



contact to harmful substance	19	36	25	30	27	25	28	25	21	33	23	22	27	20	35	24	28	21	35	32	20	34
electric shock	5	10	4	7	6	1	7	4	6	5	4	4	4	2	5	5	4	4	1	3	1	4
explosion	6	7	2	4	7	5	4	5	5	6	2	4	4	0	2	1	3	0	6	2	6	2
burst	9	12	17	7	11	14	13	9	12	7	6	6	5	6	4	10	3	6	4	2	7	6
fire	4	11	5	3	4	6	4	5	5	2	3	2	3	2	2	5	5	0	1	3	1	2
traffic accident (public road)	2,842	2,807	2,744	2,467	2,491	2,439	2,420	2,314	2,214	2,140	1,953	2,043	2,120	2,020	2,166	2,217	2,183	2,139	2,012	1,917	1,741	1,507
traffic accident (others)	28	28	29	65	50	76	78	63	101	48	24	29	15	18	16	20	25	11	19	18	21	16
reaction to motion/improper motion	2,110	2,023	2,070	2,026	2,079	2,077	2,041	2,185	2,221	2,358	2,121	2,119	2,259	2,233	2,191	2,200	2,184	2,329	2,516	2,713	2,692	2,800
others	138	172	152	174	157	170	182	203	225	273	255	218	251	189	151	132	181	165	183	160	193	361
unclassifiable	82	82	86	117	118	108	75	82	79	76	53	43	46	69	62	56	46	59	44	42	28	25
total	17,711	18,120	18,439	17,108	17,540	17,689	17,259	17,740	17,464	17,354	15,253	15,861	16,048	15,908	16,303	16,421	15,976	16,087	16,622	17,783	16,968	16,859

Causal agents (middle) of industrial accidents in transportation service in 1999-2020

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
engine	4	4	3	3	0	4	1	2	2	2	0	1	2	2	4	3	5	1	2	4	3	1
power transmission	12	9	16	12	10	6	12	10	10	9	11	11	14	6	13	9	16	8	4	10	12	4

mechanism																						
woodworking machine	32	29	26	28	24	24	17	15	21	30	17	18	23	15	20	12	12	15	14	8	7	15
construction machine	76	58	69	67	74	53	42	59	65	46	53	43	49	48	44	48	39	53	45	47	32	41
metal manufacturing machine	19	23	27	11	26	22	13	13	10	17	18	13	23	12	15	12	20	12	14	11	8	13
general machine	65	65	61	68	55	69	60	63	67	57	54	38	32	45	53	39	37	31	46	57	46	39
mobile silviculture machine																	1	2	2	2	2	0
crane	365	324	316	313	343	330	313	286	268	250	189	212	193	179	221	218	199	207	188	201	204	182
conveying machine	6,932	7,304	7,286	6,782	6,904	6,854	6,612	6,599	6,363	6,071	5,267	5,555	5,622	5,540	5,746	5,658	5,624	5,400	5,612	5,814	5,607	5,571
vehicle	1,892	1,819	1,806	1,720	1,723	1,804	1,879	1,891	1,949	1,889	1,802	1,818	1,805	1,808	1,863	1,936	1,941	1,973	1,899	1,890	1,740	1,396
pressure vessel	14	15	22	16	14	13	10	7	7	4	10	10	5	9	7	6	8	6	6	5	7	4
chemical facilities	1	0	3	2	0	3	1	5	1	1	0	4	2	1	1	3	3	2	0	4	0	2
welding equipment	5	7	3	6	1	3	5	0	7	4	2	2	3	3	0	3	4	0	4	5	3	1
kiln, caldron	0	2	1	2	1	-	2	0	1	0	1	0	1	2	2	1	3	0	2	0	1	0
electric	16	20	7	11	11	5	11	10	10	10	5	11	10	12	7	11	6	13	7	16	10	8

