



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
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
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
burst	3	2	2	6	3	4	4	2	3	3	2		3		1	3	2	1	2	1	5	1	3	3	59
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
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 (others)	1	8	2	2	2	1	1	3	1	2			1	2	1		3	1	1	4			2		38
reaction to motion/improper motion	159	182	191	157	198	185	262	265	289	263	172	204	180	189	174	183	188	193	217	254	268	211	253	280	5,117
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
unclassifiable	5	2	1	4	5	4	3	7	10	3	2			3	1	4	3		4	5		1	4	9	80
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

Causal agents (large) of fatal and non-fatal accidents in 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	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
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
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



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
mobile silviculture machine																									
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
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
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
pressure vessel	4	6	5	6	4	4	5	1	3	3	2	1	1	2	2	1			5	1	4		2	2	64
chemical facilities		1				3		2	1	1	1							1	1			1	3	1	16
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
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
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
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
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
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
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
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
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



machine, router, woodworking milling machine			1		1						2				2									6	
chain saw															1									1	
other woodworking machines			1		4		1	1	2	1		1	3	1	1		2	3	2	2		1		1	27
leveling, transporting or loading machine			2		1			2	2		2	1				1						1			12
excavating machine					1		1	1	2	1	2	1	1	1	1			1			3	2	2	1	21
foundation work machine					2		2			2	1					1				1		1		1	11
hardening machine			1					1				1	1			1									5
demolition machine								1												1					2
vehicle for high lift work			8		3		2	7	5	6	1	6	2	4	3	1	2	3	4	2	7	5	3	1	75
other construction machines			2				1	1		1	3	1			1			1		3				1	15
lathe			57		57		46	51	52	33	26	32	22	35	25	28	24	26	22	24	20	30	32	11	653
drill press, milling machine			78		57		61	42	61	45	29	31	24	26	37	19	26	23	28	18	11	23	15	22	676
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
power press			155		138		143	141	143	118	62	65	89	79	72	65	63	60	69	61	55	49	62	55	1,744







conveying machines			22		26		37	23	20	20	17	17	13	7	12	6	16	20	21	17	13	19	11	14	351	
cars, bus, motorcycle			51		46		44	55	63	45	37	48	24	23	27	14	34	35	26	44	39	36	37	24	752	
railway vehicle			1		2		3	2	2	4	1	1	1	3	2	1	2	3	1		2	3	4	2	40	
other vehicles			28		23		22	18	21	29	30	19	11	13	8	21	15	15	13	21	12	11	15	8	353	
boiler							2	1							1				1						5	
pressure vessel			1		1		1		2	1						1						3			1	11
other pressure vessels			4		3		2		1	2	2	1	1	2	1				4	1	1			2	1	28
chemical facilities								2	1	1	1							1	1			1	3	1	12	
gas welding equipment			8		12		19	12	8	15	11	6	13	11	10	7	11	2	12	12	6	6	3	4	188	
arc welding equipment			29		17		33	29	33	18	21	17	18	18	20	20	12	21	12	20	14	9	11	15	387	
other welding equipment			45		34		41	30	31	37	14	16	13	18	34	22	26	16	21	17	19	15	21	22	492	
kiln, caldron			7		15		7	9	7	13	2	3	4	7	8	4	7	5	3	2	6	5	8	5	127	
industrial dryer							1	1	1	1						1	1				1	1			8	
other kiln, caldron			2						1		1			1				1		1					7	
transmission			1		1		2	2	5	5	2		4	3	2	1	1	3	2		2	1	3	6	46	
electric power facilities			4		2		1	3	4	5		3	2	1	1	3	1		1	1	2	2		1	37	
other electrical			7		2		4	2	1	4	1	2	4	2	1	4	2	2	1	1	3	1	1	2	47	



