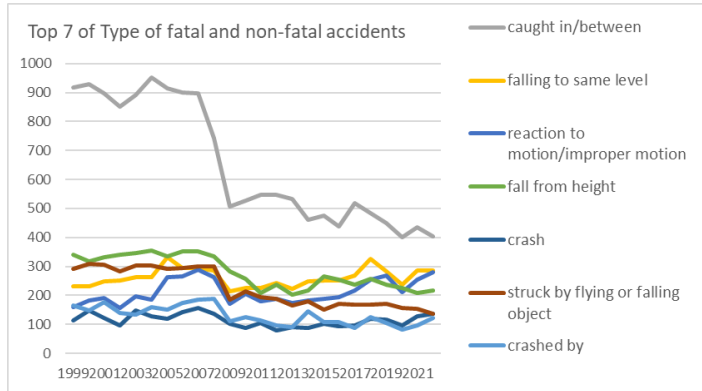
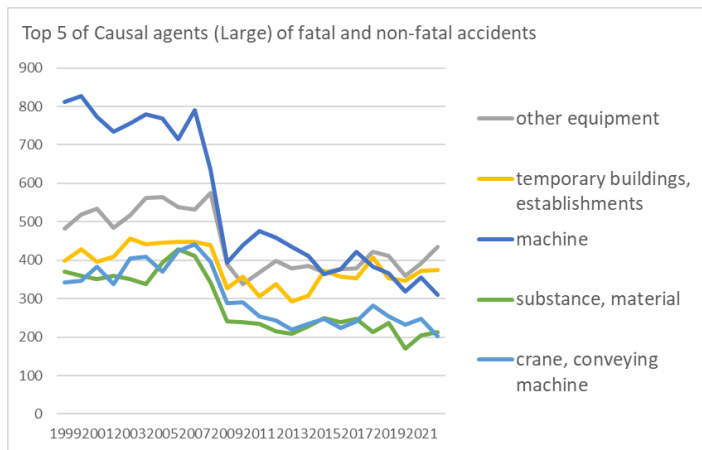


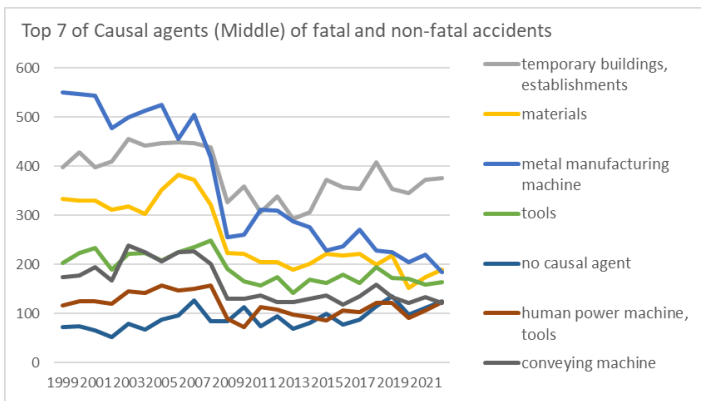
Transition of fatal and non-fatal accidents in 0115 transport equipment products in Japan (1999-2022)



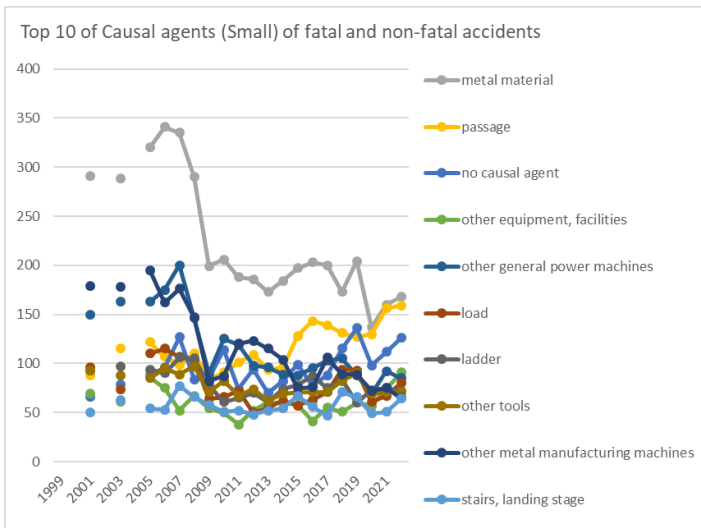
Transition of Top 7 of Type of fatal and non-fatal accidents in 0115 transport equipment products in Japan (1999-2022)



