

Fatal and non-fatal accidents in road cargo transportation service in Japan in 1999-2021

road cargo transportation service industry Code No.0403

Type of accidents in road cargo transportation service in 1999-2021

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	total	Type of accidents
fall from height	4,149	4,336	4,536	4,100	4,228	4,247	4,189	4,190	4,213	4,152	3,619	3,662	3,627	3,645	3,806	3,878	3,784	3,731	3,945	4,205	4,063	4,113	4,255	92,673	fall from height
falling to same level	1,395	1,525	1,675	1,488	1,560	1,624	1,632	1,755	1,700	1,819	1,570	1,711	1,775	1,773	1,853	1,919	1,823	1,808	1,970	2,319	2,121	2,255	2,429	41,499	falling to same level
crash	1,121	1,119	1,101	1,002	1,092	1,032	1,075	1,088	1,067	968	897	969	850	941	966	928	930	988	1,014	1,043	1,021	1,039	1,047	23,298	crash
struck by flying or falling object	1,124	1,066	1,113	1,008	958	1,000	913	979	848	845	714	686	730	722	729	717	658	688	664	681	611	612	614	18,680	struck by flying or falling object
collapse	523	562	540	491	546	538	481	495	510	499	429	462	417	432	444	373	394	368	383	423	428	382	397	10,517	collapse
crashed by	746	741	722	774	686	763	731	823	845	777	577	619	650	645	626	664	632	657	685	697	729	663	680	16,132	crashed by
caught in/between	1,945	2,089	2,018	1,939	1,922	1,927	1,756	1,866	1,801	1,776	1,475	1,583	1,511	1,494	1,496	1,514	1,425	1,426	1,430	1,485	1,463	1,375	1,383	38,099	caught in/between
cut	196	228	240	193	205	176	182	184	176	176	172	169	159	145	185	148	127	156	137	157	145	143	141	3,940	cut
injury to the sole of the foot	18	30	30	16	26	28	21	28	32	16	14	13	17	18	21	24	24	20	19	25	21	21	17	499	injury to the sole of the foot
drown	1			2	2	1	1	2		1	1	1	121	1			2				3			139	drown
contact to high/low-temperature	57	65	78	75	61	62	71	58	64	75	48	99	92	89	95	77	92	72	101	198	134	158	88	2,009	contact to high/low-temperature
contact to harmful substance	18	31	21	29	20	19	24	16	17	30	19	19	16	16	17	12	14	11	16	18	17	27	17	444	contact to harmful substance
electric shock	2	4	2	3	3		3	1	1	1	3	2	2	1	1	3	2	1	1		1	2	4	43	electric shock
explosion	5	5	2	2	7	5	4	5	5	4	2	4	3		1	1	2		4	2	5	2	4	74	explosion

burst	6	10	16	4	10	12	9	9	11	4	4	6	4	5	4	8	3	6	4	2	6	6	5	154	burst
fire	3	10	4	2	4	5	4	4	4	2	3	1		2	2	5	4		1	2	1	1	2	66	fire
traffic accident (public road)	1,604	1,621	1,583	1,440	1,451	1,423	1,343	1,292	1,219	1,104	900	981	1,029	997	1,026	1,006	944	900	889	864	804	767	809	25,996	traffic accident (public road)
traffic accident (others)	15	16	13	5	5	8	7	7	11	6	3	5	7	11	6	9	11	6	7	9	9	5	8	189	traffic accident (others)
reaction to motion/improper motion	1,773	1,731	1,749	1,682	1,744	1,702	1,686	1,788	1,821	1,894	1,707	1,719	1,808	1,744	1,737	1,719	1,754	1,827	1,942	2,153	2,146	2,362	2,562	42,750	reaction to motion/improper motion
others	41	55	45	45	50	72	52	49	51	61	67	58	93	59	57	42	73	61	71	72	74	209	399	1,856	others
unclassifiable	23	15	30	27	30	17	26	27	29	27	14	13	25	31	22	26	22	21	25	21	19	11	8	509	unclassifiable
total	14,765	15,259	15,518	14,327	14,610	14,661	14,210	14,666	14,425	14,237	12,238	12,782	12,936	12,771	13,094	13,073	12,720	12,747	13,308	14,376	13,821	14,153	14,869	319,566	total

Causal agents (large) of fatal and non-fatal accidents in road cargo transportation service in 1999-2021

