

Fatal and non-fatal accidents in auto mobile servicing in Japan in 1999-2021

auto mobile servicing industry Code No.011701

Type of accidents in auto mobile servicing 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	127	159	143	117	138	126	142	130	125	124	118	119	118	118	107	111	113	122	107	110	130	128	117	2,849	fall from height
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	1,711	falling to same level
crash	56	48	51	42	46	45	34	38	50	28	32	26	29	26	29	28	27	32	39	25	23	33	33	820	crash
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	1,756	struck by flying or falling object
collapse	16	15	15	13	15	15	11	13	8	13	11	6	8	11	8	10	7	7	9	13	10	3	2	239	collapse
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	914	crashed by
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	3,272	caught in/between
cut	82	72	55	58	62	42	57	51	35	31	31	38	36	31	31	34	23	20	30	27	28	21	29	924	cut
injury to the sole of the foot	3	2	1	1					2	1	1	1		1			1			1			1	16	injury to the sole of the foot
drown			1						1				21							1				24	drown
contact to high/low-temperature	44	29	39	31	26	30	24	27	27	10	29	19	15	15	13	12	15	17	16	15	15	17	12	497	contact to high/low-temperature



machine	325	339	329	288	264	273	256	249	224	193	192	197	195	161	174	182	163	190	179	167	175	176	166	5,057	conveying machine
other equipment	215	208	184	183	204	154	178	182	169	147	154	135	141	156	143	120	115	130	123	123	166	133	145	3,608	other equipment
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	1,980	temporary buildings, establishments
substance, material	118	117	101	103	77	77	80	77	72	54	61	55	47	63	57	51	44	43	57	58	46	45	45	1,548	substance, material
load	45	34	42	21	33	35	29	30	33	23	17	16	28	22	15	14	20	15	28	20	17	12	15	564	load
environment	12	20	15	5	6	11	7	9	13	8	4	9	39	16	12	17	17	19	14	14	17	19	16	319	environment
others	58	45	42	34	40	37	32	38	39	38	42	39	33	41	39	30	29	30	43	31	30	45	42	877	others
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	15,694	total

Causal agents (middle) of fatal and non-fatal accidents in auto mobile servicing 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	6	7	4	5	7	6	6	5	4	2	7	1	2		1	2	2	2	1	1				71	engine	
power transmission mechanism	21	18	23	22	21	21	20	20	15	25	21	16	15	12	10	11	9	8	12	10	1	6	3	340	power transmission mechanism	
woodworking machine	6	6	5	7	5	7	6	3	4	4	2	2	5	2	2	5	1	2	4	2	3	3	2	88	woodworking machine	
																										construction

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	267	machine	
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	610	metal manufacturing machine	
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	365	general machine	
mobile silviculture machine																										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	501	crane	
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	2,560	conveying machine	
vehicle	139	139	135	122	97	117	101	97	76	85	90	83	79	61	71	64	69	62	70	58	60	60	61	1,996	vehicle	
pressure vessel	5	2	5	4	3	4	2	1	3	1	3			1	1	2		1	3	1	1	1		44	pressure vessel	
chemical facilities																										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	welding equipment	
kiln, caldron	6		4	1						1								2	1				1	16	kiln, caldron	
electric equipment	1	4	1		2	1	2		1	1	2	1	2	1				2	1	1	2			25	electric equipment	
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	1,207	human power machine, tools	
tools	77	87	72	74	98	66	77	87	80	75	68	71	69	74	73	67	58	71	61	71	94	72	89	1,731	tools	