equipment																						
human power	584	605	624	675	658	720	682	751	830	928	729	815	801	862	887	898	851	1,026	980	1,062	1,092	1,142
machine, tools																						
tools	821	826	875	861	862	875	881	964	977	1,004	824	825	828	823	874	928	908	877	926	994	1,034	1,021
other																						
equipments,	142	154	169	119	121	143	132	195	177	199	192	186	163	192	169	148	157	164	164	212	185	191
facilities																						
temporary																						
buildings,	2,190	2,337	2,450	2,199	2,454	2,584	2,470	2,563	2,516	2,659	2,455	2,603	2,512	2,601	2,585	2,716	2,606	2,775	2,939	3,372	3,142	3,219
establishments																						
hazards,																						
harmful	37	54	44	36	37	29	42	46	39	51	30	24	38	23	27	22	25	19	32	18	28	44
substances																						
materials	1,029	1,010	966	862	865	831	777	812	789	704	583	583	590	583	607	610	536	483	532	543	493	458
load	2,197	2,233	2,333	2,045	2,107	1,982	1,902	2,001	2,102	2,038	1,715	1,675	1,694	1,682	1,679	1,612	1,565	1,597	1,603	1,691	1,642	1,641
natural																						
environment	287	291	406	285	310	343	352	384	314	362	290	404	635	466	521	578	407	494	522	749	464	476
other causal																						
agent	281	292	269	233	243	292	275	265	240	277	237	198	233	206	230	207	235	222	233	203	201	366
no causal agent	609	550	576	653	592	627	707	718	611	647	708	768	718	719	673	695	725	671	814	835	977	1,004
unclassifiable	101	89	81	99	105	73	61	81	88	95	61	44	52	69	55	48	43	36	32	30	28	20
total	17,711	18,120	18,439	17,108	17,540	17,689	17,259	17,740	17,464	17,354	15,253	15,861	16,048	15,908	16,303	16,421	15,976	16,087	16,622	17,783	16,968	16,859

Causal agents (small) of industrial accidents in transportation service in 1999-2020

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
engine			3		0		1	2	2	2	0	1	2	2	4	3	5	1	2	4	3	1
power transmission mechanism			16		10		12	10	10	9	11	11	14	6	13	9	16	8	4	10	12	4
circular sawing machine			19		18		12	6	12	20	9	12	9	9	11	7	9	9	10	2	5	9
band sawing machine			0		0		0	2	1	1	0	0	0	1	1	1	0	0	0	0	0	0
wood planer machine			0		0		0	0	0	0	2	0	1	1	0	0	0	0	0	0	1	0
hollow chisel mortiser, wood borer			0		1		0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	1
chamfering machine, router, woodworking milling machine			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
chain saw			4		1		3	4	3	3	3	3	8	1	4	1	2	3	1	3	1	5
other woodworking machines			3		4		2	3	5	6	2	3	5	2	4	3	1	3	3	2	0	0
leveling, transporting or loading machine			17		18		14	15	29	12	19	8	8	16	18	12	15	15	17	13	13	11
excavating machine			34		29		20	21	14	18	17	20	25	18	14	23	10	17	15	20	9	14
foundation work machine			1		2		1	0	1	1	0	2	0	0	0	0	0	0	0	0	1	1
hardening machine			9		8		0	3	4	2	1	1	2	2	2	1	2	2	1	0	1	0
demolition machine			0		2		1	0	0	1	2	2	0	1	2	1	3	4	4	1	3	0
vehicle for high lift			0		3		1	2	3	3	2	4	4	1	1	3	3	8	2	3	2	6



industrial robot			0		0		0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0
other general power machines			55		47		58	54	53	47	48	34	29	43	48	35	34	30	41	49	42	33
felling machine																0	1	1	1	2	0	
mobile logging machine																1	0	1	1	0	0	
skyline yarding machine																0	0	0	0	0	0	
other mobile silviculture machine																0	1	0	0	0	0	
crane			124		140		118	124	110	104	64	80	65	78	76	72	60	74	71	71	76	67
mobile crane			157		155		161	138	130	125	97	109	109	80	116	115	117	112	98	108	104	96
derrick crane			0		1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
elevator, lift			19		27		17	17	18	16	19	12	10	15	21	16	13	12	13	13	15	8
cargo lifting appliance			0		0		0	0	1	0	0	0	2	0	1	0	1	1	0	0	2	2
gondola			0		0		0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1
lumberyard equipment, logging cableway			1		0		0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0
simple skyline yarding equipment																0	0	0	0	0	0	0
other powered crane			15		20		17	7	9	5	8	11	7	5	7	15	8	7	6	9	5	8
truck			6,279		5,947		5,673	5,617	5,420	5,231	4,518	4,783	4,819	4,761	5,024	4,957	4,916	4,670	4,859	4,997	4,822	4,852
forklift			829		827		813	861	797	710	643	628	687	638	581	595	606	617	635	712	662	612

