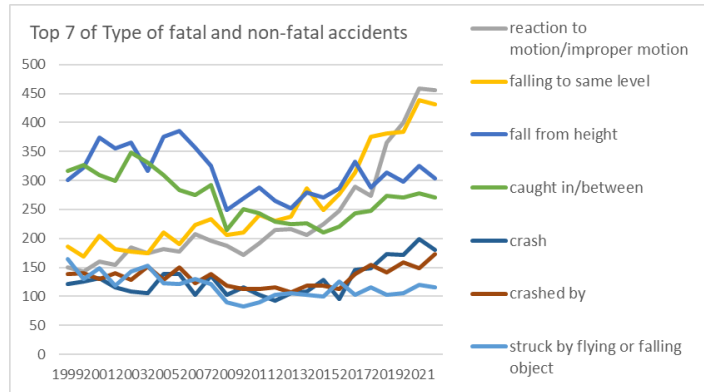
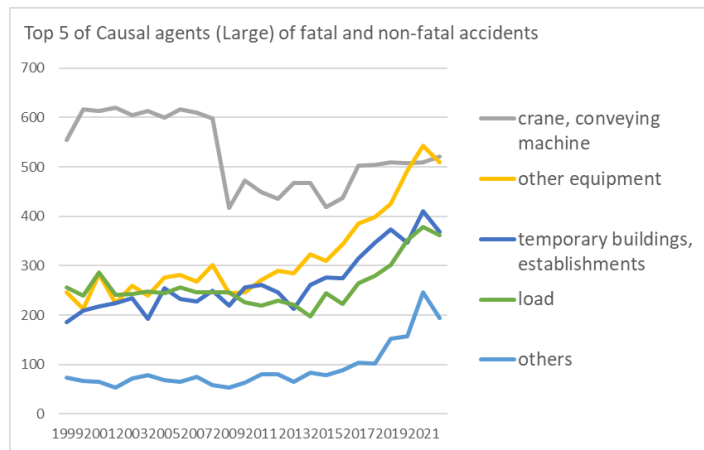


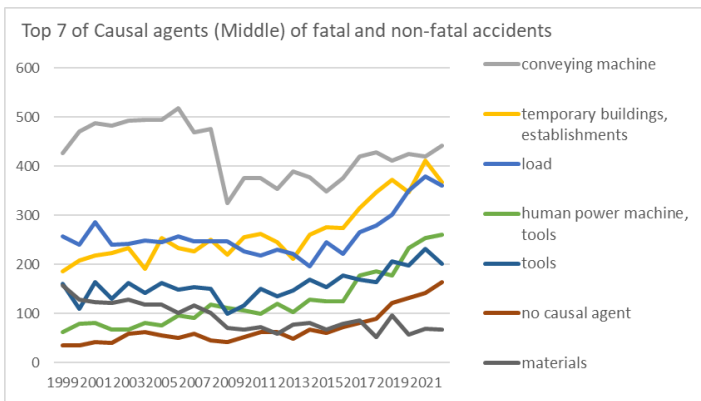
Transition of fatal and non-fatal accidents in 05 cargo handling service in Japan (1999-2022)



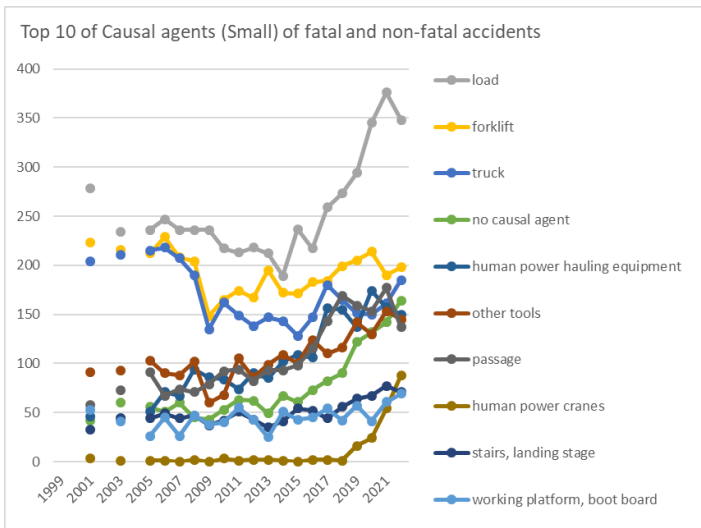
Transition of Top 7 of Type of fatal and non-fatal accidents in 05 cargo handling service in Japan (1999-2022)