power transmission mechanism			23		21		20	20	15	25	21	16	15	12	10	11	9	8	12	10	1	6	3	258	power transmission mechanism
circular sawing machine			4		4		4	3	2	3	2	1	4		2	4	1	1	2	1	2		1	41	circular sawing machine
band sawing machine																									band sawing machine
wood planer machine					1		1		1	1		1	1	1		1			1					9	wood planer machine
hollow chisel mortiser, wood borer																						1		1	hollow chisel mortiser, wood borer
chamfering machine, router, woodworking milling machine																									chamfering machine, router, woodworking milling machine
chain saw																					1	1	1	3	chain saw
other woodworking machines			1			1		1						1			1	1	1		1			8	other woodworking machines
leveling, transporting or loading machine			4		4		4	3	4	6	3	3	3	3	2	3	1	2	4	3	2	4		58	leveling, transporting or loading machine
excavating machine			3		1		11	8	4	2	5	4	1	2	1	3	3	2	3	3		2	3	61	excavating machine
foundation work machine									1								1							2	foundation work machine
hardening machine			1			1		2				1	1				1							7	hardening machine

demolition machine							1													1			2	demolition machine	
vehicle for high lift work			1				2	3		1	1	1	1	3			1	3	1	1	6	1	26	vehicle for high lift work	
other construction machines			2		4		4	7		1		1	3	1	3		3	2	3	2	4	1	4	45	other construction machines
lathe			1		1					1	1	1	1	2		1	1		2		1	2		15	lathe
drill press, milling machine			4		5		5	6	6	5	5	4	5	3	2	3	3	2	4	2	1	3	5	73	drill press, milling machine
grinding machine, buffing machine			13		9		13	13	15	11	6	6	11	13	7	6	11	6	3	5	11	10	14	183	grinding machine, buffing machine
power press			2		1		3	2	4	1	2	1	1	3	1	3	3	3	3	4	2	4	3	46	power press
forging pressure hammer					1					1													2	forging pressure hammer	
shearing machine			1		2		2	1			1			2	1	1		2	1		2		1	17	shearing machine
other metal manufacturing machines			12		13		10	5	7	11	5	4	6	3	5	4	2	6	8	8	3	8	2	122	other metal manufacturing machines
centrifugal machine												1										1		2	centrifugal machine
mixer, grinder			2																		2		1	5	mixer, grinder
roll machine (except printingroll machine)																						1		1	roll machine (except printingroll machine)
injection molding machine										1	1													2	injection molding machine







equipment			2		2		2	3	2	1	2	1		1	3			1	3	1	2	5	7	38	equipment
other welding equipment							4	1	1	3			2	1		2							3	17	other welding equipment
kiln, caldron			4							1							1						1	7	kiln, caldron
industrial dryer																	1	1						2	industrial dryer
other kiln, caldron																									other kiln, caldron
transmission					1						2		1						1		1			6	transmission
electric power facilities							1					1												2	electric power facilities
other electrical equipment			1		1		1		1	1			1	1				2		1	1			11	other electrical equipment
human power cranes			7		6		4	7	4	9	3	1	6	5		4	2	7	5	2	7	2	5	86	human power cranes
human power hauling equipment			1		6		2	6	3	3	3	5	5	4	1	4	3	2	2	3	6	4	3	66	human power hauling equipment
human power machine			4		4		4	4	4	2	2	2		3	5	4	1	2	3	3	4	3	1	55	human power machine
hand tool			65		53		61	52	49	30	41	27	40	40	40	26	27	22	28	27	27	27	21	703	hand tool
ladder			55		61		47	55	53	48	49	59	51	59	51	49	44	52	49	53	65	57	63	1,020	ladder
slinging tool			5		5		4	3	3	4	4	3	2	1	4	2	2		2	1	4	3	3	55	slinging tool
other tools			12		32		26	29	24	23	15	9	16	14	18	16	12	19	10	17	25	12	23	352	other tools
other equipment, facilities			18		22		23	18	18	20	20	24	17	23	19	11	19	18	14	12	22	16	15	349	other equipment, facilities
scaffolding			4		4		1	1	5	3	3	2	3	1	1	3		1		1	2	3		38	scaffolding