railway equipment			3		5		4	4	4	4	4	2	3	3	5	2	1	2	3	1	5	0
conveyor			125		85		81	73	94	85	65	74	65	87	90	66	50	66	68	67	74	71
loader			2		4		2	3	6	5	2	5	4	5	2	4	7	5	3	3	6	2
straddle carrier			0		0		0	3	2	0	0	0	0	3	0	1	1	1	3	0	0	1
rough terrain hauler			2		0		1	1	1	0	2	1	0	0	0	0	2	0	3	1	3	2
other powered conveying machines			46		36		38	37	39	36	33	62	44	43	44	33	41	39	38	33	35	31
cars, bus, motorcycle			1,681		1,579		1,687	1,691	1,717	1,718	1,660	1,667	1,683	1,645	1,715	1,786	1,784	1,826	1,753	1,735	1,572	1,295
railway vehicle			39		39		47	60	48	41	45	44	44	43	67	36	25	39	37	40	47	41
other vehicles			86		105		145	140	184	130	97	107	78	120	81	114	132	108	109	115	121	60
boiler			0		0		0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0
pressure vessel			4		0		0	1	0	0	0	0	1	1	0	1	1	1	1	0	0	0
other pressure vessels			18		14		10	6	7	4	9	10	4	8	7	5	7	5	5	5	6	4
chemical facilities			3		0		1	5	1	1	0	4	2	1	1	3	3	2	0	4	0	2
gas welding equipment			1		1		5	0	4	2	1	2	2	1	0	1	3	0	3	3	2	0
arc welding equipment			1		0		0	0	3	1	1	0	1	1	0	2	1	0	0	2	1	0
other welding equipment			1		0		0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	1
kiln, caldron			1		1		2	0	1	0	1	0	0	2	2	1	3	0	0	0	1	0
industrial dryer			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other kiln, caldron			0		0		0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0
transmission			1		4		4	4	6	3	2	4	7	9	4	4	1	5	4	8	5	3
electric power facilities			1		2		4	1	0	1	2	2	1	2	1	3	4	3	1	2	0	1



other electrical equipment			5	5		3	5	4	6	1	5	2	1	2	4	1	5	2	6	5	4
human power cranes			8	8		11	7	9	14	4	6	4	6	8	5	7	9	5	14	96	142
human power hauling equipment			472	535		548	630	725	799	630	727	688	739	770	800	770	928	897	971	898	902
human power machine			31	18		19	18	8	14	7	10	9	18	15	10	12	10	9	9	13	11
hand tool			113	97		104	96	88	101	88	72	100	99	94	83	62	79	69	68	85	87
ladder			232	240		266	257	281	295	272	304	271	235	303	297	302	270	318	350	354	394
slinging tool			62	67		78	65	57	62	37	42	34	54	46	40	39	29	36	30	28	34
other tools			581	555		537	642	639	647	515	479	523	534	525	591	567	578	572	614	652	593
other equipment, facilities			169	121		132	195	177	199	192	186	163	192	169	148	157	164	164	212	185	191
scaffolding			19	20		10	16	20	13	15	7	15	12	4	19	18	7	8	7	11	14
timbering			0	2		1	1	1	0	0	1	0	0	1	0	0	0	2	0	0	0
stairs, landing stage			407	447		420	438	479	513	479	478	436	460	478	534	477	540	611	636	630	664
opening			33	34		31	37	24	29	40	37	35	31	40	30	22	35	40	28	41	32
roof, beam, haze, crossbeam, principal rafter			18	12		11	21	17	11	16	12	23	21	11	10	7	11	12	10	16	13
working platform, boot board			357	308		324	328	329	330	312	341	298	292	312	311	289	302	317	341	302	309
passage			893	840		965	987	887	1,017	881	966	991	1,092	997	1,094	1,053	1,099	1,142	1,465	1,315	1,333
building, establishment			492	500		431	473	485	479	449	450	469	414	492	445	419	456	488	542	440	486

other temporary buildings, establishments			231		291		277	262	274	267	263	311	245	279	250	273	321	325	319	343	387	368
explosive substance			1		1		1	4	1	2	1	2	1	1	2	0	2	0	0	0	2	1
inflammable substance			7		7		5	4	8	4	3	3	5	2	5	5	5	2	3	3	7	5
inflammable gas			3		3		3	5	2	2	3	1	6	3	2	1	2	1	3	3	3	3
harmful substance			16		15		14	9	12	19	10	9	14	6	2	3	6	5	6	6	4	15
radiation			0		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances			17		11		19	24	16	24	13	9	12	11	16	13	10	11	20	6	12	20
metal material			507		426		396	395	374	340	273	263	251	263	291	279	246	241	260	263	233	196
lumber, bamboo			270		263		242	257	260	208	197	201	215	197	200	200	172	159	172	166	165	170
stone, sand, substance			49		32		28	23	31	30	20	17	17	16	20	28	17	11	19	25	24	15
other materials			140		144		111	137	124	126	93	102	107	107	96	103	101	72	81	89	71	77
load			2,202		1,998		1,797	1,871	1,976	1,907	1,601	1,558	1,598	1,584	1,575	1,518	1,484	1,513	1,526	1,619	1,570	1,563
machine/equipment as load			131		109		105	130	126	131	114	117	96	98	104	94	81	84	77	72	72	78
natural ground, rock			42		30		29	30	32	39	21	22	33	20	32	21	27	26	26	36	27	23
standing tree			13		13		7	6	12	7	15	11	22	9	8	5	9	2	8	5	9	10
water			12		11		10	16	10	12	7	5	191	12	10	11	13	16	9	12	10	12
abnormal environment			5		5		2	9	11	1	5	1	9	27	21	8	11	22	22	22	8	2
high/cold temperature environment			63		35		33	42	35	54	24	92	65	57	82	71	79	61	97	195	119	148
other environments			271		216		271	281	214	249	218	273	315	341	368	462	268	367	360	479	291	281