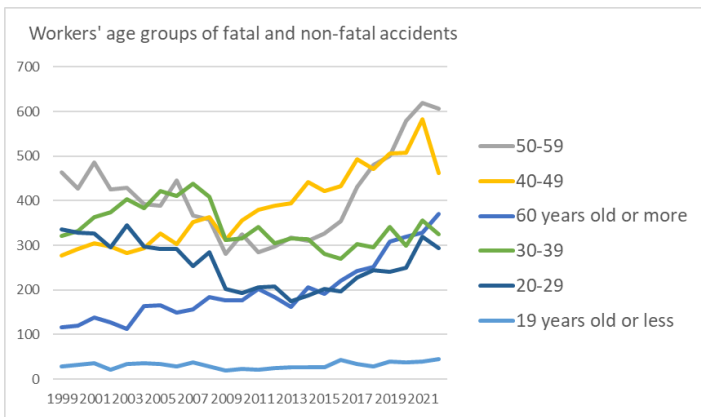
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 05 cargo handling service in Japan (1999-2022)



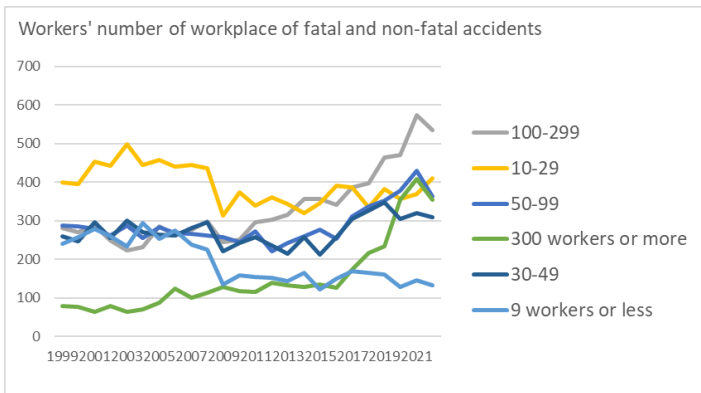
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 05 cargo handling service in Japan (1999-2022)



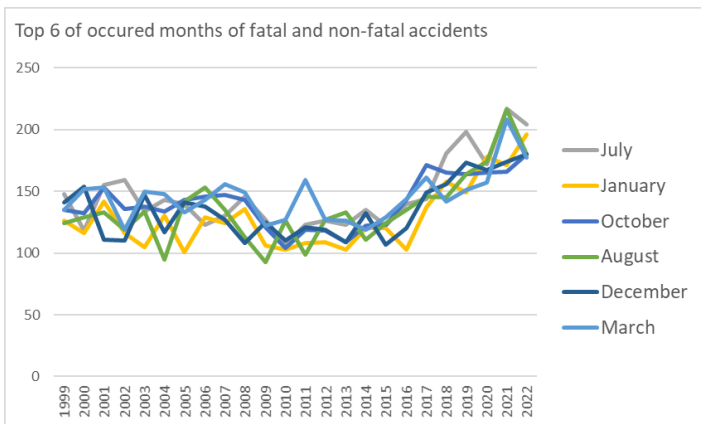
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 05 cargo handling service in Japan (1999-2022)



