

Fatal and non-fatal accidents in auto mobile servicing in Japan in 1999-2022

auto mobile servicing industry Code No.011701

Type of accidents in auto mobile servicing 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	127	159	143	117	138	126	142	130	125	124	118	119	118	118	107	111	113	122	107	110	130	128	117	112	2,961	
falling to same level	90	85	77	69	90	76	63	80	70	61	65	48	66	66	63	75	62	69	88	79	95	93	81	95	1,806	
crash	56	48	51	42	46	45	34	38	50	28	32	26	29	26	29	28	27	32	39	25	23	33	33	32	852	
struck by flying or falling object	133	133	119	124	87	100	93	81	91	80	68	55	65	70	63	45	57	45	54	56	41	46	50	33	1,789	
collapse	16	15	15	13	15	15	11	13	8	13	11	6	8	11	8	10	7	7	9	13	10	3	2	9	248	
crashed by	67	68	68	41	51	44	48	43	43	33	29	36	27	31	32	22	28	33	31	33	44	25	37	22	936	
caught in/between	237	207	209	206	161	177	179	164	136	134	130	131	132	122	104	124	95	109	104	102	103	118	88	89	3,361	
cut	82	72	55	58	62	42	57	51	35	31	31	38	36	31	31	34	23	20	30	27	28	21	29	19	943	
injury to the sole of the foot	3	2	1	1					2	1	1	1		1			1			1			1	2	18	
drown			1						1				21							1						24
contact to high/low-	44	29	39	31	26	30	24	27	27	10	29	19	15	15	13	12	15	17	16	15	15	17	12	11	508	

temperature																									
contact to harmful substance	3	6	4	3		2	3	5	5		2		3	1	8	2	2	4	5		4	1	1	2	66
electric shock	3	2			1	1			2			1			3		1	2						1	17
explosion	9	5	2	4	5	2	1	5	3	2	1	2	1	2	1	1			2	2	2	4		2	58
burst	12	7	3	4	7	9	9	5	4	9	7	6	3	6	5	4	9	3	2	4	2	2	4	5	131
fire	2	2	3	2	3	8	5	6	2	3		4	2	3	2	4	1	3		5	3		2	3	68
traffic accident (public road)	30	43	29	31	32	34	28	31	23	16	19	28	21	17	14	21	23	23	22	21	21	13	17	15	572
traffic accident (others)	1				1				1							1	1			2	1		1		9
reaction to motion/improper motion	102	88	90	72	78	62	63	86	77	77	67	64	81	68	69	56	55	61	81	54	60	78	72	62	1,723
others	4	3	3	2	3	5	2	4	4	2	6	2	14	4		1	5	4	3	4	1	4	9	3	92
unclassifiable	1	2	3	2		1	4	2	2	2	1	1	1	1	2		1	1			2				29
total	1,022	976	915	822	806	779	766	771	711	626	617	587	643	593	554	551	526	555	593	554	585	586	556	517	16,211

Causal agents (large) of fatal and non-fatal accidents in auto mobile servicing 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	121	112	100	107	91	98	101	96	82	88	74	71	73	62	48	54	52	49	60	50	47	60	45	51	1,792

construction machine	20	15	11	17	9	14	20	21	14	9	9	10	9	7	9	6	8	8	13	9	8	13	8	8	275
metal manufacturing machine	39	44	33	36	32	33	33	27	32	30	20	16	24	26	16	18	20	19	21	19	20	27	25	15	625
general machine	29	22	24	20	17	17	16	20	13	18	15	26	18	15	10	12	12	10	9	9	15	11	7	17	382
mobile silviculture machine																									
crane	43	42	37	31	20	22	22	21	24	19	19	27	17	16	17	15	15	17	13	16	13	19	16	8	509
conveying machine	143	158	157	135	147	134	133	131	124	89	83	87	99	84	86	103	79	111	96	93	102	97	89	98	2,658
vehicle	139	139	135	122	97	117	101	97	76	85	90	83	79	61	71	64	69	62	70	58	60	60	61	52	2,048
pressure vessel	5	2	5	4	3	4	2	1	3	1	3			1	1	2		1	3	1	1	1		1	45
chemical facilities																									
welding equipment	6	10	7	7	10	9	3	7	7	5	12	4	2	5	4	2	5	3	5	3	3	8	10		137
kiln, caldron	6		4	1						1								2	1				1		16
electric equipment	1	4	1		2	1	2		1	1	2	1	2	1				2	1	1	2			2	27
human power machine, tools	94	83	77	72	69	48	71	69	60	44	49	35	51	52	46	38	33	33	38	35	44	36	30	40	1,247
tools	77	87	72	74	98	66	77	87	80	75	68	71	69	74	73	67	58	71	61	71	94	72	89	68	1,799
other equipments,	26	22	18	25	22	26	23	18	18	20	20	24	17	23	19	11	19	18	14	12	22	16	15	8	456

