			1		2			3	2	3	1	1		2		3	1						2		21
working platform,																									

boot board			32		30		19	31	17	33	26	27	38	31	17	43	35	37	44	34	45	36	51	58	684
passage			39		48		70	46	50	59	64	76	77	69	79	80	81	102	121	149	143	135	149	113	1,750
building, establishment			22		24		32	27	33	28	26	23	25	30	27	21	39	24	33	37	31	26	32	32	572
other temporary buildings, establishments			25		20		28	24	21	23	15	21	16	20	17	17	24	18	23	19	35	37	29	31	463
explosive substance								1												1					2
inflammable substance			1		1										1	1	1	1							6
inflammable gas					1		1																1	1	4
harmful substance			1		3			2	2	1					12				1		1	1		1	25
radiation																									
other hazards, harmful substances			1				1			1			1	2	1	3	1			1	1	1	5		19
metal material			44		33		24	35	34	32	18	20	20	17	18	19	20	25	24	19	26	15	21	26	490
lumber, bamboo			14		20		15	15	14	13	10	7	7	12	12	7	7	9	19	7	9	8	9	7	221
stone, sand, substance					3		2		1	2			1		1	2				2	2				16
other materials			10		9		7	10	9	6	12	4	8	10	12	12	15	15	15	1	14	10	16	9	204
load			167		147		168	175	177	189	185	164	172	166	173	149	194	186	222	226	249	301	339	308	4,057
machine/equipment as load			2		7		9	9	10	10	5	7	5	10	7	7	7	3	6	5	6	5	3	11	134

natural ground, rock					2		1	1	1	1			2			1		1	1	1	1	2		1	16
standing tree											1					1				1	1	1	1		6
water					1								4	1	1				1	2		2			12
abnormal environment			1						1			1	1	2						1					7
high/cold temperature environment			2		3			4	3	7	1	6	3	8	9	11	5	18	14	20	21	21	11	19	186
other environments			9		3		3	6	2	7	3	7	9	7	8	12	7	3	8	19	8	8	11	18	158
other causal agent			17		4		9	4	11	9	5	7	14	10	11	7	14	12	16	5	17	19	79	28	298
no causal agent			31		47		48	44	55	41	39	43	45	48	41	53	57	66	73	79	107	116	127	144	1,304
unclassifiable			2		1			2	1	1	3	1	2	4	3	4	2	2	3	1	6	3	2	1	44
total	970	958	1,066	992	1,060	1,057	1,139	1,184	1,154	1,206	995	1,033	1,062	1,063	1,096	1,137	1,165	1,230	1,398	1,442	1,561	1,662	1,863	1,773	29,266

Workers age of fatal and non-fatal accidents in land cargo handling 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	25	26	27	18	24	28	28	19	27	21	12	16	21	19	23	19	21	28	25	20	31	31	33	32	574
20-29	233	230	235	205	250	213	233	202	190	221	165	147	151	138	128	139	150	156	188	187	187	212	258	242	4,660
30-39	212	222	253	252	268	270	312	329	316	294	245	236	246	240	244	241	222	211	247	233	259	219	275	266	6,112
40-49	176	188	194	194	192	203	217	228	265	289	232	263	283	306	321	346	341	357	399	386	410	435	483	388	7,096
50-59	253	220	269	249	264	243	248	318	259	260	216	244	212	227	253	234	276	296	347	406	419	503	527	515	7,258

60 years old or more	71	72	88	74	62	100	101	88	97	121	125	127	149	133	127	158	155	182	192	210	255	262	287	330	3,566
total	970	958	1,066	992	1,060	1,057	1,139	1,184	1,154	1,206	995	1,033	1,062	1,063	1,096	1,137	1,165	1,230	1,398	1,442	1,561	1,662	1,863	1,773	29,266

Workers' number of workplace of fatal and non-fatal accidents in land cargo handling 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	183	181	216	191	173	229	200	214	189	175	101	129	117	119	116	126	91	120	134	131	128	99	112	101	3,575
10-29	265	258	305	286	343	331	342	304	311	326	232	276	257	263	261	228	276	301	307	255	283	273	298	324	6,905
30-49	190	175	191	172	203	178	185	195	213	214	161	156	192	168	162	201	159	204	234	249	261	228	238	247	4,776
50-99	140	147	137	136	151	138	161	178	173	189	183	176	190	157	184	190	220	198	244	279	273	305	332	294	4,775
100-299	143	151	170	152	142	128	175	177	181	202	196	189	203	227	248	271	295	287	315	318	389	408	480	459	5,906
300 workers or more	49	46	47	55	48	53	76	116	87	100	122	107	103	129	125	121	124	120	164	210	227	349	403	348	3,329
total	970	958	1,066	992	1,060	1,057	1,139	1,184	1,154	1,206	995	1,033	1,062	1,063	1,096	1,137	1,165	1,230	1,398	1,442	1,561	1,662	1,863	1,773	29,266