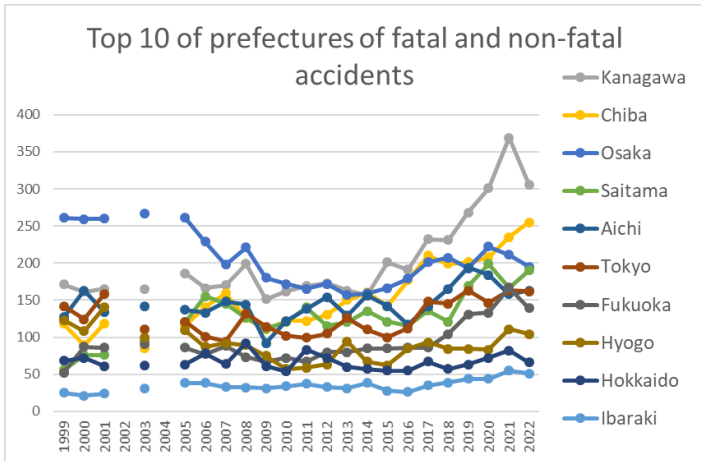
Transition of workers' age groups of fatal and non-fatal accidents in 05 cargo handling service in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 05 cargo handling service in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 05 cargo handling service in Japan (1999-2022)



Transition of Top 10 of prefectures of fatal and non-fatal accidents in 05 cargo handling service in Japan (1999-2022)

Transition of Type of fatal and non-fatal accidents in 05 cargo handling service in Japan (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	Type of accidents
reaction to motion/improper motion	150	143	160	154	184	174	181	178	208	196	187	172	191	215	216	206	225	247	290	274	365	400	459	456	5,631	reaction to motion/improper motion
falling to same level	186	169	205	182	177	175	211	190	223	233	206	210	240	231	237	286	249	277	313	375	381	384	438	431	6,209	falling to same level
fall from height	301	323	374	356	365	317	375	385	357	325	249	269	288	265	252	279	271	286	333	288	313	298	325	303	7,497	fall from height
caught in/between	317	326	309	299	348	331	309	284	275	292	215	250	243	229	224	226	211	221	244	248	273	270	278	271	6,493	caught in/between
crash	121	126	131	115	108	106	139	138	103	135	103	116	102	93	105	109	128	95	145	148	173	171	199	180	3,089	crash
crashed by	139	140	130	140	128	152	128	150	123	139	119	113	113	116	107	119	119	113	139	154	142	158	149	173	3,203	crashed by
struck by flying or falling object	164	130	148	119	143	153	123	122	130	122	90	83	89	102	105	103	100	125	103	115	103	106	120	115	2,813	struck by flying or falling object
collapse	63	64	68	59	48	55	55	61	47	64	44	68	66	35	40	43	60	36	55	53	45	64	68	53	1,314	collapse
cut	39	50	56	32	36	40	37	56	44	42	43	26	34	49	33	43	35	33	28	40	42	53	42	37	970	cut

traffic accident (public road)	28	32	37	53	46	35	47	30	70	42	32	50	27	36	36	37	22	32	41	34	50	34	38	33	922	traffic accident (public road)
contact to high/low-temperature	14	10	12	15	10	10	3	12	10	17	2	14	8	13	12	23	10	29	21	28	25	24	18	22	362	contact to high/low-temperature
others	6	5	5	2	4	6	5	5	2	8	5	7	13	8	4	5	6	9	8	10	12	21	97	14	267	others
injury to the sole of the foot	3	2	5	3	3	2	3	4	1	5		1	2	3	1		6	3	3	1	1	3	6	5	66	injury to the sole of the foot
unclassifiable	1	1	2	2	1	1	2	2	2	2	2	3	2	4	2	5	1	2	2	1	6	2		4	52	unclassifiable
contact to harmful substance	6	3	6	3	4	3	5	5	6	3		1	2	4	13	1	2	1	1	1	1	1	4	3	79	contact to harmful substance
traffic accident (others)	3	4	4	1		1	2	2	5	1	2		3	2	3	1	1	1		2	3	3	2	2	48	traffic accident (others)
drown	1	1		7	1	3	2			1	1		12				1	2	2				1		35	drown
fire	1		1			1		3			1	1			1		1	1			2				13	fire
burst	1	1	1	1		1				1	1						1	1							9	burst
explosion		1	1					2				1			1			1					1		8	explosion
electric shock			1				1					1		2				1	1						7	electric shock
total	1,544	1,531	1,656	1,543	1,606	1,566	1,628	1,629	1,606	1,628	1,302	1,386	1,435	1,407	1,392	1,486	1,449	1,516	1,729	1,772	1,937	1,992	2,245	2,102	39,087	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 05 cargo handling service in Japan (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	Causal (L) agents
crane, conveying machine	555	616	613	619	605	613	600	617	610	598	417	473	449	436	467	467	418	437	502	505	510	507	510	521	12,665	crane, conveying machine