stone, sand, substance								1	1						1	1			1	1	1	1		8	stone, sand, substance
other materials			10		14		10	9	16	8	14	10	7	6	7	11	9	8	9	8	4	9	8	177	other materials
load			27		21		23	21	22	17	11	10	19	14	10	10	13	10	24	16	12	9	11	300	load
machine/equipment as load			15		12		6	9	11	6	6	6	9	8	5	4	7	5	4	4	5	3	4	129	machine/equipment as load
natural ground, rock			1		1		2		1	2	1			3	2		2	2	1		1	1	1	21	natural ground, rock
standing tree							1																	1	standing tree
water									2	1			31	1									1	36	water
abnormal environment									1															1	abnormal environment
high/cold temperature environment			5				1		1	1	2	1	2	2			3	2	2	4	7	5	3	41	high/cold temperature environment
other environments			9		5		3	9	8	4	1	8	6	10	10	17	12	15	11	10	9	12	12	171	other environments
other causal agent			14		11		9	11	5	5	9	6	6	7	7	5	12	5	9	4	4	10	12	151	other causal agent
no causal agent			27		27		20	24	31	31	32	32	26	31	31	25	16	24	33	26	24	35	29	524	no causal agent
unclassifiable			1		2		3	3	3	2	1	1	1	3	1		1	1	1	1	2		1	28	unclassifiable
total			915		806		766	771	711	626	617	587	643	593	554	551	526	555	593	554	585	586	556	12,095	total

Workers age of fatal and non-fatal accidents in auto mobile servicing 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
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19 years old or less	28	25	14	20	12	9	10	7	8	5	6	6	8	17	9	8	8	6	13	11	7	5	13	255	19 years old or less
20-29	308	293	282	220	207	206	195	180	162	116	120	103	103	92	85	82	78	73	71	67	74	68	83	3,268	20-29
30-39	175	183	160	159	159	154	165	182	169	144	145	140	150	133	119	118	104	104	97	86	84	85	86	3,101	30-39
40-49	215	185	165	158	156	132	135	123	104	131	103	111	138	120	115	128	113	152	145	145	124	131	106	3,135	40-49
50-59	232	230	232	210	206	203	197	198	184	128	157	126	142	121	117	110	114	94	135	116	122	120	113	3,607	50-59
60 years old or more	64	60	62	55	66	75	64	81	84	102	86	101	102	110	109	105	109	126	132	129	174	177	155	2,328	60 years old or more
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	15,694	total

Workers' number of workplace of fatal and non-fatal accidents in auto mobile servicing 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	559	536	512	459	459	452	396	406	398	320	341	331	358	315	287	266	238	260	264	256	269	264	241	8,187	9 workers or less
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	5,168	10-29
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	1,233	30-49
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	702	50-99
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	340	100-299
300 workers or more	5	4	3	3	8	6	4	3	4	3	1	2		1		1	2		4		5	4	1	64	300 workers or more
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	15,694	total

Month of fatal and non-fatal accidents in auto mobile servicing 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	82	83	82	62	71	60	65	75	59	62	43	56	58	55	30	52	42	55	53	49	51	56	45	1,346	January
February	71	80	82	67	68	62	60	68	58	68	59	52	46	74	58	49	53	52	54	48	41	41	40	1,351	February
March	91	92	86	69	69	85	68	63	69	50	58	55	89	46	56	50	47	50	39	46	54	53	48	1,433	March
April	80	78	67	73	76	67	66	59	53	49	48	45	52	50	42	51	41	49	58	37	45	43	40	1,269	April
May	92	79	93	65	56	76	59	90	55	49	52	34	52	45	39	50	50	65	48	49	46	42	42	1,328	May
June	87	93	75	78	71	66	85	55	61	54	59	57	56	57	46	41	46	47	54	50	42	67	65	1,412	June
July	91	82	76	74	82	65	59	58	46	47	38	60	57	42	48	47	44	38	55	51	51	50	56	1,317	July
August	82	77	65	84	64	75	63	52	76	44	47	50	49	42	44	41	37	36	59	38	55	36	53	1,269	August
September	88	85	75	60	53	51	72	49	61	63	52	44	55	39	40	31	30	46	37	48	47	47	41	1,214	September
October	86	80	83	61	66	52	55	70	63	58	63	55	52	43	52	50	48	37	58	43	46	66	47	1,334	October
November	95	79	66	76	63	56	70	66	52	45	51	45	43	57	53	47	36	34	35	48	58	37	41	1,253	November
December	77	68	65	53	67	64	44	66	58	37	47	34	34	43	46	42	52	46	43	47	49	48	38	1,168	December
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	15,694	total