Month of fatal and non-fatal accidents in land cargo handling 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	82	66	89	71	70	90	66	96	92	100	73	76	79	83	88	87	92	80	113	131	111	145	143	162	2,285
February	76	70	96	86	69	79	75	84	93	119	72	103	79	89	79	100	84	93	92	85	109	93	122	132	2,179
March	78	94	102	79	97	102	87	109	109	118	95	99	116	92	93	87	95	120	135	117	121	133	182	142	2,602
April	77	61	86	97	100	95	101	82	100	117	94	89	75	71	97	91	99	124	95	102	116	140	151	150	2,410

May	79	65	100	88	80	85	83	101	106	110	84	83	79	92	88	103	102	76	120	104	113	139	154	138	2,372
June	66	76	86	66	96	110	111	84	88	111	87	75	100	99	83	89	122	103	114	108	133	158	157	147	2,469
July	96	83	100	100	81	95	108	89	89	106	94	82	89	94	103	106	103	112	107	147	170	147	176	170	2,647
August	82	82	81	71	94	63	107	111	99	83	71	98	84	100	99	83	106	111	122	112	134	142	176	151	2,462
September	76	87	81	87	101	85	100	104	101	75	73	78	91	76	114	109	99	102	144	154	135	145	187	149	2,553
October	80	85	99	80	89	95	110	106	92	110	88	78	89	89	82	91	99	109	138	133	145	138	129	149	2,503
November	86	83	77	91	92	84	102	112	85	81	64	95	96	93	85	86	80	101	98	121	121	139	145	132	2,349
December	92	106	69	76	91	74	89	106	100	76	100	77	85	85	85	105	84	99	120	128	153	143	141	151	2,435
total	970	958	1,066	992	1,060	1,057	1,139	1,184	1,154	1,206	995	1,033	1,062	1,063	1,096	1,137	1,165	1,230	1,398	1,442	1,561	1,662	1,863	1,773	29,266

Prefecture of fatal and non-fatal accidents in land cargo handling 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	45	49	37		31		45	57	40	69	38	39	60	47	44	36	43	46	59	44	46	54	61	51	1,041
Aomori	4	5	3		3		3	4	7	2	3	10	1		1	1	1	2	1	1	1		1	2	56
Iwate	2	1	2		1		2	1				1	4		1	1	1	1	4	1	1		2	3	29
Miyagi	4	4	11		22		12	14	5	19	18	17	14	12	6	12	14	13	11	18	11	12	42	16	307
Akita	1	1	1		1		3					1			2									1	11
Yamagata		1	3		2		1		2	3				3	2	1						1	4	1	24
Fukushima	15	6	11		11		9	9	8	10	2	3	8	12	14	11	14	8	8	11	12	7	7	12	208
Ibaraki	23	16	19		23		34	30	31	29	29	27	31	28	30	35	23	21	31	32	42	42	48	45	669
Tochigi	3	9	8		22		10	14	12	18	33	49	19	19	11	12	18	14	18	18	19	21	28	26	401
Gunma	15	14	8		25		14	21	12	11	5	11	12	15	21	14	19	27	23	15	17	17	24	18	358