other causal agent			269	243	275	265	240	277	237	198	233	206	230	207	235	222	233	203	201	366
no causal agent			576	592	707	718	611	647	708	768	718	719	673	695	725	671	814	835	977	1,004
unclassifiable			81	105	61	81	88	95	61	44	52	69	55	48	43	36	32	30	28	20
total			18,439	17,540	17,259	17,740	17,464	17,354	15,253	15,861	16,048	15,908	16,303	16,421	15,976	16,087	16,622	17,783	16,968	16,859

#### Workers age of industrial accidents in transportation service in 1999-2020

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
19 years old or less	150	169	182	154	122	132	134	149	136	155	98	117	108	112	134	150	122	154	159	151	175	157
20-29	3,811	3,680	3,417	2,872	2,699	2,546	2,224	2,137	2,014	1,866	1,467	1,441	1,319	1,296	1,300	1,232	1,170	1,163	1,320	1,462	1,370	1,457
30-39	4,392	4,717	4,975	4,703	5,117	5,079	4,876	4,912	4,711	4,547	3,666	3,710	3,537	3,293	3,056	2,832	2,571	2,484	2,413	2,398	2,196	2,103
40-49	3,978	3,852	3,875	3,630	3,755	3,925	3,942	4,338	4,391	4,410	4,232	4,577	4,845	5,029	5,179	5,303	5,128	5,051	4,969	5,154	4,717	4,505
50-59	4,496	4,740	4,881	4,600	4,610	4,600	4,539	4,626	4,407	4,268	3,758	3,759	3,844	3,762	4,047	4,257	4,326	4,366	4,791	5,231	5,117	5,254
60 years old or more	884	962	1,109	1,149	1,237	1,407	1,544	1,578	1,805	2,108	2,032	2,257	2,395	2,416	2,587	2,647	2,659	2,869	2,970	3,387	3,393	3,383
total	17,711	18,120	18,439	17,108	17,540	17,689	17,259	17,740	17,464	17,354	15,253	15,861	16,048	15,908	16,303	16,421	15,976	16,087	16,622	17,783	16,968	16,859

#### Workers' number of workplace of industrial accidents in transportation service in 1999-2020

Workers scale	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
9 workers or less	2,004	2,130	2,130	1,963	2,037	2,070	1,946	1,972	1,888	1,891	1,534	1,596	1,632	1,645	1,492	1,538	1,446	1,430	1,495	1,494	1,454	1,388
10-29	5,447	5,600	5,731	5,496	5,279	5,327	5,217	5,305	5,121	4,975	4,373	4,512	4,672	4,512	4,559	4,672	4,363	4,331	4,467	4,626	4,230	4,415

30-49	3,464	3,619	3,597	3,216	3,460	3,400	3,264	3,449	3,279	3,284	2,884	3,045	2,976	2,930	3,190	3,066	3,138	3,123	3,211	3,520	3,430	3,548
50-99	3,106	3,114	3,194	2,977	3,028	2,991	3,044	3,076	3,037	2,976	2,624	2,784	2,921	2,881	2,988	2,917	2,911	3,020	3,146	3,582	3,412	3,273
100-299	2,932	2,914	3,018	2,692	3,000	3,022	2,915	3,078	3,058	3,101	2,897	3,049	3,044	3,037	3,111	3,275	3,164	3,174	3,233	3,482	3,418	3,257
300 workers or more	758	743	769	764	736	879	873	860	1,081	1,127	941	875	803	903	963	953	954	1,009	1,070	1,079	1,024	978
total	17,711	18,120	18,439	17,108	17,540	17,689	17,259	17,740	17,464	17,354	15,253	15,861	16,048	15,908	16,303	16,421	15,976	16,087	16,622	17,783	16,968	16,859