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	total	Causal (L) agents
machine	179	167	174	172	169	154	115	141	154	139	129	108	115	111	128	104	105	110	107	113	93	100	109	2,996	machine
crane, conveying machine	7,586	7,863	7,851	7,353	7,493	7,477	7,233	7,235	7,047	6,690	5,753	6,038	6,114	6,022	6,240	6,183	6,082	5,894	6,119	6,339	6,104	6,003	6,276	152,995	crane, conveying machine
other equipment	1,418	1,441	1,540	1,509	1,500	1,560	1,520	1,728	1,804	1,930	1,561	1,643	1,611	1,705	1,716	1,724	1,721	1,859	1,859	2,014	2,090	2,137	2,163	39,753	other equipment
temporary buildings, establishments	1,633	1,831	1,891	1,696	1,814	1,945	1,832	1,917	1,887	2,003	1,825	1,939	1,863	1,882	1,905	2,004	1,923	2,052	2,195	2,553	2,371	2,539	2,664	46,164	temporary buildings, establishments
substance, material	1,034	1,012	968	873	866	824	790	810	788	717	583	570	586	572	610	595	524	484	541	539	495	478	445	15,704	substance, material
load	2,129	2,159	2,249	1,953	2,031	1,887	1,834	1,902	1,976	1,945	1,613	1,592	1,598	1,585	1,585	1,503	1,466	1,462	1,462	1,562	1,518	1,569	1,579	40,159	load

environment	173	193	273	187	191	212	220	243	181	235	182	272	429	281	321	357	261	304	334	512	319	351	369	6,400	environment
others	613	593	572	584	546	602	666	690	588	578	592	620	620	613	589	603	638	582	691	744	831	976	1,264	15,395	others
total	14,765	15,259	15,518	14,327	14,610	14,661	14,210	14,666	14,425	14,237	12,238	12,782	12,936	12,771	13,094	13,073	12,720	12,747	13,308	14,376	13,821	14,153	14,869	319,566	total

Causal agents (middle) of fatal and non-fatal accidents in road cargo transportation service in 1999-2021

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	total	Causal (M) agents
engine	3	2	2	2		1		1	1			1		1	3	1	2	1	2	2	3	1	2	31	engine
power transmission mechanism	9	6	9	8	4	4	6	8	7	4	8	7	8	5	7	7	10	7	1	3	7	3	7	145	power transmission mechanism
woodworking machine	30	28	25	28	21	22	15	15	19	26	16	16	15	14	18	10	10	15	12	7	6	12	9	389	woodworking machine
construction machine	73	53	68	66	72	50	36	54	59	45	49	43	46	45	39	45	36	49	42	44	29	39	34	1,116	construction machine
metal manufacturing machine	13	19	20	9	24	17	11	10	9	14	14	11	18	10	15	8	17	11	10	10	6	11	23	310	metal manufacturing machine
general machine	51	59	50	59	48	60	47	53	59	50	42	30	28	36	46	33	29	25	38	45	40	34	32	994	general machine
mobile silviculture machine																	1	2	2	2	2		2	11	mobile silviculture machine
crane	353	317	311	305	331	321	309	281	265	243	181	207	186	173	208	211	193	201	183	192	196	169	191	5,527	crane
conveying machine	6,833	7,196	7,188	6,675	6,806	6,751	6,523	6,508	6,276	5,986	5,184	5,474	5,552	5,452	5,674	5,575	5,537	5,324	5,531	5,735	5,523	5,513	5,692	138,508	conveying machine
vehicle	400	350	352	373	356	405	401	446	506	461	388	357	376	397	358	397	352	369	405	412	385	321	393	8,960	vehicle
pressure vessel	14	15	22	14	14	12	9	7	7	3	10	10	5	8	7	4	8	6	6	5	6	3	6	201	pressure vessel

chemical facilities	1		3	2		3	1	5	1			3	2	1		2	3	2		4		2	8	43	chemical facilities
welding equipment	3	3	3	4	1	3	3		7	3	2	1	1	2		2	3		3	5	1	1	2	53	welding equipment
kiln, caldron		1		2	1		1		1		1		1	2	1		1				1			13	kiln, caldron
electric equipment	11	13	5	5	9	2	3	7	5	4	4	8	6	9	3	6	4	9	5	7	8	5	14	152	electric equipment
human power machine, tools	554	567	595	636	618	668	626	698	782	876	684	771	747	812	825	821	796	969	931	992	1,035	1,078	1,074	18,155	human power machine, tools
tools	721	726	781	757	764	758	768	853	866	897	719	701	720	726	754	775	786	758	792	843	898	891	909	18,163	tools
other equipments, facilities	114	116	131	89	93	114	109	158	135	147	141	149	129	145	126	114	120	115	122	158	141	157	150	2,973	other equipments, facilities
temporary buildings, establishments	1,633	1,831	1,891	1,696	1,814	1,945	1,832	1,917	1,887	2,003	1,825	1,939	1,863	1,882	1,905	2,004	1,923	2,052	2,195	2,553	2,371	2,539	2,664	46,164	temporary buildings, establishments
hazards, harmful substances	33	41	33	32	31	22	35	33	25	46	22	20	28	20	22	20	19	17	24	17	24	41	21	626	hazards, harmful substances
materials	1,001	971	935	841	835	802	755	777	763	671	561	550	558	552	588	575	505	467	517	522	471	437	424	15,078	materials
load	2,129	2,159	2,249	1,953	2,031	1,887	1,834	1,902	1,976	1,945	1,613	1,592	1,598	1,585	1,585	1,503	1,466	1,462	1,462	1,562	1,518	1,569	1,579	40,159	load
natural environment	173	193	273	187	191	212	220	243	181	235	182	272	429	281	321	357	261	304	334	512	319	351	369	6,400	natural environment
other causal agent	135	147	125	92	105	121	113	110	98	103	79	58	83	82	100	86	111	84	106	116	98	224	398	2,774	other causal agent
no causal agent	448	424	418	459	409	458	527	549	449	440	488	549	513	494	463	489	506	484	562	610	717	741	852	12,049	no causal agent
unclassifiable	30	22	29	33	32	23	26	31	41	35	25	13	24	37	26	28	21	14	23	18	16	11	14	572	unclassifiable
total	14,765	15,259	15,518	14,327	14,610	14,661	14,210	14,666	14,425	14,237	12,238	12,782	12,936	12,771	13,094	13,073	12,720	12,747	13,308	14,376	13,821	14,153	14,869	319,566	total