Saitama	56	76	76		95		120	155	145	126	112	120	139	114	120	135	121	116	136	121	169	199	167	190	2,808
Chiba	103	71	93		73		99	122	140	110	101	111	110	121	144	145	138	168	196	190	192	198	220	239	3,084
Tokyo	103	95	122		88		99	83	83	101	95	78	77	88	104	87	80	94	127	125	133	126	131	131	2,250
Kanagawa	91	98	85		106		122	105	101	128	112	113	122	138	134	113	167	165	196	198	232	262	340	284	3,412
Niigata	2	4	4		3		3	2	5	5	2	1	2		4	5	5	7	1	7	2	5	2	4	75
Toyama	3	3	3		7		2	4	7	1	2	7	2	6	2	4	3		3	2	5	3	2	10	81
Ishikawa	2	3	2		4		1	1	2	3	1	1	2	4	1		5	4	7	9	4	7	4	4	71
Fukui	3		4				2	1	2	3		1	2	4	2	3	3	1	1		2	1	4		39
Yamanashi	1				3		2		3	3					1	1	1	1	1	1	2	1	1	3	25
Nagano	2	5	6		4		1	3	6	3	6	3	2		1	1	5	4	5	3	5	2	4	3	74
Gifu	6	10	12		11		9	19	20	22	11	12	9	6	6	14	11	9	11	19	13	7	16	13	266
Shizuoka	15	16	32		23		24	16	25	31	8	8	21	19	12	27	25	23	25	36	36	38	20	31	511
Aichi	70	86	82		85		100	93	101	113	75	87	106	123	95	112	114	93	117	132	149	144	119	129	2,325
Mie	14	20	19		25		18	15	32	23	14	24	22	13	11	24	25	22	10	20	20	24	28	24	447
Shiga	3	8	4		6		6	5	9	6	2	4	8	5	9	3	1	8	4	9	6	2	10	10	128
Kyoto	9	3	11		14		17	15	20	12	6	9	12	10	7	16	12	8	7	12	10	14	42	41	307
Osaka	143	134	158		137		165	151	126	138	119	118	110	117	101	110	129	136	161	174	165	186	162	153	3,093
Hyogo	73	63	80		55		59	53	43	49	44	41	29	30	60	41	36	53	64	59	52	62	85	75	1,206
Nara	5	4	2		1		4	2		4	6	3	1	1	1	4	1	3	1	9	1	2	3	4	62
Wakayama	1	2	3				1		2	1		1	4	2	2	2	3	5	5	5	6	5	4	4	58
Tottori	2				2				3			1	3			2	1	1		1	2		1		19
Shimane								1		1	1		1	2								1			7

Okayama	15	13	10		19		11	17	25	12	17	14	8	6	12	6	10	16	13	14	14	18	16	13	299
Hiroshima	19	9	13		21		15	21	15	11	23	15	15	16	22	25	16	21	19	24	25	23	25	25	418
Yamaguchi	13	7	9		7		14	13	3	4	3	9	8	15	6	9	3	12	5	6	4	7	4	3	164
Tokushima	8		4		8			3	2	3	3	1		1	3	2			1			1	3	2	45
Kagawa	12	9	5		4		2	10	5	6	7	5	11	5	5	9	6	8	13	7	13	8	6	7	163
Ehime	7	6	9		6		11	6	8	3	4	4	6	3	7	6	5	7	4	5	8	7	8	8	138
Kochi	10	8	17		8		2	4	2	1		2	1		3	1		4	3		2	1	3		72
Fukuoka	29	52	61		51		58	57	62	53	47	47	45	51	59	64	61	55	60	70	98	105	129	123	1,437
Saga	10	17	9		9		7	23	19	27	18	9	11	9	12	19	19	24	19	17	19	27	61	21	406
Nagasaki	4	10	5		4		7	4	1	7	3	1	4	5	4	6	7	4		3	1	2	4	9	95
Kumamoto	4	7	9		5		6	7	3	6	4	6	9	2	6	4	5	3	3	5	6	3	4	2	109
Oita	4	3	4		2		4	2	3	3	2	3			1	1	1	1	3	1		1	2	2	43
Miyazaki	7	4	3		19		6	11	8	16	6	5	3	4	4	5	3	6	6	5	4	8	8	13	154
Kagoshima	4	6	5		10		5	7	2	6	11	6	6	3	1	4	8	10	10	8	8	4	3	11	138
Okinawa	5		2		4		4	3	4	4	2	5	2	4	2	4	2	6	6	5	4	4	5	7	84
total	970	958	1,066	992	1,060	1,057	1,139	1,184	1,154	1,206	995	1,033	1,062	1,063	1,096	1,137	1,165	1,230	1,398	1,442	1,561	1,662	1,863	1,773	29,266

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 land cargo handling service in Japan in 1999-2022

land cargo handling service industry Code No.0501

Type of fatal accidents in land cargo handling 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	3	3	2	3	1	1	3	3	2	3	1		4	1		1		1	1	2	2	2		2	41
falling to same level		2		1							1	1													5
crash	1							1					1									1		2	6
struck by flying or falling object	1	1		1	1	2		1	1			1						1	1			1			12
collapse	2		3	1		1				2	1			1			4	1	1	1	1		1	1	21
crashed by	1	1	1		2	1	1				1	3		1			1				1		1		15
caught in/between	1				2	3	2	2	3		1	3	1	1		1	1	2	3			1	1	1	29
cut																									
injury to the sole of the foot																									
drown				1		1							3												5
contact to high/low-temperature									1							1				2					4
contact to harmful substance												1													1
electric shock																									
explosion															1										1

burst																									
fire								2													2				4
traffic accident (public road)	1	2	2	3		1	1	2	3	1	1					1						4			22
traffic accident (others)	1																								1
reaction to motion/improper motion																									
others													2			1	1	1	1	1					7
unclassifiable																									
total	11	9	8	10	6	10	7	11	10	6	6	9	11	4	1	5	7	6	7	6	6	9	3	6	174