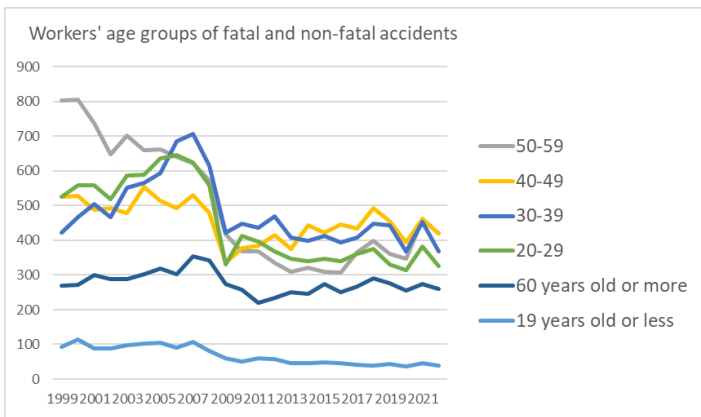
Transition of Top 5 of Causal agents (Large) of fatal and non-fatal accidents in 0115 transport equipment products in Japan (1999-2022)



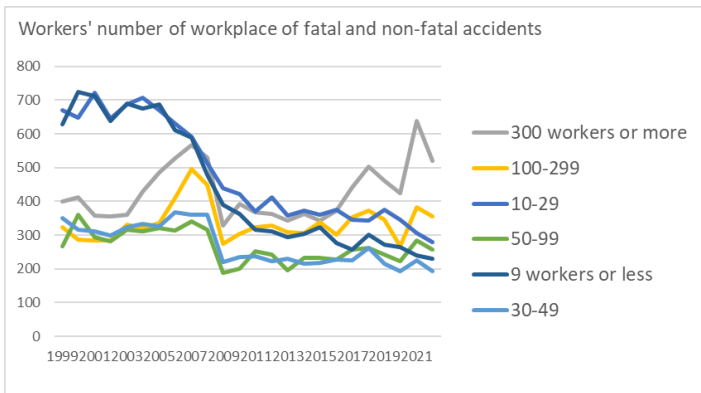
Transition of Top 7 of Causal agents (Middle) of fatal and non-fatal accidents in 0115 transport equipment products in Japan (1999-2022)



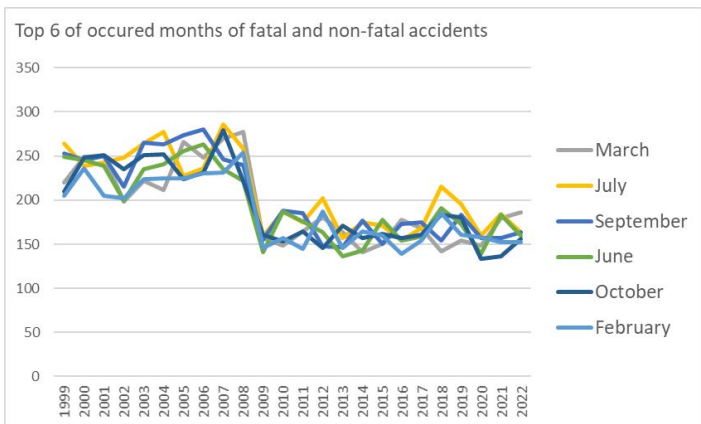
Transition of Top 10 of Causal agents (Small) of fatal and non-fatal accidents in 0115 transport equipment products in Japan (1999-2022)



Transition of workers' age groups of fatal and non-fatal accidents in 0115 transport equipment products in Japan (1999-2022)