establishment			107		116		102	94	106	94	74	81	64	50	53	47	64	33	61	59	45	58	54	53	1,415
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
explosive substance					2		1	1					2			1			1						8
inflammable substance			6		14		14	10	6	4	8	5	8	2	7	12	8	5	5	5	5	2	9	4	139
inflammable gas			4		2		1	3	7	3		1	7	3		2		3	2	3	2	2	3	7	55
harmful substance			7		7		16	21	12	9	5	6	6	4	6	7	13	6	11	4	4	7	10	6	167
radiation										1															1
other hazards, harmful substances			3		8		9	12	13	3	5	5	6	2	6	6	7	5	7	3	6	8	7	8	129
metal material			291		288		320	341	335	290	199	206	188	186	173	184	197	203	200	173	204	137	160	168	4,443
lumber, bamboo			21		12		17	17	16	12	10	6	5	5	4	7	11	6	3	7	5	6	6	3	179
stone, sand, substance			3		2			1	2	2	2		1	1		1	3					1		2	21
other materials			15		16		15	23	20	18	12	10	11	13	13	9	11	10	19	19	10	8	9	16	277
load			96		74		110	115	107	104	64	66	72	50	55	62	57	63	71	94	93	61	67	80	1,561
machine/equipment as load			27		28		30	37	33	26	22	21	12	14	16	18	16	18	11	18	8	13	12	18	398
natural ground, rock			2					2				1	1	1		1				7	1	1		1	18
standing tree			2		3		1	1					1					1		1	1			1	12

water			2		3			1	1		1		20	1	4	2		2	2		2				41
abnormal environment								1	1	1	2	1	1		1	2			3	3		3			19
high/cold temperature environment			10		6		9	12	8	8	4	25	7	21	13	10	7	17	22	33	19	38	12	23	304
other environments			6		10		13	5	6	5	4	11	15	14	13	16	11	12	11	34	7	10	6	15	224
other causal agent			26		13		33	26	26	23	14	9	20	24	25	27	17	17	21	23	21	62	290	27	744
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
unclassifiable			4		5		2	6	12	8	3	2	4	4	1	4	2	3	4	7	2	2	6	6	87
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

#### Workers age of fatal and non-fatal accidents in 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	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
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
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
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
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
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
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

Workers' number of workplace of fatal and non-fatal accidents in 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	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
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
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
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
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
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
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

Month of fatal and non-fatal accidents in 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	204	198	229	203	222	232	212	229	241	222	185	140	159	150	142	159	143	160	159	178	160	156	156	152	4,391
February	205	236	205	202	224	225	225	230	231	254	146	157	145	187	146	165	160	139	154	185	161	158	152	152	4,444
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
April	206	186	224	181	184	219	217	257	207	197	153	141	130	136	119	114	144	132	136	150	142	123	244	138	4,080
May	205	205	196	196	209	206	209	210	251	206	135	139	109	147	135	136	159	135	140	148	151	102	168	142	4,039
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
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
August	218	241	219	190	213	221	254	250	263	223	145	177	157	167	149	154	134	135	170	176	129	144	191	146	4,466

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
October	210	248	251	235	251	252	224	231	279	222	161	153	165	146	171	157	162	157	161	183	181	134	136	156	4,626
November	212	228	181	229	210	214	236	223	232	185	168	156	149	129	146	135	124	148	143	162	139	137	171	139	4,196
December	191	223	192	206	206	211	226	201	202	140	135	140	151	121	121	136	137	116	144	159	142	158	154	135	3,947
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

Prefecture of fatal and non-fatal accidents in 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	40	66	46		43		35	50	43	36	33	30	45	28	36	38	31	45	25	34	29	27	24	32	816
Aomori	15	7	9		12		16	8	15	10	6	13	11	3	6	8	6	9	7	5	6	8	9	7	196
Iwate	14	16	19		23		12	11	11	15	8	16	17	16	7	12	5	15	8	12	12	13	8	11	281
Miyagi	21	31	27		19		33	30	26	34	24	23	36	20	26	12	26	28	32	28	26	27	27	24	580
Akita	3	6	8		6		6	4	8	4	8	4	1	8	2	3	2	6	4	3	2		6	4	98
Yamagata	14	11	17		19		16	20	12	22	9	9	11	10	17	9	14	9	9	9	21	13	11	11	293
Fukushima	29	48	40		40		44	37	33	46	18	31	35	26	29	33	23	27	29	29	23	25	36	29	710
Ibaraki	30	23	40		28		48	30	33	34	26	34	27	31	23	28	27	25	26	33	41	28	39	33	687
Tochigi	58	50	49		60		71	57	51	64	37	45	55	44	55	61	55	68	53	55	41	53	39	40	1,161
Gunma	136	106	107		122		119	134	139	115	83	73	106	96	101	107	92	93	94	102	99	83	122	105	2,334
Saitama	92	122	113		137		123	127	135	107	56	74	72	55	58	58	59	58	65	77	89	62	96	61	1,896
Chiba	49	54	35		34		36	37	40	42	40	33	27	29	27	29	30	27	18	26	21	15	25	27	701
Tokyo	65	72	64		61		45	35	42	52	25	18	33	40	26	33	29	24	26	34	32	27	37	37	857
Kanagawa	198	200	204		222		257	221	209	198	136	160	138	125	106	126	126	119	138	170	148	94	123	136	3,554