Causal agents (large) of fatal accidents in land cargo handling 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	1	1			1			2				1		1				1	1						9
crane, conveying machine	7	4	5	7	5	5	5	6	6	2	2	6	4	2		3	3	3	4	2	2	9	3	5	100
other equipment		1	1	1				1	1					1			1		1		2				10
temporary buildings, establishments		3					1	1	1	2	1		2		1						1				13
substance, material	1		1			2																			4
load	2		1	1		2	1	1	1	2	2	1					2	1		1	1			1	20
environment				1					1			1	4			1				2					10
others						1					1		1			1	1	1	1	1					8
total	11	9	8	10	6	10	7	11	10	6	6	9	11	4	1	5	7	6	7	6	6	9	3	6	174

Causal agents (middle) of fatal accidents in land cargo handling 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	1				1									1											3
metal manufacturing machine		1						2																	3
general machine												1						1	1						3
mobile silviculture machine																									
crane	1				1			1										1			1	1			6
conveying machine	6	4	5	6	4	4	5	5	3	1	1	6	4	2		2	3	2	4	2	1	6	3	5	84
vehicle				1		1			3	1	1					1						2			10
pressure vessel																									
chemical facilities																									
welding equipment																					2				2
kiln, caldron																									
electric equipment																									
human power machine, tools			1	1															1						3
tools		1						1	1					1			1								5
other equipments, facilities																									

temporary buildings, establishments		3					1	1	1	2	1		2		1						1				13
hazards, harmful substances																									
materials	1		1			2																			4
load	2		1	1		2	1	1	1	2	2	1					2	1		1	1			1	20
natural environment				1					1			1	4			1				2					10
other causal agent																									
no causal agent											1		1			1	1	1	1	1					7
unclassifiable						1																			1
total	11	9	8	10	6	10	7	11	10	6	6	9	11	4	1	5	7	6	7	6	6	9	3	6	174

Causal agents (small) of fatal accidents in land cargo handling 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	1				1									1											3
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						2																	3
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	1						3
felling machine																									
mobile logging machine																									
skyline yarding machine																									
other mobile silviculture machine																									
crane					1													1			1	1			4
mobile crane	1																								1
derrick crane																									
elevator, lift								1																	1
cargo lifting appliance																									
gondola																									
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane																									
truck	3	2	2	2	3	1	2	2		1	1	1	1	1			2					3		1	28
forklift	2	2	3	4	1	3	3	3	3			5	3	1		1		2	3	2	1	3	2	4	51

railway equipment	1															1									2
conveyor																			1				1		2
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines																	1								1
cars, bus, motorcycle				1		1			3	1	1					1						2			10
railway vehicle																									
other vehicles																									
boiler																									
pressure vessel																									
other pressure vessels																									
chemical facilities																									
gas welding equipment																									
arc welding equipment																					2				2
other welding equipment																									
kiln, caldron																									
industrial dryer																									
other kiln, caldron																									
transmission																									
electric power facilities																									

other electrical equipment																									
human power cranes			1																1						2
human power hauling equipment				1																					1
human power machine																									
hand tool																									
ladder								1																	1
slinging tool		1															1								2
other tools									1					1											2
other equipment, facilities																									
scaffolding																									
timbering																									
stairs, landing stage										1															1
opening		1							1																2
roof, beam, haze, crossbeam, principal rafter																									
working platform, boot board		1																			1				2
passage																									
building, establishment							1	1		1	1		2		1										7
other temporary buildings, establishments		1																							1
explosive substance																									
inflammable substance																									

inflammable gas																									
harmful substance																									
radiation																									
other hazards, harmful substances																									
metal material						2																			2
lumber, bamboo			1																						1
stone, sand, substance																									
other materials	1																								1
load	2		1	1		1	1	1	1	2	2	1					2	1		1	1			1	19
machine/equipment as load						1																			1
natural ground, rock																									
standing tree																									
water				1									4												5
abnormal environment												1													1
high/cold temperature environment									1							1				2					4
other environments																									
other causal agent																									
no causal agent											1		1			1	1	1	1	1					7
unclassifiable						1																			1
total	11	9	8	10	6	10	7	11	10	6	6	9	11	4	1	5	7	6	7	6	6	9	3	6	174