Transition of workers' number of workplace of fatal and non-fatal accidents in 0115 transport equipment products in Japan (1999-2022)



Transition of Top 6 of occurred months of fatal and non-fatal accidents in 0115 transport equipment products in Japan (1999-2022)

contact to high/low-temperature	58	66	62	64	76	64	66	65	61	68	48	63	56	54	62	52	47	53	62	76	54	62	56	61	1,456	high/low-temperature
collapse	57	75	73	75	86	70	79	84	89	80	57	54	54	63	46	55	57	51	50	55	43	38	32	38	1,461	collapse
others	16	42	13	8	11	22	13	17	29	12	13	10	12	11	10	8	14	8	9	10	15	64	276	15	658	others
contact to harmful substance	15	11	11	24	13	23	26	30	20	14	8	9	11	8	10	13	20	9	20	9	9	17	14	15	359	contact to harmful substance
unclassifiable	5	2	1	4	5	4	3	7	10	3	2			3	1	4	3		4	5		1	4	9	80	unclassifiable
traffic accident (public road)	37	34	27	19	31	37	20	34	38	25	24	31	12	18	20	9	19	23	14	30	17	23	16	7	565	traffic accident (public road)
fire	10	7	3	6	3	4	10	12	4	9	13	2	8	7	6	6	5	4	2	5	5	7	3	3	144	fire
explosion	13	7	5	6	8	11	9	2	11	11	2	1	4	8	2	10	2	5	4	1	5	1	6	3	137	explosion
burst	3	2	2	6	3	4	4	2	3	3	2		3		1	3	2	1	2	1	5	1	3	3	59	burst
electric shock	8	9	10	4	1	5	4	8	9	9	2	3	4	3	2	2	7	2	2	3	3	7	5	1	113	electric shock
injury to the sole of the foot	5	5	3	7	1	1	4	5	4	5	3	2	1		1	3	5	7	2	4	5	2	5	1	81	injury to the sole of the foot
traffic accident (others)	1	8	2	2	2	1	1	3	1	2			1	2	1		3	1	1	4			2		38	traffic accident (others)
drown		1			2	1	2		2				19	1	1	1									30	drown
total	2,637	2,743	2,679	2,502	2,705	2,773	2,827	2,858	2,943	2,647	1,840	1,914	1,866	1,878	1,733	1,792	1,812	1,781	1,877	2,043	1,911	1,717	2,076	1,834	53,388	total

Transition of Causal agents (Large) of fatal and non-fatal accidents in 0115 transport equipment products 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
other equipment	482	519	535	485	516	562	564	538	532	575	389	337	369	398	379	385	368	377	379	422	411	360	391	436	10,709	other equipment

temporary buildings, establishments	398	429	397	409	456	441	446	449	447	439	327	358	306	339	293	307	373	357	354	408	354	346	372	375	9,180	temporary buildings, establishments
machine	812	827	773	734	757	779	768	716	790	635	395	439	476	458	435	412	364	376	422	383	366	319	356	309	13,101	machine
substance, material	370	360	350	360	351	337	393	429	411	342	241	239	234	216	209	229	250	238	248	214	236	171	204	214	6,846	substance, material
crane, conveying machine	342	347	383	338	404	409	370	424	442	397	289	291	254	244	219	235	248	223	241	281	254	233	248	203	7,319	crane, conveying machine
others	118	140	96	72	97	102	123	128	165	115	102	125	98	122	96	113	118	97	113	145	159	162	408	159	3,173	others
load	97	103	123	88	102	131	140	152	140	130	86	87	84	64	71	80	73	81	82	112	101	74	79	98	2,378	load
environment	18	18	22	16	22	12	23	22	16	14	11	38	45	37	31	31	18	32	38	78	30	52	18	40	682	environment
total	2,637	2,743	2,679	2,502	2,705	2,773	2,827	2,858	2,943	2,647	1,840	1,914	1,866	1,878	1,733	1,792	1,812	1,781	1,877	2,043	1,911	1,717	2,076	1,834	53,388	total

