

substance	5	2	8	11	5	19	12	21	13	8	4	5	8	5	7	7	12	6	11	5	8	8	10	13	213
electric shock	3	3	8	2	1	1	2	3	2	2	1	3		1		2	1		2	1	1	1	2		42
explosion	3	3	2	3	3	4	3	1	1	8	2			2	1	1		4	1		3	1	1		47
burst	2	2	1	2	1	2	3		2	1	1		1		1	2	1					1	1	3	27
fire	5	3	1	2	1		5	3		2	3		3		1		2	2	1	2	3	2			41
traffic accident (public road)	26	22	20	15	23	14	12	20	30	17	18	18	11	9	14	7	11	17	10	22	11	19	9	5	380
traffic accident (others)		1	2		1	1	1	1		2							2	1		4			2		18
reaction to motion/improper motion	86	97	125	110	127	128	197	209	215	206	120	152	137	145	139	137	142	141	162	191	208	148	187	226	3,735
others	10	40	6	3	7	13	10	9	25	8	10	5	8	8	9	6	9	7	9	8	11	21	221	12	475
unclassifiable	5	2	1	4	2	3	3	4	10	1	2			1	1	3	2		3	3		1	1	9	61
total	1,464	1,578	1,534	1,416	1,630	1,715	1,837	1,833	1,841	1,607	973	1,119	1,145	1,188	1,103	1,106	1,097	1,069	1,177	1,320	1,180	976	1,368	1,224	32,500

Causal agents (large) of fatal and non-fatal accidents in auto mobile 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	588	638	577	534	584	600	623	591	618	489	290	332	364	364	336	309	260	260	327	294	270	227	254	222	9,951
crane, conveying machine	190	190	203	196	239	245	218	259	245	227	142	157	147	127	127	137	148	136	146	180	143	135	159	120	4,216
other equipment	223	255	272	251	303	334	355	323	321	322	190	176	216	241	219	223	220	217	225	259	237	202	232	278	6,094

temporary buildings, establishments	135	162	141	144	176	175	212	214	206	197	105	144	151	163	141	152	193	189	175	221	167	156	205	233	4,157
substance, material	179	167	190	168	181	188	226	234	209	180	113	122	119	123	123	129	130	119	132	123	144	95	126	137	3,657
load	60	64	73	61	68	90	95	101	97	99	56	59	58	47	56	50	47	57	55	71	75	48	59	68	1,614
environment	7	9	14	12	12	8	16	10	10	7	4	28	17	29	20	19	11	19	24	63	16	24	13	30	422
others	82	93	64	50	67	75	92	101	135	86	73	101	73	94	81	87	88	72	93	109	128	89	320	136	2,389
total	1,464	1,578	1,534	1,416	1,630	1,715	1,837	1,833	1,841	1,607	973	1,119	1,145	1,188	1,103	1,106	1,097	1,069	1,177	1,320	1,180	976	1,368	1,224	32,500

Causal agents (middle) of fatal and non-fatal accidents in auto mobile products in 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
engine		1	1	1		1		1						1	1					1					8
power transmission mechanism	11	11	9	13	14	12	20	12	6	15	4	11	6	4	5	10	6	5	7	7	5	7	5	4	209
woodworking machine	7	8	5	9	8	6	11	10	6	3	6	4	3	4	3	3	2	1	3	6	7	8	5	5	133
construction machine	1		1		3	3	2	2		2	3	2	1		1	1	1	1		4	1			1	30
metal manufacturing machine	414	430	414	350	387	394	420	387	396	322	185	201	239	251	220	210	166	164	210	173	167	143	158	132	6,533