Prefecture of fatal and non-fatal accidents in auto mobile servicing 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	77	68	68		76		52	71	66	47	46	52	46	52	52	46	49	64	62	55	58	65	51	1,223	Hokkaido
Aomori	22	9	17		12		9	11	9	7	6	8	8	13	7	13	6	5	10	7	9	10	9	207	Aomori
Iwate	13	19	14		17		16	10	8	9	6	7	22	10	9	12	4	4	13	9	4	12	4	222	Iwate
Miyagi	21	18	22		19		14	13	14	13	15	12	29	13	16	15	15	10	17	15	14	14	19	338	Miyagi
Akita	12	18	13		4		15	12	5	14	5	7	7	9	9	7	5	7	6	7	6	7	7	182	Akita

Yamagata	12	7	13		16		12	15	10	2	9	11	13	12	10	9	3	5	10	6	3	10	8	196	Yamagata
Fukushima	30	22	18		14		10	13	24	15	10	20	7	13	14	9	7	12	9	12	14	12	10	295	Fukushima
Ibaraki	40	23	21		21		15	16	17	11	22	12	11	21	19	9	11	10	10	17	12	9	13	340	Ibaraki
Tochigi	11	11	17		9		11	12	10	10	4	5	8	9	7	7	6	13	9	6	12	4	5	186	Tochigi
Gunma	18	15	14		10		13	10	13	7	7	11	12	8	9	10	10	11	9	6	7	12	10	222	Gunma
Saitama	28	35	21		34		17	20	16	17	21	18	16	17	18	10	13	16	24	16	22	26	18	423	Saitama
Chiba	28	47	25		24		21	37	30	21	21	23	33	17	27	23	24	27	21	28	23	20	24	544	Chiba
Tokyo	54	53	48		39		38	34	33	17	24	23	21	18	23	20	14	18	15	13	22	16	21	564	Tokyo
Kanagawa	30	30	28		25		26	25	30	17	24	20	16	22	14	17	18	16	29	18	22	16	12	455	Kanagawa
Niigata	43	24	31		22		26	25	16	20	25	15	21	18	21	20	17	26	22	20	12	17	20	461	Niigata
Toyama	17	11	15		2		8	6	8	5	5	4	7	6	5	10	5	11	9	9	5	13	4	165	Toyama
Ishikawa	7	13	12		9		7	6	8	13	2	7	12	10	8	5	10	9	12	9	5	12	6	182	Ishikawa
Fukui	6	14	8		5		9	11	9	5	5	7	8	8	6	5	3	7	4	12	4	1	9	146	Fukui
Yamanashi	7	6	5		4		5	8	7	4	5	8	4	4	4	4	2	4	3	1		1	2	88	Yamanashi
Nagano	24	26	22		17		12	22	12	12	16	6	20	8	11	20	16	11	13	20	8	14	12	322	Nagano
Gifu	25	24	22		16		20	22	15	22	20	12	12	11	10	13	14	13	10	14	11	15	16	337	Gifu
Shizuoka	19	32	28		33		20	32	21	18	18	18	22	21	19	18	25	22	23	20	20	16	27	472	Shizuoka
Aichi	57	47	39		36		28	34	39	34	29	29	21	21	29	17	24	29	30	25	35	27	32	662	Aichi
Mie	20	16	21		13		21	18	9	12	12	13	12	10	11	11	7	14	12	4	15	8	4	263	Mie
Shiga	8	4	5		11		10	2	10	9	8	8	5	5	5	4	8	1	5	8	6	5	5	132	Shiga
Kyoto	20	15	13		13		19	13	15	17	14	12	14	13	6	14	9	12	13	8	4	16	13	273	Kyoto
Osaka	50	41	50		38		41	52	28	36	33	28	37	42	24	23	23	21	28	30	23	27	25	700	Osaka
Hyogo	30	39	40		41		36	31	27	18	30	19	26	27	15	15	26	16	20	21	16	19	16	528	Hyogo