Niigata	20	25	23		18		26	23	26	18	20	19	15	13	17	16	15	16	18	15	13	17	24	19	416
Toyama	12	15	17		11		16	24	14	13	6	11	14	13	14	19	12	11	10	7	8	8	12	8	275
Ishikawa	19	7	19		17		15	9	8	14	10	7	9	20	15	16	9	5	14	15	9	14	14	16	281
Fukui	3	2	4		3		4	7	6	3	5	3	3	4	2	3	7	2	2	6	6	5	5	4	89
Yamanashi	7	12	6		13		10	23	7	12	7	6	10	5	11	11	10	10	9	11	10	3	12	7	212
Nagano	27	26	26		26		26	28	31	31	13	21	26	27	20	30	21	29	24	33	28	22	29	28	572
Gifu	66	65	66		80		74	96	111	67	41	26	33	40	46	45	55	44	50	57	49	52	59	59	1,281
Shizuoka	250	242	275		246		310	252	305	248	128	152	164	157	139	152	154	141	144	174	174	124	172	143	4,246
Aichi	366	424	379		371		393	409	417	327	214	244	232	271	258	235	217	219	223	248	223	250	265	269	6,454
Mie	94	83	102		68		84	136	125	116	59	69	57	82	69	53	81	65	66	75	74	46	150	56	1,810
Shiga	24	16	16		19		33	28	22	24	19	16	16	23	25	21	29	21	20	23	18	23	60	28	524
Kyoto	26	27	33		22		15	25	29	22	17	8	17	11	13	8	16	13	18	21	13	9	12	15	390
Osaka	117	119	112		113		78	103	115	76	67	51	59	59	53	57	52	59	80	58	47	65	68	48	1,656
Hyogo	79	91	79		95		88	75	103	85	60	66	49	61	49	42	57	47	47	56	62	67	66	50	1,474
Nara	6	8	12		6		8	9	12	12	10	7	11	5	7	9	6	5	7	8	5	1	11	8	173
Wakayama	10	11	11		7		10	10	12	13	5	2	3	8	5	5	8	6	7	6	6	11	5	11	172
Tottori	2	4	6		5		1	5	4	7	3	3	3	4	1	2	1	2	3	7	2	4	4	3	76
Shimane	11	5	12		7		7	9	6	13	5	7	10	8	8	5	9	4	6	7	7	2	2	8	158
Okayama	43	34	41		34		55	59	53	47	35	40	40	44	36	47	25	21	48	44	37	28	25	45	881
Hiroshima	205	223	198		222		228	229	214	235	153	186	143	157	129	136	135	140	156	163	163	137	130	141	3,823
Yamaguchi	56	54	53		56		47	50	53	61	50	27	24	25	39	37	42	30	45	38	41	21	34	33	916
Tokushima	27	15	14		12		14	20	16	18	23	16	11	8	14	5	10	13	9	12	10	6	8	7	288
Kagawa	49	51	39		39		42	45	56	44	48	33	25	29	22	25	20	26	18	26	27	29	22	28	743