Causal agents (small) of fatal and non-fatal accidents in road cargo transportation service in 1999-2021

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	total	Causal (S) agents	
engine			2					1	1			1		1	3	1	2	1	2	2	3	1	2	23	engine	
power transmission mechanism			9		4		6	8	7	4	8	7	8	5	7	7	10	7	1	3	7	3	7	118	power transmission mechanism	
circular sawing machine			18		16		10	6	10	19	8	11	8	9	10	6	7	9	9	1	4	9	1	171	circular sawing machine	
band sawing machine								2	1	1				1	1	1								7	band sawing machine	
wood planer machine											2		1								1			4	wood planer machine	
hollow chisel mortiser, wood borer					1						1			1										4	hollow chisel mortiser, wood borer	
chamfering machine, router, woodworking milling machine																										chamfering machine, router, woodworking milling machine
chain saw			4				3	4	3	2	3	3	4	1	3		2	3	1	3	1	3	1	44	chain saw	
other woodworking machines			3		4		2	3	5	4	2	2	2	2	4	3	1	3	2	2			7	51	other woodworking machines	
leveling, transporting or loading machine			17		18		12	15	25	11	18	8	7	15	16	12	13	14	17	12	12	10	9	261	leveling, transporting or loading machine	
excavating machine			34		28		19	20	14	18	17	20	25	17	13	20	10	16	14	20	9	14	15	343	excavating machine	
foundation work machine			1		2				1	1		2									1	1		9	foundation work machine	
hardening machine			8		8			3	4	2	1	1	2	2	2	1	2	2	1		1			40	hardening machine	

power machines			44		40		45	45	45	40	36	27	25	34	42	31	27	24	34	37	36	28	28	668	power machines
felling machine																		1	1	1	2		1	6	felling machine
mobile logging machine																	1		1	1			1	4	mobile logging machine
skyline yarding machine																									skyline yarding machine
other mobile silviculture machine																	1							1	other mobile silviculture machine
crane			124		136		118	123	108	101	64	80	64	78	72	70	60	73	70	67	75	63	68	1,614	crane
mobile crane			154		151		159	137	129	123	94	107	107	78	112	112	116	109	98	106	104	96	94	2,186	mobile crane
derrick crane					1																			1	derrick crane
elevator, lift			18		24		17	16	18	15	17	10	8	13	19	15	12	11	11	12	13	3	17	269	elevator, lift
cargo lifting appliance								1					2					1			1	2		7	cargo lifting appliance
gondola											1											1	2	4	gondola
lumberyard equipment, logging cableway														1				1					1	3	lumberyard equipment, logging cableway
simple skyline yarding equipment																									simple skyline yarding equipment
other powered crane			15		19		15	5	9	4	5	10	5	3	5	14	5	6	4	7	3	4	9	147	other powered crane
truck			6,205		5,866		5,599	5,541	5,350	5,157	4,456	4,717	4,763	4,688	4,969	4,883	4,845	4,608	4,801	4,930	4,758	4,806	4,962	95,904	truck
forklift			821		824		810	855	791	707	633	622	680	632	578	592	600	615	627	708	661	604	637	12,997	forklift
railway equipment								1			2	1	2	3	1						4		1	15	railway equipment
conveyor			121		84		78	71	93	85	63	74	65	84	87	66	49	66	66	67	72	69	59	1,419	conveyor
loader			2		4		2	3	6	3	2	5	3	5	2	4	7	4	3	2	4	2	6	69	loader
straddle carrier								3	2					3		1	1	1	3			1	2	17	straddle carrier