Transition of Causal agents (Middle) of fatal and non-fatal accidents in 0115 transport equipment products 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
temporary buildings, establishments	398	429	397	409	456	441	446	449	447	439	327	358	306	339	293	307	373	357	354	408	354	346	372	375	9,180	temporary buildings, establishments
materials	333	330	330	312	318	303	352	382	373	322	223	222	205	205	190	201	222	219	222	199	219	152	175	189	6,198	materials
metal manufacturing machine	550	547	543	477	500	513	524	455	505	418	255	261	312	310	288	276	229	237	270	229	225	204	220	185	8,533	metal manufacturing machine
tools	203	223	233	189	222	224	208	225	235	248	191	166	158	174	142	169	162	179	162	195	173	171	159	164	4,575	tools
no causal agent	72	74	66	53	79	67	88	96	127	84	85	114	74	94	70	82	99	77	88	115	136	98	112	126	2,176	no causal agent

human power machine, tools	116	125	125	120	146	142	157	147	150	158	89	73	114	109	98	93	87	106	104	121	121	91	106	123	2,821	human power machine, tools
conveying machine	175	177	195	168	238	225	207	225	226	201	131	131	137	124	123	131	137	118	135	159	134	121	133	122	3,873	conveying machine
general machine	195	223	181	200	207	217	190	211	243	176	110	141	142	126	128	110	111	114	128	124	108	83	108	100	3,676	general machine
load	97	103	123	88	102	131	140	152	140	130	86	87	84	64	71	80	73	81	82	112	101	74	79	98	2,378	load
other equipments, facilities	63	66	69	74	61	83	86	75	52	67	54	50	38	52	61	60	58	41	55	51	60	57	74	91	1,498	other equipments, facilities
crane	89	100	108	111	95	100	94	124	130	118	90	92	81	81	59	68	60	52	66	57	67	62	59	47	2,010	crane
welding equipment	81	80	82	79	63	80	93	71	72	70	46	39	44	47	64	49	49	39	45	49	39	30	35	41	1,387	welding equipment
natural environment	18	18	22	16	22	12	23	22	16	14	11	38	45	37	31	31	18	32	38	78	30	52	18	40	682	natural environment
vehicle	78	70	80	59	71	84	69	75	86	78	68	68	36	39	37	36	51	53	40	65	53	50	56	34	1,436	vehicle
other causal agent	35	63	26	14	13	31	33	26	26	23	14	9	20	24	25	27	17	17	21	23	21	62	290	27	887	other causal agent
hazards, harmful substances	37	30	20	48	33	34	41	47	38	20	18	17	29	11	19	28	28	19	26	15	17	19	29	25	648	hazards, harmful substances
woodworking machine	35	24	23	26	22	16	21	19	14	13	12	9	6	6	8	11	10	11	8	12	14	11	14	12	357	woodworking machine
electric equipment	7	8	12	8	5	10	7	7	10	14	3	5	10	6	4	8	4	5	4	2	7	4	4	9	163	electric equipment
power transmission mechanism	16	20	11	22	18	17	26	17	15	18	9	18	11	9	5	12	9	9	12	8	9	11	8	7	317	power transmission

																											mechanism
unclassifiable	11	3	4	5	5	4	2	6	12	8	3	2	4	4	1	4	2	3	4	7	2	2	6	6	110	unclassifiable	
kiln, caldron	8	10	9	9	15	16	8	10	9	14	3	3	4	8	8	5	8	6	3	3	7	6	8	5	185	kiln, caldron	
construction machine	12	10	13	6	7	14	6	13	9	10	9	10	4	5	5	2	4	5	4	7	10	9	5	4	183	construction machine	
pressure vessel	4	6	5	6	4	4	5	1	3	3	2	1	1	2	2	1			5	1	4		2	2	64	pressure vessel	
engine	4	3	2	3	3	2	1	1	4				1	2	1	1	1			3		1	1	1	35	engine	
chemical facilities		1				3		2	1	1	1							1	1			1	3	1	16	chemical facilities	
mobile silviculture machine																											mobile silviculture machine
total	2,637	2,743	2,679	2,502	2,705	2,773	2,827	2,858	2,943	2,647	1,840	1,914	1,866	1,878	1,733	1,792	1,812	1,781	1,877	2,043	1,911	1,717	2,076	1,834	53,388	total	