facilities																										
temporary buildings, establishments	128	101	102	81	91	94	83	90	79	75	73	65	87	72	66	83	86	79	89	91	87	96	82	94	2,074	
hazards, harmful substances	22	23	20	23	16	18	17	24	12	9	8	13	13	10	15	14	9	14	10	12	10	7	3	6	328	
materials	96	94	81	80	61	59	63	53	60	45	53	42	34	53	42	37	35	29	47	46	36	38	42	31	1,257	
load	45	34	42	21	33	35	29	30	33	23	17	16	28	22	15	14	20	15	28	20	17	12	15	15	579	
natural environment	12	20	15	5	6	11	7	9	13	8	4	9	39	16	12	17	17	19	14	14	17	19	16	15	334	
other causal agent	18	15	14	6	11	10	9	11	5	5	9	6	6	7	7	5	12	5	9	4	4	10	12	3	203	
no causal agent	37	28	27	26	27	25	20	24	31	31	32	32	26	31	31	25	16	24	33	26	24	35	29	25	665	
unclassifiable	3	2	1	2	2	2	3	3	3	2	1	1	1	3	1		1	1	1	1	2		1		37	
total	1,022	976	915	822	806	779	766	771	711	626	617	587	643	593	554	551	526	555	593	554	585	586	556	517	16,211	

Causal agents (small) of fatal and non-fatal accidents in auto mobile servicing in 1999-2022

Causal (S) agents	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	total
engine			4		7		6	5	4	2	7	1	2		1	2	2	2	1	1					47
power transmission mechanism			23		21		20	20	15	25	21	16	15	12	10	11	9	8	12	10	1	6	3	7	265
circular sawing			4		4		4	3	2	3	2	1	4		2	4	1	1	2	1	2		1	4	45

machine																									
band sawing machine																									
wood planer machine				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	9
hollow chisel mortiser, wood borer																					1			1	
chamfering machine, router, woodworking milling machine																									
chain saw																				1	1	1		3	
other woodworking machines			1			1		1				1				1	1	1		1				8	
leveling, transporting or loading machine			4	4	4	3	4	6	3	3	3	3	2	3	1	2	4	3	2	4		2		60	
excavating machine			3	1	11	8	4	2	5	4	1	2	1	3	3	2	3	3		2	3			61	
foundation work machine								1								1								2	
hardening machine			1			1	2			1	1				1									7	
demolition machine							1													1			1	3	

vessels			5		3		1	1	2		2				2		1	2	1				1	21	
chemical facilities																									
gas welding equipment			5		8		1		4	3	7	3	2	2		2	3	2	2	2	1	3		50	
arc welding equipment			2		2		2	3	2	1	2	1		1	3		1	3	1	2	5	7		38	
other welding equipment								4	1	1	3			2	1		2						3	17	
kiln, caldron			4							1							1					1		7	
industrial dryer																	1	1						2	
other kiln, caldron																									
transmission					1						2		1					1		1				6	
electric power facilities							1					1											1	3	
other electrical equipment			1		1		1		1	1			1	1			2		1	1			1	12	
human power cranes			7		6		4	7	4	9	3	1	6	5		4	2	7	5	2	7	2	5	4	90
human power hauling equipment			1		6		2	6	3	3	3	5	5	4	1	4	3	2	2	3	6	4	3	6	72
human power machine			4		4		4	4	4	2	2	2		3	5	4	1	2	3	3	4	3	1	2	57