Month of industrial accidents in transportation service in 1999-2020

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
January	1,405	1,383	1,696	1,466	1,496	1,474	1,375	1,583	1,283	1,427	1,348	1,377	1,456	1,399	1,454	1,438	1,392	1,458	1,456	1,742	1,364	1,374
February	1,530	1,559	1,641	1,315	1,447	1,535	1,416	1,562	1,422	1,563	1,299	1,337	1,247	1,499	1,357	1,663	1,303	1,267	1,394	1,528	1,365	1,463
March	1,585	1,674	1,775	1,476	1,602	1,665	1,668	1,659	1,651	1,593	1,421	1,493	1,536	1,424	1,425	1,558	1,429	1,434	1,466	1,578	1,487	1,500
April	1,475	1,512	1,517	1,350	1,457	1,424	1,405	1,435	1,485	1,455	1,313	1,271	1,298	1,283	1,320	1,222	1,316	1,411	1,310	1,377	1,453	1,301
May	1,311	1,391	1,413	1,369	1,404	1,266	1,277	1,395	1,443	1,415	1,131	1,134	1,192	1,185	1,240	1,189	1,195	1,210	1,227	1,249	1,361	1,170
June	1,470	1,501	1,528	1,402	1,415	1,537	1,457	1,474	1,478	1,374	1,226	1,308	1,347	1,271	1,239	1,306	1,332	1,289	1,317	1,411	1,303	1,483
July	1,577	1,508	1,525	1,568	1,533	1,518	1,540	1,516	1,433	1,633	1,374	1,417	1,396	1,323	1,456	1,457	1,495	1,394	1,392	1,617	1,595	1,460
August	1,450	1,530	1,450	1,352	1,345	1,478	1,351	1,392	1,491	1,416	1,182	1,314	1,330	1,323	1,313	1,272	1,301	1,265	1,389	1,443	1,476	1,397
September	1,537	1,595	1,484	1,331	1,489	1,414	1,370	1,398	1,418	1,365	1,177	1,263	1,344	1,273	1,352	1,267	1,345	1,329	1,328	1,542	1,347	1,356
October	1,458	1,469	1,498	1,463	1,501	1,543	1,390	1,479	1,492	1,421	1,281	1,324	1,268	1,284	1,462	1,342	1,295	1,361	1,500	1,456	1,425	1,527
November	1,390	1,518	1,427	1,455	1,393	1,418	1,316	1,430	1,395	1,286	1,198	1,230	1,239	1,295	1,279	1,244	1,298	1,280	1,352	1,363	1,367	1,284
December	1,523	1,480	1,485	1,561	1,458	1,417	1,694	1,417	1,473	1,406	1,303	1,393	1,395	1,349	1,406	1,463	1,275	1,389	1,491	1,477	1,425	1,544
total	17,711	18,120	18,439	17,108	17,540	17,689	17,259	17,740	17,464	17,354	15,253	15,861	16,048	15,908	16,303	16,421	15,976	16,087	16,622	17,783	16,968	16,859



Nagano	184	167	205		213		200	162	209	208	163	187	170	179	176	223	187	190	201	246	228	221
Gifu	248	279	242		263		272	255	210	219	198	202	200	192	208	188	208	196	218	215	214	178
Shizuoka	566	636	569		576		524	564	589	586	466	567	519	527	497	544	505	557	549	551	532	583
Aichi	1,093	1,149	1,134		1,110		1,003	1,085	1,057	970	856	893	907	926	978	913	952	869	978	1,035	1,049	1,042
Mie	279	276	300		266		281	335	293	279	265	235	225	255	270	248	244	251	237	264	256	269
Shiga	191	172	188		195		163	176	160	183	138	165	170	178	188	161	155	181	139	169	143	152
Kyoto	425	415	387		387		422	396	372	324	316	316	373	303	360	388	413	401	404	418	357	363
Osaka	1,727	1,667	1,735		1,644		1,518	1,618	1,552	1,525	1,318	1,381	1,337	1,330	1,327	1,283	1,329	1,272	1,310	1,505	1,432	1,381
Hyogo	762	777	720		659		669	706	715	745	573	563	619	643	646	621	672	598	669	715	657	653
Nara	111	114	119		130		156	180	169	154	162	144	152	161	175	187	153	165	152	164	162	152
Wakayama	132	153	163		135		152	138	141	163	120	117	127	122	109	114	129	130	129	143	126	109
Tottori	58	83	44		62		63	50	70	47	59	50	56	48	46	54	45	51	59	79	57	59
Shimane	75	93	88		71		67	58	66	68	61	57	51	64	56	61	57	50	68	55	55	54
Okayama	289	308	323		288		286	276	330	328	254	241	290	311	312	298	299	286	317	358	326	303
Hiroshima	556	490	498		521		461	514	495	467	428	429	432	402	470	386	421	370	425	420	430	427
Yamaguchi	188	195	191		170		163	153	131	171	131	123	134	105	133	120	116	132	110	156	138	127
Tokushima	95	113	90		106		99	100	102	100	73	85	75	84	80	77	104	90	68	98	83	85
Kagawa	172	199	210		184		180	163	204	174	135	146	144	147	151	114	131	165	161	161	157	156
Ehime	214	220	205		214		184	238	224	192	171	206	170	181	163	174	167	172	187	166	180	173
Kochi	114	129	111		101		111	107	83	87	83	86	80	82	85	85	74	86	118	104	83	96
Fukuoka	868	817	863		926		787	834	814	833	738	801	753	733	726	769	721	768	804	839	822	834
Saga	139	156	141		156		167	150	157	136	116	152	140	145	160	164	144	123	133	152	172	163
Nagasaki	149	147	127		184		147	130	147	137	136	138	154	128	136	150	129	135	112	150	156	168