Transition of Causal agents (Small) of fatal and non-fatal accidents in 0115 transport equipment products 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
metal material			291		288		320	341	335	290	199	206	188	186	173	184	197	203	200	173	204	137	160	168	4,443	metal material
passage			88		115		122	107	99	110	84	91	101	109	94	96	128	143	139	131	127	130	156	159	2,329	passage
no causal agent			66		79		88	96	127	84	85	114	74	94	70	82	99	77	88	115	136	98	112	126	1,910	no causal agent
other equipment, facilities			69		61		86	75	52	67	54	50	38	52	61	60	58	41	55	51	60	57	74	91	1,212	other equipment, facilities
other general power machines			150		163		163	175	200	146	90	125	119	98	96	89	88	95	103	105	88	69	92	85	2,339	other general power machines
load			96		74		110	115	107	104	64	66	72	50	55	62	57	63	71	94	93	61	67	80	1,561	load
ladder			93		97		94	90	106	105	78	61	65	70	61	74	78	87	75	84	60	73	75	72	1,598	ladder
other tools			93		88		85	95	89	97	71	82	67	74	62	69	71	71	71	82	90	69	71	71	1,568	other tools

other metal manufacturing machines			179		178		195	162	176	147	82	87	120	123	115	104	75	76	106	89	89	72	75	65	2,315	other metal manufacturing machines
stairs, landing stage			50		63		54	53	77	66	58	51	52	48	52	54	67	56	47	71	66	49	51	64	1,149	stairs, landing stage
power press			155		138		143	141	143	118	62	65	89	79	72	65	63	60	69	61	55	49	62	55	1,744	power press
forklift			91		97		91	97	110	111	55	54	74	70	59	55	57	52	58	68	61	50	71	53	1,434	forklift
building, establishment			107		116		102	94	106	94	74	81	64	50	53	47	64	33	61	59	45	58	54	53	1,415	building, establishment
human power hauling equipment			37		66		86	84	86	98	44	36	55	55	54	46	39	59	64	63	61	42	49	47	1,171	human power hauling equipment
working platform, boot board			54		66		65	77	71	73	42	50	30	54	32	52	47	51	44	58	50	38	53	45	1,052	working platform, boot board
hand tool			71		65		58	55	59	51	40	29	48	46	40	41	40	36	35	52	42	33	33	45	919	hand tool
truck			47		69		50	56	52	39	43	40	23	25	24	42	40	32	32	38	34	27	27	38	778	truck
crane			84		76		76	103	106	105	76	74	62	68	48	51	47	40	52	46	44	42	45	36	1,281	crane
human power cranes			12		10		9	4	1	6	2	3	5	4	3	4	3	5	4	5	17	16	24	29	166	human power cranes
grinding machine, buffing machine			63		59		68	49	59	66	45	37	49	40	28	49	34	43	41	29	44	26	35	28	892	grinding machine, buffing machine
other temporary buildings, establishments			33		34		39	54	42	40	27	35	31	36	33	19	28	32	23	45	29	30	33	28	671	other temporary buildings, establishments
other causal agent			26		13		33	26	26	23	14	9	20	24	25	27	17	17	21	23	21	62	290	27	744	other causal agent
cars, bus, motorcycle			51		46		44	55	63	45	37	48	24	23	27	14	34	35	26	44	39	36	37	24	752	cars, bus, motorcycle
high/cold temperature			10		6		9	12	8	8	4	25	7	21	13	10	7	17	22	33	19	38	12	23	304	high/cold temperature