general machine	155	188	147	161	172	184	170	179	210	147	92	114	115	104	106	85	85	89	107	103	90	69	86	80	3,038
mobile silviculture machine																									
crane	26	35	26	41	26	38	34	46	38	35	25	29	24	25	18	25	27	15	21	21	16	18	28	18	655
conveying machine	129	122	141	122	177	174	149	170	160	153	84	90	102	90	89	102	96	93	105	124	94	87	106	85	2,844
vehicle	35	33	36	33	36	33	35	43	47	39	33	38	21	12	20	10	25	28	20	35	33	30	25	17	717
pressure vessel		2		2	3	3	2		3	2	2		1	1	1				1				1	2	26
chemical facilities		1				3		2	1		1							1	1			1	2		13
welding equipment	53	56	59	55	46	60	61	49	44	45	21	25	23	23	40	24	29	23	24	25	25	17	20	24	871
kiln, caldron	5	9	7	7	13	13	6	6	9	11	3	3	4	5	7	5	7	5	3	2	6	6	8	5	155
electric equipment	2	2	6	1	2	5	3	2	3	4	1	3	3	3	2	6	1	3	2		1	4	2	7	68
human power machine, tools	62	72	66	76	94	90	115	102	112	119	61	43	85	81	62	68	60	77	71	88	84	62	70	97	1,917
tools	74	84	105	76	106	110	105	115	120	100	71	75	79	94	75	88	86	87	91	111	88	82	80	83	2,185
other equipments, facilities	27	29	29	34	39	50	63	47	29	41	30	27	21	34	32	32	37	21	32	33	33	30	49	60	859
temporary buildings, establishments	135	162	141	144	176	175	212	214	206	197	105	144	151	163	141	152	193	189	175	221	167	156	205	233	4,157
hazards, harmful substances	17	12	9	20	13	18	20	28	19	11	8	7	17	5	11	14	16	10	12	10	11	10	16	15	329
materials	162	155	181	148	168	170	206	206	190	169	105	115	102	118	112	115	114	109	120	113	133	85	110	122	3,328

chamfering machine, router, woodworking milling machine			1							1														2	
chain saw													1											1	
other woodworking machines				1			1				1	1	1		1	1	1	1		1				10	
leveling, transporting or loading machine			1		1						1													4	
excavating machine					1		1	1		1	1									1				6	
foundation work machine					1										1					1				3	
hardening machine												1				1								2	
demolition machine																				1				1	
vehicle for high lift work								1									1							3	
other construction machines										1	2	1			1					1				7	
lathe			39		43		36	43	40	26	19	27	19	28	19	19	17	15	16	16	12	20	22	9	485
drill press, milling machine			60		44		51	35	44	34	23	25	19	21	27	11	19	17	21	12	7	13	9	16	508
grinding machine, buffing machine			33		39		40	35	33	35	20	16	24	25	15	27	14	20	20	17	23	12	17	14	479

rough terrain hauler										1														1	
other powered conveying machines			15		20		27	20	16	14	12	13	12	6	7	4	10	17	17	12	9	12	11	11	265
cars, bus, motorcycle			35		35		35	40	46	35	32	35	21	12	19	10	24	27	20	35	32	30	23	16	562
railway vehicle										1															1
other vehicles			1		1			3	1	3	1	3			1		1	1			1		2	1	20
boiler																									
pressure vessel					1		1		2	1														1	6
other pressure vessels					2		1		1	1	2		1	1	1				1				1	1	13
chemical facilities								2	1		1						1	1				1	2		9
gas welding equipment			4		4		3	1	1	5		2	2		2				3	1	1		1		30
arc welding equipment			13		11		20	19	19	7	10	8	10	8	6	5	6	9	5	8	8	5	3	7	187
other welding equipment			42		31		38	29	24	33	11	15	11	15	32	19	23	14	19	14	16	11	17	16	430
kiln, caldron			6		13		5	6	7	10	2	3	4	4	7	4	6	4	3	2	5	5	8	5	109
industrial dryer							1		1	1						1	1				1	1			7
other kiln, caldron			1						1		1			1				1							5
transmission								1	3				2	1	2	1		2	1			1	1	5	20
electric power			4				1	1		1		2	1	1		3			1			2			17