hand tool			65		53		61	52	49	30	41	27	40	40	40	26	27	22	28	27	27	27	21	28	731
ladder			55		61		47	55	53	48	49	59	51	59	51	49	44	52	49	53	65	57	63	51	1,071
slinging tool			5		5		4	3	3	4	4	3	2	1	4	2	2		2	1	4	3	3	1	56
other tools			12		32		26	29	24	23	15	9	16	14	18	16	12	19	10	17	25	12	23	16	368
other equipment, facilities			18		22		23	18	18	20	20	24	17	23	19	11	19	18	14	12	22	16	15	8	357
scaffolding			4		4		1	1	5	3	3	2	3	1	1	3		1		1	2	3			38
timbering																									
stairs, landing stage			10		12		13	9	15	11	6	3	6	4	8	8	11	7	8	13	8	19	12	5	188
opening			6		2		1	4	3		7	5	5	3	1	4	4	1	7	2	7	4	3	5	74
roof, beam, haze, crossbeam, principal rafter			4		1		1	3	4	2	3	2	5	2	2	1	1	1	3	2	4		4	2	47
working platform, boot board			18		20		16	18	5	12	10	12	17	12	8	15	17	9	13	13	13	9	8	8	253
passage			35		27		30	35	25	20	27	21	28	25	22	32	27	34	44	41	40	41	37	44	635
building, establishment			18		16		13	16	17	18	11	15	15	21	16	16	16	16	11	13	7	12	13	22	302
other temporary buildings, establishments			7		9		8	4	5	9	6	5	8	4	8	4	10	10	3	6	6	8	5	8	133
explosive substance					3		1														1				5

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	559	536	512	459	459	452	396	406	398	320	341	331	358	315	287	266	238	260	264	256	269	264	241	216	8,403
10-29	325	315	299	272	248	238	267	258	207	217	198	168	209	192	185	197	182	191	206	189	194	199	212	186	5,354
30-49	65	68	54	48	55	43	51	51	55	55	48	44	53	47	53	52	51	55	65	56	57	55	52	55	1,288
50-99	45	38	24	32	23	23	31	37	23	26	19	24	9	25	25	22	35	34	36	40	41	50	40	42	744
100-299	23	15	23	8	13	17	17	16	24	5	10	18	14	13	4	13	18	15	18	13	19	14	10	16	356
300 workers or more	5	4	3	3	8	6	4	3	4	3	1	2		1		1	2		4		5	4	1	2	66
total	1,022	976	915	822	806	779	766	771	711	626	617	587	643	593	554	551	526	555	593	554	585	586	556	517	16,211

Month of fatal and non-fatal accidents in auto mobile servicing 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	82	83	82	62	71	60	65	75	59	62	43	56	58	55	30	52	42	55	53	49	51	56	45	57	1,403
February	71	80	82	67	68	62	60	68	58	68	59	52	46	74	58	49	53	52	54	48	41	41	40	48	1,399
March	91	92	86	69	69	85	68	63	69	50	58	55	89	46	56	50	47	50	39	46	54	53	48	47	1,480
April	80	78	67	73	76	67	66	59	53	49	48	45	52	50	42	51	41	49	58	37	45	43	40	39	1,308
May	92	79	93	65	56	76	59	90	55	49	52	34	52	45	39	50	50	65	48	49	46	42	42	38	1,366
June	87	93	75	78	71	66	85	55	61	54	59	57	56	57	46	41	46	47	54	50	42	67	65	44	1,456
July	91	82	76	74	82	65	59	58	46	47	38	60	57	42	48	47	44	38	55	51	51	50	56	36	1,353
August	82	77	65	84	64	75	63	52	76	44	47	50	49	42	44	41	37	36	59	38	55	36	53	42	1,311
September	88	85	75	60	53	51	72	49	61	63	52	44	55	39	40	31	30	46	37	48	47	47	41	45	1,259

October	86	80	83	61	66	52	55	70	63	58	63	55	52	43	52	50	48	37	58	43	46	66	47	41	1,375
November	95	79	66	76	63	56	70	66	52	45	51	45	43	57	53	47	36	34	35	48	58	37	41	41	1,294
December	77	68	65	53	67	64	44	66	58	37	47	34	34	43	46	42	52	46	43	47	49	48	38	39	1,207
total	1,022	976	915	822	806	779	766	771	711	626	617	587	643	593	554	551	526	555	593	554	585	586	556	517	16,211