other equipment	247	212	283	225	259	239	276	281	268	302	245	247	272	289	285	323	310	343	386	398	426	492	543	510	7,661	other equipment
temporary buildings, establishments	186	209	218	224	234	192	254	233	227	250	220	256	262	246	212	261	276	275	315	347	373	347	411	368	6,396	temporary buildings, establishments
load	257	240	286	241	242	248	245	257	247	247	247	226	219	230	221	197	245	222	265	279	301	351	379	361	6,253	load
others	74	67	65	54	72	79	68	65	75	59	53	63	81	80	65	83	79	88	103	102	152	158	246	194	2,225	others
substance, material	166	131	129	124	134	122	122	107	124	107	72	67	76	63	91	89	71	82	87	56	98	60	76	71	2,325	substance, material
environment	13	7	17	20	15	16	13	14	12	21	8	21	35	27	21	31	17	36	33	52	37	39	34	44	583	environment
machine	46	49	45	36	45	57	50	55	43	44	40	33	41	36	30	35	33	33	38	33	40	38	46	33	979	machine
total	1,544	1,531	1,656	1,543	1,606	1,566	1,628	1,629	1,606	1,628	1,302	1,386	1,435	1,407	1,392	1,486	1,449	1,516	1,729	1,772	1,937	1,992	2,245	2,102	39,087	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 05 cargo handling service in Japan (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	Causal (M) agents
conveying machine	426	471	487	483	493	494	494	518	468	476	325	375	375	354	389	378	348	376	419	428	412	424	419	442	10,274	conveying machine
temporary buildings, establishments	186	209	218	224	234	192	254	233	227	250	220	256	262	246	212	261	276	275	315	347	373	347	411	368	6,396	temporary buildings, establishments
load	257	240	286	241	242	248	245	257	247	247	247	226	219	230	221	197	245	222	265	279	301	351	379	361	6,253	load
human power machine, tools	62	80	81	68	67	81	76	97	91	119	112	106	99	120	104	128	125	126	177	186	178	234	254	261	3,032	human power machine, tools
tools	161	110	165	131	163	142	163	149	154	151	99	116	150	135	147	169	154	177	169	164	206	198	232	201	3,806	tools
no causal agent	36	35	42	41	60	63	56	51	60	45	43	53	63	62	49	67	61	73	82	90	122	132	142	164	1,692	no causal agent

																										agent
materials	158	129	123	121	129	119	118	102	117	101	71	67	73	60	77	82	68	80	86	53	96	58	70	68	2,226	materials
vehicle	50	50	49	59	49	50	55	51	89	63	58	63	34	41	47	49	34	30	45	58	60	55	54	44	1,237	vehicle
natural environment	13	7	17	20	15	16	13	14	12	21	8	21	35	27	21	31	17	36	33	52	37	39	34	44	583	natural environment
other equipments, facilities	22	19	30	22	24	15	33	32	20	29	31	23	22	31	34	22	31	39	38	44	38	59	54	43	755	other equipments, facilities
crane	79	95	77	77	63	69	51	48	53	59	34	35	40	41	31	40	36	31	38	19	38	28	37	35	1,154	crane
other causal agent	35	31	21	9	9	13	11	11	12	13	7	8	16	13	13	11	16	13	18	11	21	23	102	29	466	other causal agent
general machine	13	10	14	12	19	21	21	20	18	13	17	9	15	13	13	17	12	14	14	14	22	21	19	16	377	general machine
power transmission mechanism	2	5			4	4	4	1	2		3	4	4	1	1		4	1	3	4	3	1	4	6	61	power transmission mechanism
electric equipment		2	1	1			2	1	1	1	1	1	1	2		2		1	1	2		1	2	5	28	electric equipment
construction machine	7	8	10	10	11	13	8	10	6	13	4	8	9	9	7	5	6	8	14	7	5	7	16	4	205	construction machine
metal manufacturing machine	10	5	3	2	3	4	4	7	8	2	4	3		2	3		1	1	4	1	2	2	1	4	76	metal manufacturing machine
woodworking machine	14	20	18	12	7	15	13	17	9	14	11	7	13	10	6	12	9	8	3	6	8	7	4	3	246	woodworking machine
hazards, harmful substances	8	2	6	3	5	3	4	5	7	6	1		3	3	14	7	3	2	1	3	2	2	6	3	99	hazards, harmful