harmful substance			7		7		16	21	12	9	5	6	6	4	6	7	13	6	11	4	4	7	10	6	167	harmful substance
unclassifiable			4		5		2	6	12	8	3	2	4	4	1	4	2	3	4	7	2	2	6	6	87	unclassifiable
transmission			1		1		2	2	5	5	2		4	3	2	1	1	3	2		2	1	3	6	46	transmission
roll machine (except printingroll machine)			9		11		8	12	14	10	4	3	8	9	9	6	8	3	8	4	7	6	2	5	146	roll machine (except printingroll machine)
kiln, caldron			7		15		7	9	7	13	2	3	4	7	8	4	7	5	3	2	6	5	8	5	127	kiln, caldron
gas welding equipment			8		12		19	12	8	15	11	6	13	11	10	7	11	2	12	12	6	6	3	4	188	gas welding equipment
inflammable substance			6		14		14	10	6	4	8	5	8	2	7	12	8	5	5	5	5	2	9	4	139	inflammable substance
industrial robot			5		15		4	9	13	8	4	7	8	7	10	9	6	5	4	5	4	2	5	4	134	industrial robot
mobile crane			6		5		5	4	7	2	5	7	4	3	5	7	4	4	2	1	4	6	2	4	87	mobile crane
forging pressure hammer			4		1		5	2	5	5	5	4	3	3	2	5	2	2	1		4	2	1	4	60	forging pressure hammer
lumber, bamboo			21		12		17	17	16	12	10	6	5	5	4	7	11	6	3	7	5	6	6	3	179	lumber, bamboo
injection molding machine			10		16		11	10	9	8	8	3	2	7	11	3	5	4	7	8	6	4	5	3	140	injection molding machine
elevator, lift			7		2		5	7	6	4	2	7	1	3	1	4	2	1	2	3	7	5	2	3	74	elevator, lift
roof, beam, haze, crossbeam, principal rafter			6		5		4	8	1	2	2	9	3	3	2	3	1	4	3	3	2	2	2	3	68	roof, beam, haze, crossbeam, principal rafter
other powered crane			8		11		6	10	10	7	7	3	14	7	5	5	7	6	9	7	11	9	10	2	154	other powered crane
human power machine			5		5		4	4	4	3	3	5	6	4	1	2	5	6	1	1	1			2	62	human power machine
mixer, grinder			5		2		2	3	3	3	3	3	4	4	2	2	3	6	6	2	1	2	3	2	61	mixer, grinder

cargo lifting appliance			2			2		1		1				1		1			1			1	10	cargo lifting appliance	
food manufacturing machine							1	1														1	3	food manufacturing machine	
gondola																						1	1	gondola	
shearing machine			7		10		6	8	9	4	6	5	5	4	9	6	5	7	3	8	2	2		106	shearing machine
water			2		3			1	1		1		20	1	4	2		2	2		2			41	water
railway equipment			2		5		1	5		2	2		1		2	1	2	2	1	1		1		28	railway equipment
band sawing machine			4				1	1	3	2	1	1		2	1	2	1	2						21	band sawing machine
abnormal environment								1	1	1	2	1	1		1	2			3	3		3		19	abnormal environment
printing machine			1				2	1	1		1		1	1	1	1			2		1			14	printing machine
leveling, transporting or loading machine			2		1			2	2		2	1				1						1		12	leveling, transporting or loading machine
industrial dryer							1	1	1	1					1	1				1	1			8	industrial dryer
explosive substance					2		1	1					2		1			1						8	explosive substance
other kiln, caldron			2						1	1			1				1		1					7	other kiln, caldron
hollow chisel mortiser, wood borer			2				1			1									2					6	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine			1		1					2					2									6	chamfering machine, router, woodworking milling machine
hardening machine			1					1			1	1				1								5	hardening machine

50-59	803	806	737	647	703	660	662	641	621	573	417	367	367	334	309	320	309	306	365	399	361	347	460	421	11,935	50-59
40-49	525	527	489	493	479	553	513	492	530	479	336	377	385	416	376	444	423	446	433	493	456	394	462	421	10,942	40-49
30-39	422	467	505	466	551	565	594	686	707	615	422	448	437	469	407	399	412	395	408	447	444	368	453	368	11,455	30-39
20-29	526	559	558	519	587	590	636	646	624	558	331	413	396	367	346	339	346	339	362	374	331	315	383	325	10,770	20-29
60 years old or more	269	271	301	288	288	303	318	303	355	342	275	258	220	234	250	245	274	250	268	291	276	256	273	261	6,669	60 years old or more
19 years old or less	92	113	89	89	97	102	104	90	106	80	59	51	61	58	45	45	48	45	41	39	43	37	45	38	1,617	19 years old or less
total	2,637	2,743	2,679	2,502	2,705	2,773	2,827	2,858	2,943	2,647	1,840	1,914	1,866	1,878	1,733	1,792	1,812	1,781	1,877	2,043	1,911	1,717	2,076	1,834	53,388	total