harmful substance			13		13		12	9	10	18	10	7	12	6	2	3	4	5	5	6	4	15	6	160	harmful substance
radiation																									radiation
other hazards, harmful substances			13		7		14	13	7	21	8	8	7	8	13	12	6	10	13	5	10	17	10	202	other hazards, harmful substances
metal material			491		411		384	382	364	331	264	249	234	249	288	266	233	231	253	256	227	186	189	5,488	metal material
lumber, bamboo			267		261		238	250	257	206	194	195	212	193	194	194	168	157	170	164	159	168	138	3,785	lumber, bamboo
stone, sand, substance			44		30		26	21	25	21	15	13	14	14	17	25	16	9	16	19	17	14	12	368	stone, sand, substance
other materials			133		133		107	124	117	113	88	93	98	96	89	90	88	70	78	83	68	69	85	1,822	other materials
load			2,125		1,929		1,732	1,779	1,857	1,818	1,510	1,480	1,507	1,492	1,488	1,412	1,388	1,382	1,390	1,494	1,446	1,498	1,507	30,234	load
machine/equipment as load			124		102		102	123	119	127	103	112	91	93	97	91	78	80	72	68	72	71	72	1,797	machine/equipment as load
natural ground, rock			37		25		19	14	24	31	18	17	20	11	19	16	20	19	14	27	18	19	12	380	natural ground, rock
standing tree			6		7		4	4	8	5	11	8	13	7	5	2	6	1	8	3	7	6	10	121	standing tree
water			8		10		8	10	6	7	7	4	157	11	7	10	10	11	6	9	8	8	6	303	water
abnormal environment			2		4		1				3		2	9	4	2	1			1	5	2	2	38	abnormal environment
high/cold temperature environment			47		30		30	38	28	48	24	85	58	50	73	64	73	51	84	178	106	135	71	1,273	high/cold temperature environment
other environments			173		115		158	177	115	144	119	158	179	193	213	263	151	222	222	294	175	181	268	3,520	other environments
other causal agent			125		105		113	110	98	103	79	58	83	82	100	86	111	84	106	116	98	224	398	2,279	other causal agent
no causal agent			418		409		527	549	449	440	488	549	513	494	463	489	506	484	562	610	717	741	852	10,260	no causal agent
unclassifiable			29		32		26	31	41	35	25	13	24	37	26	28	21	14	23	18	16	11	14	464	unclassifiable
total			15,518		14,610		14,210	14,666	14,425	14,237	12,238	12,782	12,936	12,771	13,094	13,073	12,720	12,747	13,308	14,376	13,821	14,153	14,869	260,554	total

Workers age of fatal and non-fatal accidents in road cargo transportation service in 1999-2021

February	1,215	1,254	1,337	1,091	1,159	1,246	1,116	1,227	1,143	1,232	1,022	1,037	941	1,130	1,037	1,250	989	987	1,103	1,209	1,105	1,150	1,241	26,221	February
March	1,310	1,415	1,500	1,234	1,333	1,384	1,395	1,376	1,348	1,330	1,139	1,214	1,237	1,172	1,152	1,244	1,123	1,111	1,189	1,253	1,186	1,206	1,356	29,207	March
April	1,215	1,294	1,282	1,145	1,217	1,202	1,178	1,185	1,209	1,211	1,059	1,030	1,055	1,038	1,050	995	1,054	1,100	1,054	1,106	1,192	1,130	1,187	26,188	April
May	1,092	1,164	1,180	1,165	1,178	1,031	1,025	1,157	1,181	1,178	869	893	951	958	995	950	947	974	998	1,031	1,104	1,024	1,123	24,168	May
June	1,243	1,257	1,281	1,184	1,198	1,289	1,215	1,213	1,232	1,143	1,010	1,052	1,131	1,041	1,016	1,051	1,089	1,038	1,075	1,166	1,068	1,292	1,194	26,478	June
July	1,334	1,284	1,310	1,338	1,310	1,291	1,310	1,261	1,205	1,366	1,151	1,187	1,163	1,061	1,213	1,212	1,207	1,138	1,141	1,355	1,331	1,251	1,250	28,669	July
August	1,240	1,309	1,228	1,137	1,129	1,252	1,116	1,189	1,245	1,170	950	1,057	1,095	1,075	1,082	1,022	1,068	1,006	1,102	1,172	1,222	1,179	1,305	26,350	August
September	1,334	1,366	1,281	1,114	1,249	1,166	1,152	1,176	1,193	1,162	969	1,049	1,094	1,018	1,120	1,015	1,084	1,068	1,067	1,250	1,157	1,159	1,254	26,497	September
October	1,215	1,259	1,303	1,242	1,263	1,284	1,177	1,232	1,250	1,158	1,056	1,088	1,052	1,062	1,184	1,091	1,042	1,104	1,213	1,228	1,157	1,316	1,155	27,131	October
November	1,169	1,291	1,212	1,218	1,198	1,204	1,100	1,214	1,164	1,047	986	1,014	1,021	1,069	1,043	1,017	1,041	1,028	1,085	1,120	1,106	1,093	1,146	25,586	November
December	1,261	1,243	1,261	1,307	1,216	1,153	1,356	1,192	1,232	1,109	1,022	1,138	1,127	1,088	1,131	1,148	1,026	1,113	1,171	1,189	1,158	1,284	1,371	27,296	December
total	14,765	15,259	15,518	14,327	14,610	14,661	14,210	14,666	14,425	14,237	12,238	12,782	12,936	12,771	13,094	13,073	12,720	12,747	13,308	14,376	13,821	14,153	14,869	319,566	total