																										substances
unclassifiable	3	1	2	4	3	3	1	3	3	1	3	2	2	5	3	5	2	2	3	1	9	3	2	1	67	unclassifiable
pressure vessel	2	1	4		1			1	1		2				1				1	1		1		16	pressure vessel	
engine		1			1					2	1	2		1		1	1					2		12	engine	
welding equipment			1	3	1		1			1				1		1					3			12	welding equipment	
kiln, caldron			1		1	1		1	1			1							1	1				8	kiln, caldron	
chemical facilities					2		1			1														4	chemical facilities	
mobile silviculture machine																		1		1				2	mobile silviculture machine	
total	1,544	1,531	1,656	1,543	1,606	1,566	1,628	1,629	1,606	1,628	1,302	1,386	1,435	1,407	1,392	1,486	1,449	1,516	1,729	1,772	1,937	1,992	2,245	2,102	39,087	total

Transition of Causal agents (Small) of fatal and non-fatal accidents in 05 cargo handling service in Japan (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	Causal (S) agents
load			278		234		236	247	236	236	236	217	213	218	212	189	237	217	259	273	294	345	376	348	5,101	load
forklift			223		216		212	229	208	204	148	165	174	167	195	172	171	183	184	199	205	214	190	198	3,857	forklift
truck			204		211		215	218	207	190	135	162	149	138	147	143	128	147	180	165	151	150	161	185	3,386	truck
no causal agent			42		60		56	51	60	45	43	53	63	62	49	67	61	73	82	90	122	132	142	164	1,517	no causal agent
human power hauling equipment			46		44		51	71	67	94	86	84	74	90	85	102	109	106	156	155	137	174	157	150	2,038	human power hauling equipment
other tools			91		93		103	90	88	102	60	68	105	86	99	109	100	124	110	116	142	130	153	145	2,114	other tools
passage			58		73		91	67	74	71	79	92	94	82	93	93	98	115	143	169	159	153	177	137	2,118	passage
human power cranes			3		1		1	1		2		3	1	2	2	1		2	2	1	16	24	54	88	204	human power cranes

as load			8		8		9	10	11	11	11	9	6	12	9	8	8	5	6	6	7	6	3	13	166	as load
opening			6		6		6	2	5	9	11	10	6	6	4	9	8	10	6	13	8	7	9	12	153	opening
other powered conveying machines			22		15		21	29	16	28	14	16	21	13	15	19	10	8	13	19	15	13	12	10	329	other powered conveying machines
other materials			15		13		12	13	16	13	13	7	12	11	14	18	17	16	16	1	18	14	18	10	267	other materials
slinging tool			25		25		16	23	19	15	14	12	11	10	11	10	12	14	11	8	13	11	12	9	281	slinging tool
mobile crane			31		24		18	12	16	17	10	8	12	9	5	6	12	6	15	4	9	6	10	7	237	mobile crane
elevator, lift			4		4		3	3	2	5	2	6	3	6	2	3	1	2	1	6	4	2	7	66	elevator, lift	
power transmission mechanism					4		4	1	2		3	4	4	1	1		4	1	3	4	3	1	4	6	50	power transmission mechanism
cargo lifting appliance			6		6		5	6	6	4	1	5	3	1	6	5	1	6	4	3	2	4	2	4	80	cargo lifting appliance
grinding machine, buffing machine			2		2			2	2		2	1			1					1	1			4	18	grinding machine, buffing machine
transmission			1								1		1	2		2			1	1		1	1	4	15	transmission
human power machine			1		1		5	4	2		2	1	2		3		1	3	2		1	1	6	3	38	human power machine
circular sawing machine			8		5		9	11	4	5	4	4	6	3	3	8	4	4	1	2	5	3	3	2	94	circular sawing machine
excavating machine			5		3		1	4	2	4	1	3	6	4	2	4		2	2	3	4	3	5	2	60	excavating machine
scaffolding			5		5		6	1	5	1	1	3		3	2	3			3	3	3	2	4	2	52	scaffolding
loader			1		3		3	2	1	3	3	1	2	2		1	1	2	2	1		5	2	2	37	loader
straddle carrier					3					5		1	2	1	1	4		2	1	2	1		1	2	26	straddle carrier
leveling, transporting or loading machine			4		5		5	5	2	8	2	4	2	4	3	1	5	4	9	3	1	4	9	1	81	leveling, transporting or loading machine