facilities																									
other electrical equipment			2		2		2			3	1	1		1		2	1	1			1	1	1	2	21
human power cranes			2				1	2	1				2		1	2		2	1	3	7	9	17	23	73
human power hauling equipment			26		55		72	69	72	86	36	25	51	46	37	37	31	50	49	58	52	38	40	40	970
human power machine			3		2		2	1	2	2	2	3	5	4	1	1	3	2						2	35
hand tool			35		37		40	30	37	31	23	15	27	31	23	28	26	23	21	27	25	15	13	32	539
ladder			37		35		38	36	55	34	28	26	27	33	29	37	39	41	30	44	23	23	32	29	676
slinging tool			15		14		11	10	11	9	12	4	9	9	3	8	3	6	8	10	6	11	5	9	173
other tools			53		57		56	69	54	57	31	45	43	52	43	43	44	40	53	57	59	48	43	45	992
other equipment, facilities			29		39		63	47	29	41	30	27	21	34	32	32	37	21	32	33	33	30	49	60	719
scaffolding			3		2		4	3	2	3	1			1	2	4			2		1		1		29
timbering																									
stairs, landing stage			19		34		32	30	48	36	18	26	30	21	31	29	33	23	27	46	29	27	31	44	614
opening			2		6		3	5	7	1	1	5	3	4	1	4	4	2	2	7	2	5	2	2	68
roof, beam, haze, crossbeam, principal rafter			3		2		4	3			1	5	1	2	2	2		3	2	2	2		1	1	36
working platform, boot board			34		31		40	48	47	44	16	22	18	28	21	29	30	30	21	34	30	19	32	29	603

passage			48		69		80	77	65	80	47	55	68	75	57	63	89	107	96	86	77	81	104	116	1,540
building, establishment			23		20		33	31	24	17	10	18	14	19	12	13	23	12	18	14	13	15	21	23	373
other temporary buildings, establishments			9		12		16	17	13	16	11	13	17	13	15	8	14	12	7	32	13	9	13	18	278
explosive substance					2		1	1					2			1			1						8
inflammable substance			2		3		7	6	2	3	4	1	2	2	3	2	4	2	1	4	3	1	4	1	57
inflammable gas			1					1		1			3			1		1		1				2	11
harmful substance			5		3		6	15	7	5	4	4	5	2	5	5	7	4	8	3	4	5	7	5	109
radiation										1															1
other hazards, harmful substances			1		5		6	5	10	1		2	5	1	3	5	5	3	2	2	4	4	5	7	76
metal material			163		153		188	183	168	149	92	107	92	103	99	107	102	101	100	96	121	74	100	103	2,401
lumber, bamboo			6		5		6	6	6	6	2	1		3	1	1	2	2	2	2	3	3	3	2	62
stone, sand, substance			2		1			1	1		1		1	1		1	2							2	13
other materials			10		9		12	16	15	14	10	7	9	11	12	6	8	6	18	15	9	8	7	15	217
load			60		50		75	82	78	84	43	46	52	37	46	38	37	45	48	62	69	42	52	56	1,102
machine/equipment as load			13		18		20	19	19	15	13	13	6	10	10	12	10	12	7	9	6	6	7	12	237
natural ground,			1					1				1	1	1						7	1	1		1	15

June	152	144	146	113	146	155	168	170	160	133	68	103	101	108	92	100	106	104	103	120	104	73	117	110	2,896
July	155	135	133	142	157	166	146	143	188	168	85	117	116	136	100	102	108	88	93	144	127	71	124	109	3,053
August	119	130	121	110	128	142	152	155	157	130	69	125	97	104	109	91	70	82	110	110	75	84	113	94	2,677
September	137	135	139	137	168	170	188	184	151	146	97	92	117	101	90	106	104	93	114	105	113	84	99	103	2,973
October	113	160	154	141	151	165	148	147	178	133	111	94	105	88	109	99	98	92	101	120	109	83	84	106	2,889
November	120	128	114	125	113	136	156	144	143	99	102	76	98	81	89	77	72	88	97	106	85	83	121	98	2,551
December	116	138	106	120	132	132	157	124	120	76	63	86	99	78	78	73	76	76	93	104	83	110	117	97	2,454
total	1,464	1,578	1,534	1,416	1,630	1,715	1,837	1,833	1,841	1,607	973	1,119	1,145	1,188	1,103	1,106	1,097	1,069	1,177	1,320	1,180	976	1,368	1,224	32,500