Ehime	65	83	91		101		97	69	96	95	63	67	60	54	42	53	61	51	55	47	52	54	50	46	1,452
Kochi	23	24	29		25		21	24	19	26	19	23	13	11	9	18	16	14	12	18	16	16	9	8	393
Fukuoka	56	58	46		68		69	58	78	53	45	42	46	40	40	48	46	68	75	74	63	47	46	41	1,207
Saga	9	13	11		11		17	20	17	21	11	14	13	22	15	16	16	19	20	28	24	15	17	14	363
Nagasaki	91	85	68		79		60	72	66	50	69	75	56	58	42	56	64	57	65	57	54	66	59	36	1,385
Kumamoto	41	32	40		39		38	43	34	30	21	29	23	19	21	20	35	29	32	31	24	46	39	30	696
Oita	50	57	51		54		59	76	68	70	83	66	51	52	43	34	47	47	47	48	43	35	39	52	1,172
Miyazaki	4	1	3		1		4	4	7	3	3	5	4	6	3	1	4	5	5	6	6	6	16	8	105
Kagoshima	15	16	17		11		12	15	14	11	17	8	9	8	6	7	6	8	8	6	7	13	5	4	223
Okinawa		3	2				5	2	2	3	2	2	3	3	1	3	1	1		1			5	4	43
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

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)

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Fatal accidents in transport equipment products in Japan in 1999-2022

transport equipment products industry Code No.0115



Type of fatal accidents in 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	9	6	10	11	7	7	7	12	5	2	4	6	4	5	5	3	3	3	3	6	2	2	3	2	127
falling to same level	2		2						3				2	1	1	1				2					14
crash	1				1					2	1				2				1						8
struck by flying or falling object	2	1	3	1	4	4	1	4	1	7	3	3	2	4	3	3	2	1		1		3	2	1	56
collapse	1	1	3	1	1	1	1	1	8	5	2	1	1	3			3			4	1	4		1	43
crashed by	1	4	3	2	3	1	1	4	2	4	1	4	2		3	1	2	3	1	2	2			2	48
caught in/between	7	3	6	5	9	12	8	5	5	10	4	3	3	8	4	9	2	3	5	6	5	4	4	2	132
cut																									
injury to the sole of the foot																									
drown		2			2	1	1	1	1		1		16	1		1									27
contact to high/low-temperature					1				2	6		2		1	3			1	1	2	1	2	1		23
contact to harmful substance		3	1	1	4		1	2	1	1	1		1	1	1	1			1	1		4			25
electric shock		1	2				1	2	2			1	2	1			1			1					14
explosion	1		1	1	1	3			4	4			2	3		1									21
burst																			1						1
fire	2				1		1	1	1	1			1			1	2		1	1		2		1	16
traffic accident (public road)	1	2	2	1		2				1	1			2				1		4	1				18
traffic accident (others)		1		1																					2
reaction to motion/improper motion																		1							1



woodworking machine										1															1
construction machine	2		1	1	1			1										1		1					8
metal manufacturing machine	3	2	1	5	1	1	2	1	3	3	1	5	2	4	2	3		1	3	2		1		1	47
general machine	2	1	2	1	2	5	2		2	5	1	1			3	3	2	2	1	1	1		1		38
mobile silviculture machine																									
crane	2	1	4	1	5	2		4	6	2	1	2	2	1	3	3	1	4	1	2	1	1	3	3	55
conveying machine	3	3	3	3	3	6	4	4	1	5		1	1	6	1	4	1		2	7	2	2	2	1	65
vehicle	1	4	1	2	1	3	2		2	1	2	1	2	1		1	1	2		2	1				30
pressure vessel																			1						1
chemical facilities																									
welding equipment			1				1	1	4	2		1		3			3	1	2	1		1		1	22
kiln, caldron										1															1
electric equipment		1	1				1	1						1							1				6
human power machine, tools			1			1			1																3
tools	1	1	1	2			1	3		5	5		1	2	2	1				4				1	30
other equipments, facilities	1	1			3	2							2	1				1				3			14
temporary buildings, establishments	6	5	10	5	6	6	6	9	6	4	5	6	4	5	6	3	2	2	2	4	2	5	2	2	113
hazards, harmful substances	3	2	2	2	6	3	1	3	6	3	1		3			2				1		2			40
materials		1	5	1	2	1	1	3	1	6			2	3	1		3								30
load				1	1		1	1	2	1	1	1					2				2	1	1		15
natural environment		2			2	1				4		2	18	3	4				1	6	1	3	1		48
other causal agent	1					1		1								1						1			5