Transition of workers' number of workplace of fatal and non-fatal accidents in 0115 transport equipment products 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
300 workers or more	400	411	357	355	360	428	485	527	568	530	329	392	367	362	344	362	342	373	441	504	462	423	638	520	10,280	300 workers or more
100-299	323	286	284	283	331	321	336	409	496	450	274	303	323	329	309	305	338	302	352	373	345	267	383	356	8,078	100-299
10-29	669	647	721	645	687	707	670	630	591	512	440	421	371	411	359	373	360	374	346	342	374	345	305	280	11,580	10-29
50-99	267	360	293	282	315	310	322	314	340	316	188	201	252	243	195	233	232	227	258	262	243	223	285	256	6,417	50-99
9 workers or less	628	724	712	637	689	674	688	611	588	479	389	362	316	310	295	303	323	277	256	301	271	265	239	229	10,566	9 workers or less
30-49	350	315	312	300	323	333	326	367	360	360	220	235	237	223	231	216	217	228	224	261	216	194	226	193	6,467	30-49
total	2,637	2,743	2,679	2,502	2,705	2,773	2,827	2,858	2,943	2,647	1,840	1,914	1,866	1,878	1,733	1,792	1,812	1,781	1,877	2,043	1,911	1,717	2,076	1,834	53,388	total

Transition of occurred months of fatal and non-fatal accidents in 0115 transport equipment products 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
March	220	249	250	198	222	212	266	248	270	277	157	149	165	181	164	141	150	178	168	142	154	149	180	186	4,676	March
July	264	239	243	248	264	277	228	236	286	259	159	187	175	202	157	175	171	154	168	215	196	160	184	164	5,011	July
September	253	245	250	215	265	263	274	280	246	240	155	188	185	148	147	177	150	173	175	154	183	157	157	164	4,844	September
June	249	245	239	199	235	241	256	263	235	222	141	187	176	164	136	143	178	154	159	191	173	139	183	160	4,668	June

Miyazaki	4	1	3		1		4	4	7	3	3	5	4	6	3	1	4	5	5	6	6	6	16	8	105	Miyazaki
Tokushima	27	15	14		12		14	20	16	18	23	16	11	8	14	5	10	13	9	12	10	6	8	7	288	Tokushima
Yamanashi	7	12	6		13		10	23	7	12	7	6	10	5	11	11	10	10	9	11	10	3	12	7	212	Yamanashi
Aomori	15	7	9		12		16	8	15	10	6	13	11	3	6	8	6	9	7	5	6	8	9	7	196	Aomori
Kagoshima	15	16	17		11		12	15	14	11	17	8	9	8	6	7	6	8	8	6	7	13	5	4	223	Kagoshima
Akita	3	6	8		6		6	4	8	4	8	4	1	8	2	3	2	6	4	3	2		6	4	98	Akita
Fukui	3	2	4		3		4	7	6	3	5	3	3	4	2	3	7	2	2	6	6	5	5	4	89	Fukui
Okinawa		3	2				5	2	2	3	2	2	3	3	1	3	1	1		1			5	4	43	Okinawa
Tottori	2	4	6		5		1	5	4	7	3	3	3	4	1	2	1	2	3	7	2	4	4	3	76	Tottori
total	2,637	2,743	2,679	2,502	2,705	2,773	2,827	2,858	2,943	2,647	1,840	1,914	1,866	1,878	1,733	1,792	1,812	1,781	1,877	2,043	1,911	1,717	2,076	1,834	53,388	total

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

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