other woodworking machines			5			1	3	2	4	4	2	6	6	3	4	2	4	2	2	2	2	3	1	1	57	other woodworking machines
unclassifiable			2		3		1	3	3	1	3	2	2	5	3	5	2	2	3	1	9	3	2	1	56	unclassifiable
harmful substance			3		3			2	6	4			1	1	12	1			1	1	1	1		1	38	harmful substance
other hazards, harmful substances			1				3		1	2			1	2	1	4	2	1		1	1	1	5	1	27	other hazards, harmful substances
water					1		1						12	1	1			2	2	2	1	2	1	1	27	water
natural ground, rock					2		2	2	1	1	1		2	1		1		1	1	1	1	2	1	1	21	natural ground, rock
food manufacturing machine					1		3	2	1		2		2		1	3	2	1						1	19	food manufacturing machine
other electrical equipment							1	1	1	1								1		1				1	7	other electrical equipment
inflammable gas					1		1						1										1	1	5	inflammable gas
printing machine					1																	1		1	3	printing machine
demolition machine																			1					1	2	demolition machine
other powered crane			4		1		3	2	2	1	1	3	1	1	2	3	1	3	1	1	2		4		36	other powered crane
stone, sand, substance			2		3		2	3	1	3	2		1		1	4			1	3	4		1		31	stone, sand, substance
roof, beam, haze, crossbeam, principal rafter			2		3			3	2	3	1	3		3	1	4	2						2		29	roof, beam, haze, crossbeam, principal rafter
other metal manufacturing machines			1		1		3	4	5	2	2	1		1			1	1	3				1		26	other metal manufacturing machines
chain saw			3		1		3	2	1	4	2	1	1				2			2	1	1			24	chain saw

chemical facilities				2		1			1													4	chemical facilities	
kiln, caldron			1	1			1	1															4	kiln, caldron
explosive substance			1				2										1						4	explosive substance
hollow chisel mortiser, wood borer			1					1				1											3	hollow chisel mortiser, wood borer
hardening machine								1						1	1								3	hardening machine
arc welding equipment													1					2					3	arc welding equipment
electric power facilities						1					1									1			3	electric power facilities
drill press, milling machine						1										1							2	drill press, milling machine
lumberyard equipment, logging cableway																	1		1				2	lumberyard equipment, logging cableway
rough terrain hauler							1											1					2	rough terrain hauler
pressure vessel			1														1						2	pressure vessel
other kiln, caldron										1						1							2	other kiln, caldron
wood planer machine											1												1	wood planer machine
skyline yarding machine														1									1	skyline yarding machine
other mobile silviculture machine																1							1	other mobile silviculture machine
gondola													1										1	gondola
industrial dryer																1							1	industrial dryer