Prefecture of fatal and non-fatal accidents in auto mobile 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	8	24	10		20		14	22	18	15	7	13	25	15	10	17	10	19	11	19	12	9	12	21	331
Aomori	2	2	2		2		4	3	1	2		3	3		1	1		1	1	2		1	4	3	38
Iwate	7	7	13		15		9	9	10	12	4	12	14	7	4	5	4	11	7	9	9	11	4	10	193
Miyagi	8	11	5		8		16	11	8	16	10	9	12	6	10	4	11	9	14	12	12	9	17	7	225
Akita	3	5	4		5		4	2	6	3	8	4	1	8	2	3	1	6	3	1	1		3	3	76
Yamagata	13	10	16		17		13	15	8	15	9	8	11	9	14	9	12	4	7	8	14	12	7	9	240
Fukushima	20	32	35		32		34	30	27	37	16	26	21	22	23	26	17	24	24	23	17	19	31	25	561
Ibaraki	15	12	28		20		33	24	27	22	15	18	14	20	15	18	22	22	21	27	29	19	30	25	476
Tochigi	45	41	41		48		59	47	42	46	26	33	44	40	47	50	45	50	40	48	29	44	30	33	928
Gunma	104	86	91		105		105	111	125	100	77	70	98	91	83	97	81	70	77	85	88	65	115	98	2,022
Saitama	73	93	91		94		106	109	109	87	45	58	62	48	50	48	49	51	54	61	67	42	78	53	1,528

Hiroshima	67	81	55		75		90	90	78	84	51	72	50	60	57	53	53	52	72	82	58	47	72	82	1,481
Yamaguchi	12	13	14		17		17	18	20	23	13	9	11	9	21	18	23	8	24	19	15	6	5	14	329
Tokushima	2	1			2		1			2	2	4	1	1	6	1		2	1	2	4	1	2	2	37
Kagawa	1	1	1		3			2	1			2	2		1					4	1				19
Ehime										1		2		2	1										6
Kochi	2		7		2		5	2		3					2	1	3	1	1		2				31
Fukuoka	33	30	24		46		41	43	55	36	24	24	30	32	26	35	35	56	59	57	50	35	37	33	841
Saga	3	4	3		6		8	9	8	6	3	7	3	11	4	3	3	4	7	7	8	6	3	4	120
Nagasaki			1		1		3			1	2						1		1	2	3	5	1		21
Kumamoto	9	11	12		28		27	20	22	16	13	18	12	7	11	5	25	13	16	10	6	8	23	18	330
Oita	4	7	7		8		10	21	17	21	12	26	17	21	12	10	17	13	14	11	18	20	20	24	330
Miyazaki	1						3	4	5	3		3	2	3	2	1	1	4	4	5	4	3	8	5	61
Kagoshima	4	4	5		1		4	4	3	1	2		1	2	1	3	1	1		2	2	2	2		45
Okinawa		1								2			1		1			1					1	1	8
total	1,464	1,578	1,534	1,416	1,630	1,715	1,837	1,833	1,841	1,607	973	1,119	1,145	1,188	1,103	1,106	1,097	1,069	1,177	1,320	1,180	976	1,368	1,224	32,500

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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traffic accident (public road)		2	2			2				1	1							1		2					11
traffic accident (others)																									
reaction to motion/improper motion																									
others						1	1	1		1		2	1	1			1	1	1		1			1	13
unclassifiable																									
total	7	8	10	7	13	16	8	8	9	21	5	8	9	10	8	13	5	6	5	14	6	5	5	4	210

Causal agents (large) of fatal accidents in auto mobile 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	3	3	3	5	3	6	3	1	3	6	2	4	1	2	5	6	2	2	3	3	1	1	1	1	70
crane, conveying machine	2	4	5	1	4	8	3	2	1	5	2		2	4	1	6	2	3		4	3	1	4	2	69
other equipment	1		1		2	1			1	3				1								2			12
temporary buildings, establishments					2			1											1	1					5
substance, material		1	1	1				2	1	4			1	1	1	1									14
load					1		1	1	2		1										1				7
environment					1					2		2	4	1	1					6		1			18
others	1					1	1	1	1	1		2	1	1			1	1	1		1			1	15
total	7	8	10	7	13	16	8	8	9	21	5	8	9	10	8	13	5	6	5	14	6	5	5	4	210

Causal agents (middle) of fatal accidents in auto mobile products in 1999-2022

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