skyline yarding machine																									
other mobile silviculture machine																									
crane	1	1	3		5			2	5	2	1	2	2	1	2	2	1	4	1	2	1		2	2	42
mobile crane						1		1	1						1							1		1	6
derrick crane																									
elevator, lift			1			1									1								1		4
cargo lifting appliance																									
gondola	1																								1
lumberyard equipment, logging cableway																									
simple skyline yarding equipment																									
other powered crane				1				1																	2
truck		1	1	1	1	1				3				3	1	2				2	1	2	1		20
forklift	1	2	2	1	2	4		1	1	2		1		2				1	3						23
railway equipment				1				1																	2
conveyor								1								1	1			1					4
loader																									
straddle carrier																									
rough terrain hauler																									
other powered conveying machines	2					1	4	1					1	1		1			1	1	1		1	1	16
cars, bus, motorcycle	1	1	1	1		2	1				2		1	1				1		2	1				15
railway vehicle																	1								1

other vehicles		3		1	1	1	1		2	1		1	1			1							14	
boiler																								
pressure vessel																								
other pressure vessels																	1						1	
chemical facilities																								
gas welding equipment								1	2				3			2	1			1			10	
arc welding equipment			1				1	1	3			1				1	1	1	1			1	12	
other welding equipment																								
kiln, caldron																								
industrial dryer									1														1	
other kiln, caldron																								
transmission							1						1						1				3	
electric power facilities			1					1															2	
other electrical equipment		1																					1	
human power cranes			1			1																	2	
human power hauling equipment									1														1	
human power machine																								
hand tool																								
ladder				2			1	1											1				5	
slinging tool	1	1	1					2		3	3		1	2	2	1				3			1	21
other tools										2	2												4	
other equipment, facilities	1	1			3	2							2	1				1				3	14	
scaffolding	1	3	2	3		1	4			1	1	1	1		2					2		1	1	24

timbering																								
stairs, landing stage	1		1					1	2		3	3		1			1							13
opening				1	1						1	1		1										5
roof, beam, haze, crossbeam, principal rafter	1				1													2						4
working platform, boot board	1	1	2	1		2		3	1					1		1								13
passage			1				1	1					1		1	1							1	7
building, establishment	2	1	4		2	3	1	4	3	3		1	1	1	3	1	1	2		2	2	2	1	40
other temporary buildings, establishments					2								1	1								2	1	7
explosive substance																								
inflammable substance	3			1	4	3		1	2				2			1				1				18
inflammable gas		1	1						3	1			1											7
harmful substance		1	1	1	2		1	1	1		1					1								10
radiation																								
other hazards, harmful substances								1		2												2		5
metal material		1	5	1	2	1	1	3		6			2	3	1		3							29
lumber, bamboo									1															1
stone, sand, substance																								
other materials																								
load				1	1			1	2			1					2				1	1		10
machine/equipment as load							1			1	1									1		1		5
natural ground, rock																			3					3



standing tree																												
water		1			1	1							16	1														20
abnormal environment		1								1			1		1				1				2					7
high/cold temperature environment					1					3		2		2	3							2	1	1	1			16
other environments													1								1							2
other causal agent	1					1		1									1						1					5
no causal agent							1		1	1		2	1	1				1	1	1			1			1		12
unclassifiable								1																2				3
total	27	24	33	24	34	32	23	33	35	44	18	22	38	31	22	21	16	14	15	30	13	22	10	10			591	

Workers age of fatal accidents in 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			1			1	1	1			1	1		1			1					1				9
20-29	5	1	7	4	2	2	4	7	4	11	1	2	5	2	4	6	3	1	2	3	2	1	1			80
30-39	2	1	5	4	5	6	7	4	4	7	3	4	3	7	4	3	5	1	3	5	3	4	1	3		94
40-49	3	6	1	5	2	8	4	5	3	2	3	6	6	5	4	4	1	3	1	5	2	6	3	1		89
50-59	10	7	15	8	18	10	4	12	16	12	7	5	17	8	4	4	2	5	2	9	2	5	3	5		190
60 years old or more	7	9	4	3	7	5	3	4	8	12	3	4	7	8	6	4	4	4	7	8	4	5	2	1		129
total	27	24	33	24	34	32	23	33	35	44	18	22	38	31	22	21	16	14	15	30	13	22	10	10		591