50-59	464	427	486	426	429	392	388	446	367	358	281	325	285	297	318	310	326	354	430	481	500	579	619	606	9,894	50-59
40-49	278	292	304	298	283	294	327	303	353	363	311	355	380	389	395	442	422	432	493	471	506	507	582	462	9,242	40-49
60 years old or more	116	120	139	128	113	164	166	149	156	184	176	176	203	184	162	206	191	221	243	251	309	319	329	371	4,776	60 years old or more
30-39	321	332	364	374	403	383	422	410	438	409	311	315	341	305	316	314	281	270	302	296	341	300	356	325	8,229	30-39
20-29	336	328	327	296	344	298	292	292	254	285	203	193	205	207	175	188	203	196	227	244	241	250	320	294	6,198	20-29
19 years old or less	29	32	36	21	34	35	33	29	38	29	20	22	21	25	26	26	26	43	34	29	40	37	39	44	748	19 years old or less
total	1,544	1,531	1,656	1,543	1,606	1,566	1,628	1,629	1,606	1,628	1,302	1,386	1,435	1,407	1,392	1,486	1,449	1,516	1,729	1,772	1,937	1,992	2,245	2,102	39,087	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 05 cargo handling service in Japan (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	Workers scale
100-299	280	270	288	248	223	232	285	263	277	299	245	250	296	302	315	357	357	341	387	397	463	471	574	535	7,955	100-299
10-29	400	395	452	442	498	444	458	439	445	436	314	373	339	361	344	319	346	390	386	334	383	357	370	410	9,435	10-29
50-99	287	286	279	261	287	256	282	268	265	262	258	244	272	220	242	259	277	253	310	336	351	378	429	362	6,924	50-99
300 workers or more	79	76	63	78	64	71	87	124	101	112	129	118	116	138	133	128	135	125	173	216	233	354	408	354	3,615	300 workers or more
30-49	259	246	296	255	301	269	263	261	281	295	221	242	258	235	214	258	213	257	305	325	347	305	319	309	6,534	30-49
9 workers or less	239	258	278	259	233	294	253	274	237	224	135	159	154	151	144	165	121	150	168	164	160	127	145	132	4,624	9 workers or less
total	1,544	1,531	1,656	1,543	1,606	1,566	1,628	1,629	1,606	1,628	1,302	1,386	1,435	1,407	1,392	1,486	1,449	1,516	1,729	1,772	1,937	1,992	2,245	2,102	39,087	total

Transition of occurred months of fatal and non-fatal accidents in 05 cargo handling service in Japan (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	Month
July	148	118	155	159	134	143	140	123	130	146	127	107	123	126	123	135	122	140	144	181	198	172	217	204	3,515	July
January	126	116	142	116	105	130	101	129	124	136	106	103	108	109	103	120	120	103	137	158	149	178	171	196	3,086	January
October	135	132	153	136	138	134	143	146	147	143	121	104	119	118	109	122	123	143	171	165	164	165	166	180	3,377	October
August	124	129	133	119	134	95	142	153	135	113	93	126	99	127	133	111	124	135	146	145	164	174	216	180	3,250	August

Nagano	2	5	6		4		1	3	6	3	6	3	2		1	1	5	4	5	3	5	2	4	3	74	Nagano	
Iwate	5	3	5		3		4	1	1		1	2	5		2	2	2	1	5	1	1		3	3	50	Iwate	
Yamanashi	1				3		2		3	3					1	1	1	1	1	1	2	1	1	3	25	Yamanashi	
Fukui	6	2	8		3		5	3	3	3	2	1	3	5	3	4	3	4	6	2	3	2	7	2	80	Fukui	
Akita	4	3	3		2		5			3	1	3	1		2	1	3	1	1		1	1	1	2	38	Akita	
Kochi	16	11	21		12		3	4	2	3		4	2		4	2	2	4	3	2	3	2	3	1	104	Kochi	
Yamagata		1	3		2		1		2	4	1			4	2	1	1			1		1	4	1	29	Yamagata	
Tottori	4				3			5	5		1	3	7	1		4	1	1	1	2	4	1	3		46	Tottori	
Shimane					1		1	1	1	2	2	1	1	2	1			1					1			15	Shimane
total	1,544	1,531	1,656	1,543	1,606	1,566	1,628	1,629	1,606	1,628	1,302	1,386	1,435	1,407	1,392	1,486	1,449	1,516	1,729	1,772	1,937	1,992	2,245	2,102	39,087	total	

Data Source : <https://anzeninfo.mhlw.go.jp/user/anzen/tok/anst00.html> MHLW, Jaan

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