Nara	10	10	10		12		8	9	10	8	11	9	13	2	6	4	8	3	6	6	10	10	3	168	Nara
Wakayama	18	16	10		17		12	12	9	4	7	9	3	12	8	6	10	6	1	6	1	6	6	179	Wakayama
Tottori	4	10	8		5		6	5	6	4	4	2	2	3	3	1	4	2	3	1	2	5	6	86	Tottori
Shimane	8	13	7		6		7	6	6	2	3	2	2	6	2	6	4	5	2	4	4	2	2	99	Shimane
Okayama	23	27	17		19		25	16	12	17	15	16	16	12	10	7	8	8	14	12	21	15	12	322	Okayama
Hiroshima	27	24	23		20		23	13	17	14	16	9	11	17	10	12	14	14	18	11	12	11	15	331	Hiroshima
Yamaguchi	14	12	10		8		11	9	12	8	6	10	8	8	8	3	10	5	9	3	4	8	2	168	Yamaguchi
Tokushima	2	7	10		9		12	8	7	9	5	6	5	4	1	7	4	6	7	7	6	5	3	130	Tokushima
Kagawa	14	11	7		7		12	6	7	11	6	5	4	5	1	7	6	2	6	5	7	6	6	141	Kagawa
Ehime	20	20	15		11		22	10	9	13	9	8	12	11	19	8	11	8	10	9	13	15	10	263	Ehime
Kochi	17	8	16		8		5	7	13	3	3	6	8	1	4	9	4	3	2	4	9	5	5	140	Kochi
Fukuoka	35	33	42		30		28	41	35	31	30	26	18	23	26	25	20	22	27	28	33	21	26	600	Fukuoka
Saga	6	6	6		8		7	2	5	5	2	3	7	4	4	4	5	2	6	7	8	4	4	105	Saga
Nagasaki	15	14	11		6		8	9	13	6	9	11	14	8	11	13	6	9	6	6	10	11	9	205	Nagasaki
Kumamoto	14	18	17		10		15	3	11	19	11	10	16	9	7	12	11	9	7	6	11	4	11	231	Kumamoto
Oita	16	19	13		15		11	11	11	16	11	9	12	9	8	10	9	8	8	4	7	14	11	232	Oita
Miyazaki	14	11	15		17		6	4	6	6	7	10	6	7	4	10	2	9	4	5	10	6	5	164	Miyazaki
Kagoshima	18	16	14		8		8	7	7	14	9	14	7	11	10	9	10	10	5	9	12	6	3	207	Kagoshima
Okinawa	18	14	14		10		9	12	6	4	11	7	9	3	4	12	6	10	4	5	13	8	15	194	Okinawa
total	1,022	976	915		806		766	771	711	626	617	587	643	593	554	551	526	555	593	554	585	586	556	14,093	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)

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 Fatal accidents in auto mobile servicing in Japan in 1999-2021

auto mobile servicing industry Code No.011701

Type of fatal accidents in auto mobile servicing 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		1			1		1	1	1	2						1								8	fall from height	
falling to same level																										falling to same level
crash							1		1														1	3	crash	
struck by flying or falling object		2	1	1	1	1	1		1	1	1									1					11	struck by flying or falling object
collapse		1								1						1			1						4	collapse
crashed by	2	1		1			1					2				1			1	1		2			12	crashed by
caught in/between		2	1	3	2	5	3		1	4	2	5	1	2	2	2	2	3	4	1	3	2	2		52	caught in/between
cut						1																			1	cut
injury to the sole of the foot								1																	1	injury to the sole of the foot