Prefecture of fatal and non-fatal accidents in road cargo transportation service in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	916	1,008	974		907		868	968	826	744	721	720	745	740	812	805	706	732	777	795	725	775	803	17,067	Hokkaido
Aomori	120	118	146		117		105	84	136	120	102	99	107	127	119	110	108	111	114	128	117	125	165	2,478	Aomori
Iwate	156	133	172		122		132	145	128	119	86	102	139	123	138	149	142	121	128	142	132	98	123	2,730	Iwate
Miyagi	346	334	308		318		314	344	270	301	258	263	386	285	276	331	278	292	313	332	338	305	373	6,565	Miyagi
Akita	104	105	97		74		63	80	88	73	72	88	81	68	66	83	68	79	71	110	81	84	95	1,730	Akita
Yamagata	103	106	89		84		91	124	104	113	90	79	106	91	86	89	96	73	90	107	88	84	127	2,020	Yamagata
Fukushima	236	258	233		217		214	211	179	209	185	196	191	222	225	212	170	195	183	196	183	208	205	4,328	Fukushima
Ibaraki	355	389	400		371		372	387	362	363	298	351	404	327	371	352	346	332	364	362	333	365	392	7,596	Ibaraki
Tochigi	241	225	244		223		211	192	221	219	208	197	164	201	189	197	180	175	189	222	201	228	245	4,372	Tochigi
Gunma	322	333	364		317		315	321	317	279	241	262	276	253	258	283	255	295	274	292	289	299	303	6,148	Gunma
Saitama	711	722	851		838		858	922	951	921	853	849	867	886	860	890	949	931	926	1,030	1,042	1,064	1,129	19,050	Saitama
Chiba	539	620	714		579		636	614	617	685	602	621	624	612	635	647	635	633	634	681	674	792	766	13,560	Chiba

Fukuoka	756	717	756		780		653	711	680	673	591	646	609	614	602	646	590	638	683	713	704	756	773	14,291	Fukuoka
Saga	128	145	132		142		149	142	142	118	106	137	121	128	152	156	133	114	122	142	164	158	149	2,880	Saga
Nagasaki	135	125	113		150		130	100	120	106	102	106	121	102	102	112	97	105	78	114	128	137	117	2,400	Nagasaki
Kumamoto	196	226	204		201		194	244	207	228	182	171	180	157	193	168	158	181	172	214	190	197	157	4,020	Kumamoto
Oita	128	122	108		111		124	104	118	103	96	93	87	77	73	90	69	93	84	107	100	105	112	2,104	Oita
Miyazaki	133	113	130		122		154	120	144	120	118	115	107	106	104	134	127	120	114	133	135	127	147	2,623	Miyazaki
Kagoshima	199	210	202		185		226	209	219	203	163	174	176	168	188	190	177	175	161	187	178	194	193	3,977	Kagoshima
Okinawa	19	38	21		30		46	23	37	35	35	51	48	44	58	43	56	62	81	62	72	85	81	1,027	Okinawa
total	14,765	15,259	15,518		14,610		14,210	14,666	14,425	14,237	12,238	12,782	12,936	12,771	13,094	13,073	12,720	12,747	13,308	14,376	13,821	14,153	14,869	290,578	total

Fatal and non-fatal accidents mean fatal and non-fatal injuries and occupational diseases with work absence of 4 days and more. 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.htm> (MHLW, Japan)

Return to https://www.jisha.or.jp/english/statistics/2021e_industry.html

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Fatal accidents in road cargo transportation service in Japan in 1999-2021

road cargo transportation service industry Code No.0403

Type of fatal accidents in road cargo transportation service in 1999-2021

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	total	Type of accidents
fall from height	16	24	23	12	19	20	21	14	15	13	14	12	18	7	9	17	17	5	18	12	17	16	12	351	fall from height
falling to same level	1	3	1	1	4	1		2	3	1	3	2	2	2	1	1		2	1	1	1		3	36	falling to same level
crash	1	2			2		3	3		1		1			1	1	1	1		1	1			19	crash
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	5	148	struck by flying or falling object
collapse	6	6	1	5	4	13	10	7	9	3	4	6	4	9	3	5	7	4	6	2	4	3	2	123	collapse

crashed by	8	3	3	5	4	5	2	12	7	6	4	4	4	8	5	12	3	2	5	3	5	6	5	121	crashed by
caught in/between	16	20	18	18	20	18	13	11	16	18	4	9	15	15	9	11	10	6	16	10	7	14	10	304	caught in/between
cut										1														1	cut
injury to the sole of the foot																									injury to the sole of the foot
drown	1			1	2	1	1	2			1		121	1			2				1			134	drown
contact to high/low-temperature							2				1	2			1		2			5	2		1	16	contact to high/low-temperature
contact to harmful substance				1				1				1	1	1			1					1		7	contact to harmful substance
electric shock							1																	1	electric shock
explosion						1					1													2	explosion
burst	1						2					1				1						1	1	7	burst
fire								1		1														2	fire
traffic accident (public road)	204	195	178	166	169	159	169	119	120	81	65	88	65	74	62	62	59	57	57	47	40	28	37	2,301	traffic accident (public road)
traffic accident (others)	1		1								1					1						1		5	traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others	1	2	1	2	4	5	4	7	8	9	7	9	36	7	11	9	10	12	19	10	12	5	16	206	others
unclassifiable				1					1	1	2		1	1	1	1		1	1	1				12	unclassifiable
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78	92	3,796	total