Prefecture of fatal and non-fatal accidents in auto mobile servicing 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	77	68	68		76		52	71	66	47	46	52	46	52	52	46	49	64	62	55	58	65	51	41	1,264
Aomori	22	9	17		12		9	11	9	7	6	8	8	13	7	13	6	5	10	7	9	10	9	7	214
Iwate	13	19	14		17		16	10	8	9	6	7	22	10	9	12	4	4	13	9	4	12	4	4	226
Miyagi	21	18	22		19		14	13	14	13	15	12	29	13	16	15	15	10	17	15	14	14	19	11	349
Akita	12	18	13		4		15	12	5	14	5	7	7	9	9	7	5	7	6	7	6	7	7	7	189
Yamagata	12	7	13		16		12	15	10	2	9	11	13	12	10	9	3	5	10	6	3	10	8	9	205
Fukushima	30	22	18		14		10	13	24	15	10	20	7	13	14	9	7	12	9	12	14	12	10	14	309
Ibaraki	40	23	21		21		15	16	17	11	22	12	11	21	19	9	11	10	10	17	12	9	13	9	349
Tochigi	11	11	17		9		11	12	10	10	4	5	8	9	7	7	6	13	9	6	12	4	5	9	195
Gunma	18	15	14		10		13	10	13	7	7	11	12	8	9	10	10	11	9	6	7	12	10	9	231
Saitama	28	35	21		34		17	20	16	17	21	18	16	17	18	10	13	16	24	16	22	26	18	24	447
Chiba	28	47	25		24		21	37	30	21	21	23	33	17	27	23	24	27	21	28	23	20	24	21	565
Tokyo	54	53	48		39		38	34	33	17	24	23	21	18	23	20	14	18	15	13	22	16	21	19	583

Kanagawa	30	30	28		25		26	25	30	17	24	20	16	22	14	17	18	16	29	18	22	16	12	29	484
Niigata	43	24	31		22		26	25	16	20	25	15	21	18	21	20	17	26	22	20	12	17	20	19	480
Toyama	17	11	15		2		8	6	8	5	5	4	7	6	5	10	5	11	9	9	5	13	4	8	173
Ishikawa	7	13	12		9		7	6	8	13	2	7	12	10	8	5	10	9	12	9	5	12	6	6	188
Fukui	6	14	8		5		9	11	9	5	5	7	8	8	6	5	3	7	4	12	4	1	9	3	149
Yamanashi	7	6	5		4		5	8	7	4	5	8	4	4	4	4	2	4	3	1		1	2	3	91
Nagano	24	26	22		17		12	22	12	12	16	6	20	8	11	20	16	11	13	20	8	14	12	7	329
Gifu	25	24	22		16		20	22	15	22	20	12	12	11	10	13	14	13	10	14	11	15	16	14	351
Shizuoka	19	32	28		33		20	32	21	18	18	18	22	21	19	18	25	22	23	20	20	16	27	18	490
Aichi	57	47	39		36		28	34	39	34	29	29	21	21	29	17	24	29	30	25	35	27	32	28	690
Mie	20	16	21		13		21	18	9	12	12	13	12	10	11	11	7	14	12	4	15	8	4	7	270
Shiga	8	4	5		11		10	2	10	9	8	8	5	5	5	4	8	1	5	8	6	5	5	3	135
Kyoto	20	15	13		13		19	13	15	17	14	12	14	13	6	14	9	12	13	8	4	16	13	13	286
Osaka	50	41	50		38		41	52	28	36	33	28	37	42	24	23	23	21	28	30	23	27	25	17	717
Hyogo	30	39	40		41		36	31	27	18	30	19	26	27	15	15	26	16	20	21	16	19	16	19	547
Nara	10	10	10		12		8	9	10	8	11	9	13	2	6	4	8	3	6	6	10	10	3	6	174
Wakayama	18	16	10		17		12	12	9	4	7	9	3	12	8	6	10	6	1	6	1	6	6	3	182
Tottori	4	10	8		5		6	5	6	4	4	2	2	3	3	1	4	2	3	1	2	5	6	4	90
Shimane	8	13	7		6		7	6	6	2	3	2	2	6	2	6	4	5	2	4	4	2	2	5	104
Okayama	23	27	17		19		25	16	12	17	15	16	16	12	10	7	8	8	14	12	21	15	12	12	334
Hiroshima	27	24	23		20		23	13	17	14	16	9	11	17	10	12	14	14	18	11	12	11	15	12	343