Kumamoto	220	268	235		228		228	268	233	247	214	211	206	175	218	189	183	210	199	238	214	216
Oita	152	133	129		134		148	123	134	118	112	104	108	98	86	115	84	106	93	129	127	123
Miyazaki	148	139	149		135		174	140	162	144	132	133	120	118	118	159	145	137	133	157	161	145
Kagoshima	237	240	234		222		254	236	241	224	187	197	207	188	213	222	203	211	189	222	193	215
Okinawa	33	56	35		49		74	51	67	71	65	79	75	69	81	80	85	96	116	93	95	112
total	17,711	18,120	18,439		17,540		17,259	17,740	17,464	17,354	15,253	15,861	16,048	15,908	16,303	16,421	15,976	16,087	16,622	17,783	16,968	16,859

Industrial accidents mean fatal and non-fatal injuries with work absence of 4 days and more. Data of 2011 year include Industrial accidents caused by Great East Japan Earthquake in 2011.

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

Return to [https://www.jisha.or.jp/english/statistics/2020e\\_industry.html](https://www.jisha.or.jp/english/statistics/2020e_industry.html)

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Fatal accidents in transportation service in Japan in 1999-2020

transportation service industry Code No.04

Type of fatal accidents in transportation service in 1999-2020

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
fall from height	17	25	26	13	20	22	22	15	17	16	14	13	20	7	11	17	21	7	19	14	20	19
falling to same level	1	3	1	1	4	2	0	2	4	3	3	4	3	2	2	2	0	2	1	1	2	1
crash	1	2	0	0	2	0	3	3	0	1	0	1	0	0	1	1	2	1	0	1	1	0
struck by flying or falling object	3	7	7	12	7	10	10	8	7	7	9	10	4	5	3	6	6	3	7	4	5	3





power transmission mechanism	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	
woodworking machine	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
construction machine	3	7	6	4	7	2	3	1	1	1	2	0	1	2	1	1	2	0	4	1	1	1
metal manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
general machine	1	1	0	2	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	1
mobile silviculture machine																	0	0	0	0	0	0
crane	3	3	4	7	3	5	6	6	6	9	2	4	4	1	2	4	3	3	4	2	3	3
conveying machine	231	221	193	182	194	188	189	143	141	99	81	105	89	94	82	97	75	66	76	61	58	52
vehicle	27	32	41	39	38	36	31	29	29	28	8	22	10	10	14	18	20	15	20	19	12	7
pressure vessel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
chemical facilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
welding equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
electric equipment	0	0	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
human power machine, tools	0	1	2	1	1	0	1	3	2	0	2	2	0	2	0	1	2	0	1	2	3	1
tools	1	4	4	4	0	4	2	2	5	2	1	1	1	5	0	2	3	2	7	1	1	1
other equipments, facilities	0	0	1	1	1	0	0	0	0	1	1	0	0	1	0	0	0	0	1	0	2	2
temporary buildings, establishments	6	6	5	2	6	7	8	4	4	7	2	2	9	2	2	2	3	2	5	4	4	3
hazards, harmful substances	0	0	0	0	0	1	0	2	0	0	1	0	0	0	0	0	1	0	0	1	0	1
materials	1	2	4	3	1	2	3	3	4	2	6	7	0	4	0	1	3	1	1	0	1	2
load	6	9	2	4	7	15	10	6	11	7	7	6	8	9	4	4	8	4	7	3	6	5
natural environment	3	2	1	1	3	3	4	4	0	1	2	4	179	3	2	1	5	1	1	4	4	2
other causal agent	3	2	1	4	4	4	5	0	5	1	3	1	4	1	2	1	0	0	0	1	1	3