Causal agents (large) of fatal accidents in road cargo transportation service in 1999-2021

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	total	Causal (L) agents
machine	4	8	6	6	7	2	2	1	1	3	2		1	2	1	1	3		5	1	1	1	1	59	machine
crane, conveying machine	236	232	210	198	207	198	204	157	152	113	85	115	96	96	84	105	83	70	86	71	65	56	59	2,978	crane, conveying machine
other equipment	1	3	6	6	1	4	3	5	6	2	4	2	1	8	1	3	4	2	8	3	5	4	5	87	other equipment
temporary buildings, establishments	5	6	4	2	6	5	6	3	3	5	2	2	5	2	1	2	2	1	3	3	2	3	2	75	temporary buildings, establishments
substance, material	1	2	4	3	1	3	3	5	4	2	6	7		4		1	3	1	1	1	1	3	2	58	substance, material
load	6	9	2	4	6	15	10	6	11	7	7	6	8	9	4	4	8	4	7	3	6	5	5	152	load
environment	3	2	1	1	3	2	4	3			2	3	148	2	2	1	5			3	3	1	3	192	environment

others	3			4	4	4	6	7	9	10	8	10	12	7	13	10	10	15	20	11	12	5	15	195	others
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78	92	3,796	total

Causal agents (middle) of fatal accidents in road cargo transportation service in 1999-2021

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	total	Causal (M) agents	
engine																										engine
power transmission mechanism										1															1	power transmission mechanism
woodworking machine										1															1	woodworking machine
construction machine	3	7	6	4	7	2	2	1	1	1	2		1	2	1	1	2		4	1	1	1		50	construction machine	
metal manufacturing machine																										metal manufacturing machine
general machine	1	1		2													1		1					1	7	general machine
mobile silviculture machine																										mobile silviculture machine
crane	3	3	3	7	3	5	6	6	6	7	2	4	4	1	2	4	3	3	4	2	3	3	3	3	87	crane
conveying machine	225	215	189	180	190	184	188	140	140	95	80	104	88	92	80	96	72	64	76	61	58	50	53	2,720	conveying machine	
vehicle	8	14	18	11	14	9	10	11	6	11	3	7	4	3	2	5	8	3	6	8	4	3	3	171	vehicle	
pressure vessel															1		1								2	pressure vessel
chemical facilities																										chemical facilities
welding equipment																										welding equipment
kiln, caldron																										kiln, caldron
electric equipment																										electric equipment
human power machine, tools		1	2	1			1	3	2		2	1		2		1	2		1	2	3	1	1	26	human power machine, tools	
tools	1	2	3	4		4	2	2	4	2	1	1	1	5		2	1	2	6	1		1	3	48	tools	
other equipments, facilities			1	1	1						1			1					1		2	2	1	11	other equipments, facilities	
temporary buildings, establishments	5	6	4	2	6	5	6	3	3	5	2	2	5	2	1	2	2	1	3	3	2	3	2	75	temporary buildings, establishments	
hazards, harmful substances						1		2												1		1		5	hazards, harmful substances	
materials	1	2	4	3	1	2	3	3	4	2	6	7		4		1	3	1	1		1	2	2	53	materials	
load	6	9	2	4	6	15	10	6	11	7	7	6	8	9	4	4	8	4	7	3	6	5	5	152	load	

natural environment	3	2	1	1	3	2	4	3			2	3	148	2	2	1	5			3	3	1	3	192	natural environment
other causal agent	2			1	3	3	2		2		2		3		2	1				1	1	1	6	30	other causal agent
no causal agent				2	1	1	3	7	6	9	4	8	7	6	10	8	10	14	19	8	11	4	9	147	no causal agent
unclassifiable	1			1			1		1	1	2	2	2	1	1	1		1	1	2				18	unclassifiable
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78	92	3,796	total

Causal agents (small) of fatal accidents in road cargo transportation service in 1999-2021