Workers age of fatal accidents in land cargo handling 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								1					1			5
20-29	3	1		1					1	2		1				2	1	1		1		2			16
30-39	1	4	4	2	1	2	1	2	2	1	1	2	4	2			1	1	2		1				34
40-49	2		3	2	1	1	1	2	4		3		5			2		2	2		2			1	33
50-59	4	4	1	4	4	3	2	5		2		2	1	2	1		2	1	3	2	3	4	2	1	53
60 years old or more	1			1		4	2	1	2	1	2	4	1			1	2	1		3		2	1	4	33
total	11	9	8	10	6	10	7	11	10	6	6	9	11	4	1	5	7	6	7	6	6	9	3	6	174

Workers' number of workplace of fatal accidents in land cargo handling 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	3	1	2		1	5	1	5		1	2	3	2			2	2	1	1	1	3	1		1	38
10-29	2	5	1	5	4	2	2	4	4	3		3	4		1	1	1	3	2	1		2		1	51
30-49	2	1	2		1	2	2		1	2	2	2	3	1			2		1	2		4	1	3	34
50-99	2	1	2	2		1	1	2	4				1			1			1	1		1	1		21
100-299	1	1	1	2					1		2	1		2			1	2		1	1	1	1	1	19
300 workers or more	1			1			1						1	1		1	1		2		2				11
total	11	9	8	10	6	10	7	11	10	6	6	9	11	4	1	5	7	6	7	6	6	9	3	6	174

Month of fatal accidents in land cargo handling 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	2		1	1	1	1	1			2					1			1	1	1			1	15
February			1	1	1	1						2	1	1			1	1		1	3				14
March	2			2	1	1	2	1		2			4					3				1		1	20
April	2	1	1			1		1	4		1	1	2					1						1	16
May				1				1	2				1				1		1	1					8
June				2		1	1	2			1	1	1			2	1					1	1	1	15
July	1	1	1		1					1	1			2				1		1	1				11
August	2							1	1	1				1		2			2						10
September	2					1	1	3	2		1		1						1	1		3			16
October			2	1	1	2		1	1				1				2					1		1	13
November	1	1		1		2	1			1		4			1		1			1	1	2	1		18
December		4	3	1	1		1			1		1					1		2			1	1	1	18
total	11	9	8	10	6	10	7	11	10	6	6	9	11	4	1	5	7	6	7	6	6	9	3	6	174

Prefecture of fatal accidents in land cargo handling 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	3	5	1	1	3					1					2			18
Aomori																									
Iwate													1												1

Miyagi													3							1			1		5
Akita																									
Yamagata																									
Fukushima			2													1									3
Ibaraki	1					1					1		1			1			1						6
Tochigi			1							1						1									3
Gunma																									
Saitama		1		2					1	1		1		1		1		2			2	1			13
Chiba	1			3	1		3	2			3			1			2	1	2	1				1	21
Tokyo	2			1				1	1	1			1	1							2	1		1	12
Kanagawa				1		2	2	2					3		1		1					1		3	16
Niigata																									
Toyama																									
Ishikawa																									
Fukui																									
Yamanashi																									
Nagano						1																			1
Gifu													1												1
Shizuoka				1		1														1					3
Aichi	2	2																1	2	1	1	1			10
Mie			1									1											1		3
Shiga						1																			1

Kyoto						1																			1
Osaka		2			3		1	1	1	1		1						1		2	1		1		15
Hyogo		1	2		1	1		2	1			1													9
Nara		1																							1
Wakayama																									
Tottori																									
Shimane																									
Okayama												1													1
Hiroshima	3										1		1						1						6
Yamaguchi	1			1										1								1			4
Tokushima																									
Kagawa																									
Ehime									1																1
Kochi																									
Fukuoka	1	1		1	1	1						1				1	2	1	1			1		1	13
Saga																						1			1
Nagasaki																									
Kumamoto		1	2																						3
Oita										1															1
Miyazaki																									
Kagoshima																	1								1
Okinawa																									

total	11	9	8	10	6	10	7	11	10	6	6	9	11	4	1	5	7	6	7	6	6	9	3	6	174

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

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