lathe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
drill press, milling machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
grinding machine, buffing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
power press	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
forging pressure hammer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
shearing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other metal manufacturing machines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
centrifugal machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
mixer, grinder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
roll machine (except printingroll machine)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
injection molding machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
food manufacturing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
printing machine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial robot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
other general power machines	1	1	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	
felling machine																	0	0	0	0	0	0	
mobile logging machine																	0	0	0	0	0	0	
skyline yarding machine																	0	0	0	0	0	0	
other mobile silviculture machine																	0	0	0	0	0	0	
crane	1	0	0	2	1	1	0	1	1	3	0	0	0	0	0	2	1	1	0	0	0	2	
mobile crane	2	3	4	4	1	4	5	4	3	5	2	3	3	1	1	2	2	1	4	2	3	1	
derrick crane	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
elevator, lift	0	0	0	1	1	0	0	1	2	1	0	1	1	0	0	0	0	1	0	0	0	0	



kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
industrial dryer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other kiln, caldron	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
transmission	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
electric power facilities	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other electrical equipment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
human power cranes	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
human power hauling equipment	0	0	1	0	0	0	1	2	2	0	2	2	0	2	0	1	2	0	1	1	3	1	1
human power machine	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
hand tool	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ladder	0	0	1	0	0	0	0	0	4	0	0	1	1	0	0	0	2	0	2	0	1	1	1
slinging tool	1	2	2	4	0	3	2	2	0	2	1	0	0	5	0	1	1	2	1	1	0	0	0
other tools	0	2	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	4	0	0	0	0
other equipment, facilities	0	0	1	1	1	0	0	0	0	1	1	0	0	1	0	0	0	0	1	0	2	2	2
scaffolding	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
timbering	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
stairs, landing stage	2	0	1	0	2	1	0	0	0	1	1	0	2	1	0	1	0	0	2	0	2	1	1
opening	0	0	1	0	0	1	0	0	0	2	0	0	0	0	1	0	1	0	0	0	0	0	0
roof, beam, haze, crossbeam, principal rafter	1	2	0	0	0	0	1	1	0	1	0	0	2	1	0	0	0	0	1	0	0	0	0
working platform, boot board	0	0	1	1	0	0	0	0	2	0	0	0	1	0	0	0	1	1	0	2	0	0	0
passage	0	1	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0
building, establishment	2	1	2	1	3	2	6	2	1	2	1	2	3	0	0	1	0	0	1	1	2	2	2
other temporary buildings, establishments	1	2	0	0	1	3	1	0	0	0	0	0	1	0	0	0	1	1	1	0	0	0	0

explosive substance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable substance	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
inflammable gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
harmful substance	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
radiation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other hazards, harmful substances	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
metal material	1	1	3	1	0	2	0	1	1	0	2	4	0	2	0	0	1	1	0	0	1	0	0	0
lumber, bamboo	0	0	1	2	1	0	2	1	3	2	0	2	0	1	0	1	0	0	1	0	0	0	0	2
stone, sand, substance	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other materials	0	0	0	0	0	0	1	1	0	0	4	1	0	1	0	0	2	0	0	0	0	0	0	0
load	3	8	1	4	4	14	9	6	10	6	5	4	8	9	4	4	5	4	5	3	6	4	4	4
machine/equipment as load	3	1	1	0	3	1	1	0	1	1	2	2	0	0	0	0	3	0	2	0	0	0	1	1
natural ground, rock	1	0	1	0	2	2	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0
standing tree	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
water	1	0	0	0	0	1	1	2	0	0	0	0	175	1	0	0	2	0	0	1	1	0	0	0
abnormal environment	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0
high/cold temperature environment	0	0	0	0	0	0	2	0	0	0	1	2	1	0	1	0	2	0	0	3	2	1	1	1
other environments	1	2	0	0	1	0	1	2	0	1	0	2	2	1	1	0	0	0	1	0	1	0	1	0
other causal agent	3	2	1	4	4	4	5	0	5	1	3	1	4	1	2	1	0	0	0	1	1	3	3	3
no causal agent	1	1	0	3	1	1	4	8	6	10	7	10	8	7	11	11	12	14	19	9	12	6	6	6
unclassifiable	2	0	0	1	1	1	2	1	1	1	3	2	4	2	1	1	1	1	1	3	0	0	0	0
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90	90	90