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	total	Causal (S) agents	
engine																										engine
power transmission mechanism										1															1	power transmission mechanism
circular sawing machine										1															1	circular sawing machine
band sawing machine																										band sawing machine
wood planer machine																										wood planer machine
hollow chisel mortiser, wood borer																										hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																										chamfering machine, router, woodworking milling machine
chain saw																										chain saw
other woodworking machines																										other woodworking machines
leveling, transporting or loading machine	1	2	2	1	4	1		1			1		1		1	1	1		3						20	leveling, transporting or loading machine
excavating machine		1	4	4	2	2		2			1	1									1				18	excavating machine
foundation work machine																										foundation work machine
hardening machine	1			1		1														1					4	hardening machine

gas welding equipment																							gas welding equipment		
arc welding equipment																								arc welding equipment	
other welding equipment																								other welding equipment	
kiln, caldron																								kiln, caldron	
industrial dryer																								industrial dryer	
other kiln, caldron																								other kiln, caldron	
transmission																								transmission	
electric power facilities																								electric power facilities	
other electrical equipment																								other electrical equipment	
human power cranes			1	1														1				1	4	human power cranes	
human power hauling equipment			1				1	2	2		2	1		2		1	2		1	1	3	1	20	human power hauling equipment	
human power machine								1															1	human power machine	
hand tool		1																					1	hand tool	
ladder									3			1	1					2			1	1	9	ladder	
slinging tool	1	2	2	4		3	2	2		2	1			5		1	1	2	1	1			2	32	slinging tool
other tools			1			1			1							1			3					7	other tools
other equipment, facilities			1	1	1						1			1				1		2	2	1		11	other equipment, facilities
scaffolding										1														1	scaffolding
timbering																									timbering
stairs, landing stage	2				2	1					1		1	1		1			1		1	1		12	stairs, landing stage
opening			1			1				1						1								4	opening
roof, beam, haze, crossbeam, principal rafter	1	2					1			1			1	1				1						8	roof, beam, haze, crossbeam, principal rafter
working platform, boot board			1	1					2										2					6	working platform, boot board
passage		1						1						1					1				1	5	passage
building, establishment	1	1	2	1	3	2	5	2	1	2	1	2	2		1			1		1	2			30	building, establishment

other temporary buildings, establishments	1	2			1	1							1				1	1					1	9	other temporary buildings, establishments	
explosive substance																										explosive substance
inflammable substance																									1	inflammable substance
inflammable gas																										inflammable gas
harmful substance																							1	2	harmful substance	
radiation																										radiation
other hazards, harmful substances						1																	1		2	other hazards, harmful substances
metal material	1	1	3	1		2		1	1		2	4		2			1	1				1			21	metal material
lumber, bamboo			1	2	1		2	1	3	2		2		1		1			1			2	2	21	lumber, bamboo	
stone, sand, substance		1																							1	stone, sand, substance
other materials							1	1			4	1		1			2								10	other materials
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	130	load
machine/equipment as load	3	1	1		2	1	1		1	1	2	2					3		2				1	1	22	machine/equipment as load
natural ground, rock	1		1		2	1					1					1									7	natural ground, rock
standing tree																								1	1	standing tree
water	1					1	1	1					145	1			2					1			153	water
abnormal environment				1									1	1			1								4	abnormal environment
high/cold temperature environment							2				1	2	1		1		2				3	2	1	1	16	high/cold temperature environment
other environments	1	2			1		1	2				1	1		1									1	11	other environments
other causal agent	2			1	3	3	2		2		2		3		2	1				1	1	1	6	30	other causal agent	
no causal agent				2	1	1	3	7	6	9	4	8	7	6	10	8	10	14	19	8	11	4	9	147	no causal agent	
unclassifiable	1			1			1		1	1	2	2	2	1	1	1		1	1	2					18	unclassifiable
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78	92	3,796	total	

Workers age of fatal accidents in road cargo transportation service in 1999-2021

Age	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Age
19 years old or less	3			1	1	4	2	1				1	2						1					16	19 years old or less
20-29	53	56	40	33	29	30	31	20	20	10	9	10	9	7	12	5	6	5	9	5		1	7	407	20-29
30-39	59	63	55	50	53	62	61	47	41	25	24	26	56	21	11	15	15	10	9	6	8	11	7	735	30-39
40-49	61	67	51	61	58	48	48	38	45	46	35	40	72	36	36	47	25	23	43	28	29	12	14	963	40-49
50-59	70	58	66	62	73	55	71	57	52	44	28	36	81	36	23	33	47	35	46	25	37	23	36	1,094	50-59
60 years old or more	13	18	21	17	21	34	25	24	28	17	20	32	51	30	24	27	25	20	22	32	21	31	28	581	60 years old or more
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78	92	3,796	total

Workers' number of workplace of fatal accidents in road cargo transportation service in 1999-2021

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	total	Workers scale
9 workers or less	41	38	42	37	38	40	49	39	40	24	18	25	49	29	14	16	23	20	23	21	18	15	19	678	9 workers or less
10-29	108	106	98	99	102	90	90	64	69	52	46	59	113	50	37	60	53	32	53	38	36	31	37	1,523	10-29
30-49	62	59	49	45	46	56	47	41	37	28	23	23	56	28	35	21	23	21	27	19	17	16	18	797	30-49
50-99	29	37	30	28	32	31	33	24	27	25	15	22	37	18	16	21	8	17	15	16	17	10	9	517	50-99
100-299	19	20	14	15	17	15	18	17	13	12	13	13	14	4	4	7	10	3	10	2	7	6	8	261	100-299
300 workers or more		2				1	1	2		1	1	3	2	1		2	1		2				1	20	300 workers or more
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78	92	3,796	total