Workers' number of workplace of fatal accidents in 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	6	4	8	3	8	7	6	6	6	4	2	2	7	5	3	4	6	3	2	6	3	6	3	3	113
10-29	6	7	11	4	6	7	6	10	10	11	9	5	13	11	5	4	2	2	2	7	4	6	1	2	151
30-49	2	3	3	2	5	1		5	5	3		5	4	4	2	2		3	1	4		2			56
50-99	2	3	3	3	5	2	3	1	4	4	1	1	3	2	1	3	2		4	1		1	1		50
100-299	6	5	3	6	3	6	3	6	4	7	1	2	4	4	5	4	3	2	3	5	3	3	1	3	92
300 workers or more	5	2	5	6	7	9	5	5	6	15	5	7	7	5	6	4	3	4	3	7	3	4	4	2	129
total	27	24	33	24	34	32	23	33	35	44	18	22	38	31	22	21	16	14	15	30	13	22	10	10	591

Month of fatal accidents in 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	1		5	3	2	2	5	2	3	3	4	2	2	4	1	1	2		1	2	1	1	2	2	51
February	4	3	4		2	1	1	3	1	3		2	2			2	1		3	3	1	1	1	3	41
March	2	1		2	1	2	1	4	2	4	2		18	2	2		3	3		1		4	1		55
April	1	1		1	2	2	3	4		3	2	1	3	1	2	4	2	2	3	1	2		1		41
May	3	1	5	1	1	2	2	4	3	9		1	2	3	1	3	2		4						47
June	3	3	4	4	3	1	3	1	2	4		4	2	1	3	1		1	1	2	2	2		2	49
July	3	4	3	1	2	8	1	4	4	2			2	4	7	1	2	1	1	7	1	4	2		64
August	3	3	3	3	2	5	5	5	9	6	2	5	3	6	2	2	2	1		3		1	1	1	73
September	2	2	2		3	3		2	5	2	5	1		3	2	2	1	3		2		3			43
October	1	3	2	2	7	2		1	6	3		1	1	2	1	1		1	1	5	2	2			44

November	2	2	3	4	3	3	1	2		2	1	2	1	2		2		1	1	3			2	2	39
December	2	1	2	3	6	1	1	1		3	2	3	2	3	1	2	1	1		1	4	4			44
total	27	24	33	24	34	32	23	33	35	44	18	22	38	31	22	21	16	14	15	30	13	22	10	10	591

Prefecture of fatal accidents in 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	1		1	1	2					1						1			1		1				9
Aomori			1																						1
Iwate						4		1				1	2		1										9
Miyagi					1			3		1			14		2					3					24
Akita																		2							2
Yamagata			1				1			2					1										5
Fukushima			1			1	1			1		1	2			1									8
Ibaraki	1								1							2							1	1	6
Tochigi	2	1	1		1		2			2		1		1						1					12
Gunma	1		2						1			1			1	2			1	1				1	11
Saitama					1		1		1		1		1	1					2						8
Chiba		1	2	1			2	1						3	1		2			1					14
Tokyo		2	1							1				4		1				2					11
Kanagawa		2		1	3	2	1		2	1	1	2	1	3		2				1	1	1	2		26
Niigata		1			1				1																3
Toyama															1		1			1					3



Fukuoka		1		1	2					2				1		1				1			1			10
Saga					1								1							1		1				4
Nagasaki		1	1	1			1	3	2		2		3	2	1	1	1		1	2	1	4				27
Kumamoto			1	1		1	1	1	1				1		1					1	1					10
Oita	2	2		2	1		1	3	1		4	1				1	1									21
Miyazaki								1																		1
Kagoshima					1																					1
Okinawa																										
total	27	24	33	24	34	32	23	33	35	44	18	22	38	31	22	21	16	14	15	30	13	22	10	10		591

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

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