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						1			1	2		1					1		2	1	1		1	11	machine
crane, conveying machine	7	6	4	4	6	6	6		5	3	4	6	2	3	3	5	2	2	3	3	3	4	3	90	crane, conveying machine
other equipment		3	1			2	1	1		3		1			1	1		1						15	other equipment
temporary buildings, establishments									1															1	temporary buildings, establishments
substance, material				1				1							1	1					1			5	substance, material
load		1																				1		2	load
environment							1		1			1	30	1										34	environment
others																				2				2	others
total	7	10	5	5	6	9	8	3	7	8	4	9	32	4	5	7	3	3	5	7	4	5	4	160	total

Causal agents (middle) of fatal accidents in auto mobile servicing 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																									power transmission



																								equipment	
human power machine, tools		1							1								1						3	human power machine, tools	
tools		1			2	1	1		2		1			1	1								10	tools	
other equipments, facilities																								other equipments, facilities	
temporary buildings, establishments								1															1	temporary buildings, establishments	
hazards, harmful substances								1						1	1					1			4	hazards, harmful substances	
materials			1																				1	materials	
load		1																			1		2	load	
natural environment							1		1			1	30	1									34	natural environment	
other causal agent																								other causal agent	
no causal agent																						1	1	no causal agent	
unclassifiable																					1		1	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	160	total

Causal agents (small) of fatal accidents in auto mobile servicing in 1999-2021









lumberyard equipment, logging cableway																									lumberyard equipment, logging cableway	
simple skyline yarding equipment																									simple skyline yarding equipment	
other powered crane		1			1																			2	other powered crane	
truck	3	2	2	2	2	3	1		2	3	1	4	1	2	1	4	1	2	2	1	2	2	2	45	truck	
forklift					1				1				1		1					1			1	6	forklift	
railway equipment																									railway equipment	
conveyor																									conveyor	
loader																									loader	
straddle carrier																									straddle carrier	
rough terrain hauler																									rough terrain hauler	
other powered conveying machines																									other powered conveying machines	
cars, bus, motorcycle	4	2	1	1	1	3	4		1		3	1		1	1	1							1	1	26	cars, bus, motorcycle
railway vehicle																										railway vehicle
other vehicles			1				1																		2	other vehicles
boiler																										boiler
pressure vessel																										pressure vessel
other pressure vessels																										other pressure vessels





other hazards, harmful substances																									other hazards, harmful substances
metal material																									metal material
lumber, bamboo																									lumber, bamboo
stone, sand, substance																									stone, sand, substance
other materials				1																				1	other materials
load																							1	1	load
machine/equipment as load		1																						1	machine/equipment as load
natural ground, rock																									natural ground, rock
standing tree							1																	1	standing tree
water									1				30											31	water
abnormal environment																									abnormal environment
high/cold temperature environment																								1	high/cold temperature environment
other environments															1									1	other environments
other causal agent																									other causal agent
no causal agent																							1	1	no causal agent
unclassifiable																							1	1	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	160	total

Workers age of fatal accidents in auto mobile servicing 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																									19 years old or less
20-29	2	3	2	2	1	2	2		1	1	1	2	4			2	1		1	1				28	20-29
30-39	3	2	1	1	1	2	1	1	2	1	1	1	5		1	1			1		1		1	27	30-39
40-49	1	2	1	2		1	1		1	2		2	12	1		2		1	2	3	2	3	1	40	40-49
50-59		3	1		3	1	1	1	3	3	1	2	7		2	1	1		1	2	1		1	35	50-59
60 years old or more	1				1	3	3	1		1	1	2	4	3	2	1	1	2		1		2	1	30	60 years old or more
total	7	10	5	5	6	9	8	3	7	8	4	9	32	4	5	7	3	3	5	7	4	5	4	160	total