Yamagata	1	4	2	5	5	3	4	1	2	2	2	1	0	1	0	4	1	1	0	0	1	0
Fukushima	5	7	7	9	3	3	1	6	8	7	5	3	12	3	5	6	2	0	1	1	1	4
Ibaraki	3	6	5	6	6	11	10	3	5	3	3	3	5	8	4	6	7	2	3	4	2	1
Tochigi	7	5	7	3	10	4	13	5	5	0	1	3	3	4	3	4	1	3	6	4	0	0
Gunma	3	6	4	3	5	8	6	8	7	4	3	2	2	3	0	3	0	2	3	3	5	2
Saitama	12	19	16	6	9	7	9	3	8	4	9	11	8	6	5	5	5	5	6	2	6	0
Chiba	6	7	8	11	16	7	10	4	7	4	3	7	3	8	9	4	3	5	7	3	7	3
Tokyo	12	9	10	12	11	12	9	14	9	7	3	7	8	10	3	11	4	7	10	8	7	7
Kanagawa	9	10	9	11	10	11	9	12	9	5	5	8	5	4	5	3	4	4	5	3	3	4
Niigata	6	6	6	4	3	5	2	2	4	3	2	2	2	1	2	3	2	3	2	1	2	3
Toyama	4	4	2	0	5	3	3	5	1	5	1	3	1	2	4	3	0	2	3	2	1	0
Ishikawa	6	1	0	3	5	2	7	0	3	2	3	0	6	0	2	1	2	1	0	2	0	1
Fukui	5	3	1	3	5	1	3	7	3	3	3	1	0	0	1	3	1	2	0	0	1	2
Yamanashi	2	2	0	1	1	1	0	1	1	1	1	3	0	1	1	1	2	0	2	0	0	0
Nagano	8	1	4	6	0	6	3	1	5	2	1	0	2	0	0	3	3	1	5	4	1	2
Gifu	4	4	9	1	5	4	9	7	1	5	3	2	2	4	1	4	2	1	2	0	2	0
Shizuoka	11	14	7	14	9	11	11	2	6	4	5	8	3	6	7	5	5	4	5	2	1	2
Aichi	25	21	22	17	22	12	15	12	7	13	16	11	13	8	10	4	10	7	5	5	4	6
Mie	1	4	6	6	3	7	4	4	1	2	1	1	0	1	2	2	1	4	1	3	3	4
Shiga	5	1	3	5	0	3	3	3	2	2	2	1	0	2	0	1	2	1	0	1	0	1
Kyoto	4	7	5	3	6	2	4	2	2	0	2	2	2	2	2	5	5	1	4	1	1	2
Osaka	23	24	20	20	13	22	19	14	20	8	13	10	7	8	10	12	8	11	12	8	11	8
Hyogo	14	18	5	8	8	10	14	10	9	9	2	7	5	5	5	3	11	2	4	7	6	3

Nara	2	4	2	2	2	3	5	5	3	0	0	2	1	3	2	2	1	2	2	2	0	0
Wakayama	1	5	4	3	4	2	0	0	0	1	0	2	1	1	0	0	4	1	2	0	1	0
Tottori	0	1	2	1	4	3	4	4	0	2	1	0	1	1	0	0	1	0	1	0	1	0
Shimane	0	2	4	2	1	1	2	1	0	2	3	1	1	1	1	0	0	0	0	0	2	0
Okayama	8	4	7	8	4	7	5	7	4	0	3	3	2	3	6	3	5	2	3	2	1	3
Hiroshima	14	8	7	5	6	17	9	12	8	4	2	4	10	4	4	1	4	2	4	5	6	0
Yamaguchi	3	5	2	3	0	9	5	0	3	1	2	2	3	0	1	3	0	3	0	2	1	0
Tokushima	0	3	2	2	1	1	3	1	1	1	1	1	0	0	0	0	2	1	0	3	1	1
Kagawa	2	3	6	3	5	0	2	0	2	2	2	1	1	3	1	2	1	0	4	3	3	0
Ehime	5	2	2	3	2	1	1	1	3	6	0	2	0	2	0	3	1	0	2	0	0	0
Kochi	1	2	3	3	1	1	1	2	2	1	1	1	1	1	2	1	1	1	0	1	1	2
Fukuoka	18	10	12	13	20	12	7	13	14	13	5	6	11	8	5	6	8	2	8	9	6	7
Saga	6	1	3	5	5	3	3	5	1	1	0	2	0	2	0	1	1	3	2	0	1	2
Nagasaki	2	0	6	0	2	4	2	2	2	4	1	1	1	1	1	2	1	2	2	1	1	1
Kumamoto	3	3	2	3	6	4	4	2	4	7	2	3	2	4	3	0	1	0	2	1	2	0
Oita	3	1	2	5	2	4	2	2	1	2	2	2	1	1	0	0	0	0	0	0	1	2
Miyazaki	1	3	4	2	4	0	3	2	1	1	0	4	0	4	0	1	2	2	4	2	1	3
Kagoshima	5	6	1	9	4	1	2	4	4	4	1	3	3	2	0	3	2	2	4	0	1	2
Okinawa	1	2	0	0	2	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	1	0
total	288	291	265	259	267	269	269	212	215	171	128	167	319	143	122	144	140	109	148	112	109	90

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

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