Month of fatal accidents in road cargo transportation service in 1999-2021

Month	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Month
January	20	20	15	18	20	14	12	10	13	8	12	15	8	10	9	14	8	7	15	4	8	7	13	280	January
February	20	20	21	14	21	15	14	13	16	11	10	12	8	14	9	11	9	8	13	7	9	10	9	294	February
March	23	27	26	17	23	15	24	16	18	8	8	13	161	15	9	20	10	4	12	12	4	6	8	479	March

April	11	15	23	18	15	23	17	17	15	13	10	10	12	12	7	7	12	11	11	7	8	5	6	285	April
May	19	17	20	21	12	14	9	17	13	18	9	9	8	10	8	11	5	12	5	9	5	5	12	268	May
June	25	20	17	27	17	27	26	15	16	17	8	7	13	9	9	9	9	7	10	5	9	8	5	315	June
July	22	29	22	16	15	18	28	18	20	15	7	24	10	15	10	5	9	8	6	10	13	6	8	334	July
August	21	22	23	10	17	22	26	13	20	8	12	16	5	9	9	10	6	3	14	8	7	5	11	297	August
September	17	29	19	18	20	23	24	17	15	5	9	7	11	12	4	11	12	6	6	7	12	7	4	295	September
October	24	22	14	24	22	24	15	13	13	14	10	12	13	8	12	10	17	9	11	12	11	3	6	319	October
November	27	21	15	18	31	16	12	17	10	8	9	10	10	7	12	9	12	8	8	9	5	6	7	287	November
December	30	20	18	23	22	22	31	21	17	17	12	10	12	9	8	10	9	10	19	6	4	10	3	343	December
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78	92	3,796	total

Prefecture of fatal accidents in road cargo transportation service in 1999-2021

Prefecture	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	total	Prefecture
Hokkaido	13	20	16	19	15	23	15	10	14	12	6	15	14	10	7	6	10	13	10	11	6	4	8	277	Hokkaido
Aomori	6	2	2	2	7	1	2		1	3	3	3	3	2	1		1	2	4	1	1	1		48	Aomori
Iwate	6	3	3	5		3	8	3	6	2		1	26		2	4	3	1	3	1	1		1	82	Iwate
Miyagi	6	11	8	1	7	7	10	2	7	2	3	6	115	1	1	5	4		2	4	2	2	3	209	Miyagi
Akita	2	2	2			1	2	2	2			1	2	1	1						1			19	Akita
Yamagata	1	4	2	4	5	3	3	1	2	2	2	1		1		4	1	1						37	Yamagata
Fukushima	5	7	6	8	3	3	1	6	7	7	4	3	11	3	4	6	2		1	1		4		92	Fukushima
Ibaraki	3	5	5	5	6	9	9	3	5	3	3	2	5	7	4	6	6	1	3	4	2	1	1	98	Ibaraki
Tochigi	7	4	6	3	10	4	12	3	5		1	2	3	4	2	4	1	2	5	3			6	87	Tochigi
Gunma	3	6	3	3	5	8	6	8	7	4	3	2	2	3		3		2	3	1	5	2	1	80	Gunma
Saitama	11	16	16	6	7	6	8	2	7	2	8	8	8	6	5	5	5	5	6	2	6		9	154	Saitama
Chiba	5	7	8	10	15	5	9	4	7	4	3	6	3	8	9	4	2	5	5	3	6	3	2	133	Chiba
Tokyo	8	5	7	6	8	9	7	11	7	7	3	5	4	8	2	8	3	3	7	6	4	5	4	137	Tokyo
Kanagawa	8	10	6	8	10	9	9	8	7	4	4	6	4	4	3	3	4	2	5	2	2	4	2	124	Kanagawa

Nagasaki	2		5		1	4	2	2	2	4	1	1	1	1	1		1	2	2	1	1			34	Nagasaki
Kumamoto	3	2	1	3	5	4	4	1	2	7	1	2	1	4	3		1		2	1	2			49	Kumamoto
Oita	2	1	2	5		4	2	2	1	1	1	1	1							1	2	3		29	Oita
Miyazaki	1	3	4	2	4		3	1	1			3		3			1	1	3	2		3	3	38	Miyazaki
Kagoshima	4	5	1	8	3	1	1	3	4	3	1	3	3	2		2	2	2	2		1	2	1	54	Kagoshima
Okinawa	1	1																						2	Okinawa
total	259	262	233	224	235	233	238	187	186	142	116	145	271	130	106	127	118	93	130	96	95	78	92	3,796	total

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

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