Workers' number of workplace of fatal accidents in auto mobile servicing 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	5	6	1	2	4	8	5	2	4	4	3	5	23	3	2	3	2		3	2	2	2	2	93	9 workers or less
10-29	1	4	4	2	1		3	1	2	4		2	9		3	3		1	1	2	2	1	2	48	10-29
30-49				1	1	1					1	2		1		1	2	1	3		1			15	30-49
50-99	1															1						1		3	50-99
100-299									1															1	100-299
300 workers or more																									300 workers or more
total	7	10	5	5	6	9	8	3	7	8	4	9	32	4	5	7	3	3	5	7	4	5	4	160	total

Month of fatal accidents in auto mobile servicing 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		2	1					1		1		1							2	1	1			10	January
February	2					1		1		3	1			2	1	2				2			1	16	February
March			1			1	1					2	31			1			1	1	1	1		41	March
April		1	1			1	2		1													1		7	April
May				1	2	1					1		1							2		1	1	10	May
June	1	1	2	1		1	1		1					1	1	1					1			12	June
July	2	1								1						2	2			1			2	11	July
August	1	1					2	1	2	1		2			1				1					12	August
September	1	1			1		1				1	2									1	1		9	September
October		2		1	2				1	1		2				1		2	1			1		14	October
November						2			1	1	1			1	1		1	1						9	November
December		1		2	1	2	1		1						1									9	December
total	7	10	5	5	6	9	8	3	7	8	4	9	32	4	5	7	3	3	5	7	4	5	4	160	total

Prefecture of fatal accidents in auto mobile servicing 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			2			2				1		1						1	1	2				10	Hokkaido
Aomori						1				1				1		1								4	Aomori
Iwate									1			1	9	1					1					13	Iwate
Miyagi	1						1				1		21	1										25	Miyagi

Akita		1																			1	Akita								
Yamagata					1					1											1	3	Yamagata							
Fukushima		1			1				1	1													5	Fukushima						
Ibaraki	1								2												1		4	Ibaraki						
Tochigi					1				1															3	Tochigi					
Gunma																								1	Gunma					
Saitama					1	1			1												1		1	5	Saitama					
Chiba					1					1											1		1	5	Chiba					
Tokyo																						1		1	Tokyo					
Kanagawa								2																	2	Kanagawa				
Niigata																						1	1	2	1	5	Niigata			
Toyama																									1	1	Toyama			
Ishikawa																									1	1	Ishikawa			
Fukui					1																					2	Fukui			
Yamanashi																										1	Yamanashi			
Nagano								1																	1	1	2	1	6	Nagano
Gifu					1																						2	Gifu		
Shizuoka					1																						3	Shizuoka		
Aichi						1		1																		1		6	Aichi	
Mie								1	1																	1		4	Mie	
Shiga					1																						1	Shiga		
Kyoto	1					1																				1	3	Kyoto		
Osaka						1	2	1																		1	1	1	7	Osaka

Hyogo	1		1			1	1			1														6	Hyogo						
Nara																			1						1	Nara					
Wakayama																										Wakayama					
Tottori																										Tottori					
Shimane																										Shimane					
Okayama		1																						1	2	Okayama					
Hiroshima		1																								1	Hiroshima				
Yamaguchi												1														1	Yamaguchi				
Tokushima		1										1													1	3	Tokushima				
Kagawa							1										1										2	Kagawa			
Ehime																												Ehime			
Kochi																										1	1	Kochi			
Fukuoka	1		1	1																						1	1	5	Fukuoka		
Saga		1																										1	Saga		
Nagasaki																												1	Nagasaki		
Kumamoto			1																									1	Kumamoto		
Oita					1							1																	2	Oita	
Miyazaki		1																											3	Miyazaki	
Kagoshima		1																											1	3	Kagoshima
Okinawa	2																												1	3	Okinawa
total	7	10	5	5	6	9	8	3	7	8	4	9	32	4	5	7	3	3	5	7	4	5	4	160	total						

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



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