Yamaguchi	14	12	10		8		11	9	12	8	6	10	8	8	8	3	10	5	9	3	4	8	2	4	172
Tokushima	2	7	10		9		12	8	7	9	5	6	5	4	1	7	4	6	7	7	6	5	3	5	135
Kagawa	14	11	7		7		12	6	7	11	6	5	4	5	1	7	6	2	6	5	7	6	6	7	148
Ehime	20	20	15		11		22	10	9	13	9	8	12	11	19	8	11	8	10	9	13	15	10	10	273
Kochi	17	8	16		8		5	7	13	3	3	6	8	1	4	9	4	3	2	4	9	5	5	3	143
Fukuoka	35	33	42		30		28	41	35	31	30	26	18	23	26	25	20	22	27	28	33	21	26	27	627
Saga	6	6	6		8		7	2	5	5	2	3	7	4	4	4	5	2	6	7	8	4	4	2	107
Nagasaki	15	14	11		6		8	9	13	6	9	11	14	8	11	13	6	9	6	6	10	11	9	8	213
Kumamoto	14	18	17		10		15	3	11	19	11	10	16	9	7	12	11	9	7	6	11	4	11	10	241
Oita	16	19	13		15		11	11	11	16	11	9	12	9	8	10	9	8	8	4	7	14	11	6	238
Miyazaki	14	11	15		17		6	4	6	6	7	10	6	7	4	10	2	9	4	5	10	6	5	3	167
Kagoshima	18	16	14		8		8	7	7	14	9	14	7	11	10	9	10	10	5	9	12	6	3	3	210
Okinawa	18	14	14		10		9	12	6	4	11	7	9	3	4	12	6	10	4	5	13	8	15	9	203
total	1,022	976	915	822	806	779	766	771	711	626	617	587	643	593	554	551	526	555	593	554	585	586	556	517	16,211

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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contact to harmful substance																									
electric shock		1																							1
explosion			1											1	1						1		1		5
burst														1											1
fire								1											1						2
traffic accident (public road)	5	2	1		2	2	1		2		1	1	1	2	1	1	1				1		1		25
traffic accident (others)																									
reaction to motion/improper motion																									
others													9							1					10
unclassifiable																									
total	7	10	5	5	6	9	8	3	7	8	4	9	32	4	5	7	3	3	5	7	4	5	4	6	166

Causal agents (large) of fatal accidents in auto mobile servicing 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						1			1	2		1					1		2	1	1		1		11
crane, conveying	7	6	4	4	6	6	6		5	3	4	6	2	3	3	5	2	2	3	3	3	4	3	3	93

machine																									
other equipment		3	1			2	1	1		3		1		1	1		1						1	16	
temporary buildings, establishments								1															1	2	
substance, material				1				1						1	1				1				1	6	
load		1																			1			2	
environment							1		1			1	30	1										34	
others																			2					2	
total	7	10	5	5	6	9	8	3	7	8	4	9	32	4	5	7	3	3	5	7	4	5	4	6	166

Causal agents (middle) of fatal accidents in auto mobile servicing 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																									
power transmission mechanism																									
woodworking machine						1																			1
construction machine									1	2		1							1	1			1		7
metal manufacturing machine																									
general machine																	1		1		1				3

railway vehicle																							
other vehicles			1				1																2
boiler																							
pressure vessel																							
other pressure vessels																							
chemical facilities																							
gas welding equipment			1																				1
arc welding equipment		1																					1
other welding equipment																							
kiln, caldron																							
industrial dryer																							
other kiln, caldron																							
transmission																							
electric power facilities																							
other electrical equipment																							
human power cranes																	1						1

abnormal environment																									
high/cold temperature environment												1													1
other environments														1											1
other causal agent																									
no causal agent																				1					1
unclassifiable																				1					1
total	7	10	5	5	6	9	8	3	7	8	4	9	32	4	5	7	3	3	5	7	4	5	4	6	166

Workers age of fatal accidents in auto mobile servicing 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																									
20-29	2	3	2	2	1	2	2		1	1	1	2	4			2	1		1	1				1	29
30-39	3	2	1	1	1	2	1	1	2	1	1	1	5		1	1			1		1		1		27
40-49	1	2	1	2		1	1		1	2		2	12	1		2		1	2	3	2	3	1	2	42
50-59		3	1		3	1	1	1	3	3	1	2	7		2	1	1		1	2	1		1		35
60 years old or more	1				1	3	3	1		1	1	2	4	3	2	1	1	2		1		2	1	3	33
total	7	10	5	5	6	9	8	3	7	8	4	9	32	4	5	7	3	3	5	7	4	5	4	6	166

Okayama		1																		1				2	
Hiroshima		1																						1	
Yamaguchi											1													1	
Tokushima		1								1									1					3	
Kagawa						1								1										2	
Ehime																									
Kochi																						1		1	
Fukuoka	1		1	1													1	1						5	
Saga		1																						1	
Nagasaki																	1							1	
Kumamoto			1																					1	
Oita					1					1														2	
Miyazaki		1							1			1												3	
Kagoshima		1								1				1										3	
Okinawa	2													1										3	
total	7	10	5	5	6	9	8	3	7	8	4	9	32	4	5	7	3	3	5	7	4	5	4	6	166

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

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