

Fatal and non-fatal accidents in fuel retail in Japan in 1999-2021

fuel retail industry Code No.080204

Type of accidents in fuel retail in 1999-2021

[illegible]

contact to harmful substance	3	6	4	2		4	3	2	2	1		1	4	2		1		1	1	3		2	2	44	contact to harmful substance
electric shock												1	1		1		1	1						5	electric shock
explosion	1	2	1	2			3			1				1		1								12	explosion
burst	6	8	6	7	3	9	5	4	7	8	3	3	2	5	5	2	1	5	2		2	5	1	99	burst
fire	1	2		2	1	3	1	2	4	2		2	2		2	1		1	1	2			2	31	fire
traffic accident (public road)	66	57	57	62	61	57	49	42	49	35	36	41	35	43	29	39	37	26	31	31	30	18	28	959	traffic accident (public road)
traffic accident (others)	4		1	3	1		1	1		1	3		1	2		1	1	2	1	1	1	3	1	29	traffic accident (others)
reaction to motion/improper motion	88	78	70	88	67	49	66	58	71	65	43	61	75	73	62	77	46	59	68	81	60	71	87	1,563	reaction to motion/improper motion
others	3	7	12	3	7	4	5	7	5	9	3	2	12	2	3	1	6	2	3	3	3	5	16	123	others
unclassifiable	2	3	3	4	1	3	1	2	2	4	3	1	2	1	1				1	2	2	2		40	unclassifiable
total	760	650	736	688	673	641	628	548	584	542	466	443	557	513	476	478	446	462	476	544	509	469	556	12,845	total

Causal agents (large) of fatal and non-fatal accidents in fuel retail in 1999-2021

[illegible]

construction machine	11	6	17	13	10	10	11	6	12	11	8	7	7	6	8	9	5	10	8	6	9	9	8	207	machine
metal manufacturing machine	3	6	5	5	2	5	3	3	2	2	4	2	2		3	2	3	3	4	2	3		2	66	metal manufacturing machine
general machine	14	16	19	8	9	6	12	10	16	6	9	9	6	9	7	5	7	8	6	5	3	6	7	203	general machine
mobile silviculture machine																									mobile silviculture machine
crane	5	6	10	7	4	10	9	5	7	7	7	1	2	4	4	2	6	3	3	5	5	3	4	119	crane
conveying machine	113	75	87	80	83	67	72	69	72	54	52	46	51	61	43	52	56	56	58	53	64	58	56	1,478	conveying machine
vehicle	132	99	100	108	101	110	97	63	72	67	72	70	64	62	56	55	57	46	41	50	47	34	44	1,647	vehicle
pressure vessel	12	11	15	7	7	4	6	6	10	4	3	5	4	7	6	6	6	8	6	3	4	2	9	151	pressure vessel
chemical facilities			1			3	2	1							1	2	1		1					12	chemical facilities
welding equipment	1			1				2		2					1			1					1	9	welding equipment
kiln, caldron	2				1					1														4	kiln, caldron
electric equipment	2	2			1	1			1	1	1	1				2				2	2		1	17	electric equipment
human power machine, tools	20	20	32	18	23	18	21	14	9	11	6	4	12	6	10	16	12	6	6	6	12	11	9	302	human power machine, tools
tools	43	49	53	61	47	59	54	52	48	69	55	47	53	49	53	50	52	65	57	64	64	64	80	1,288	tools

other equipments, facilities	28	30	17	21	20	25	14	21	35	26	15	15	17	21	22	22	17	14	19	22	24	13	24	482	other equipments, facilities
temporary buildings, establishments	196	174	194	206	211	195	181	172	167	154	157	141	188	169	156	129	147	145	156	196	183	157	176	3,950	temporary buildings, establishments
hazards, harmful substances	15	14	16	11	11	10	11	8	8	3	1	3	7	5	1	5	1	2	6	8	1	7	6	160	hazards, harmful substances
materials	16	15	25	17	21	21	20	15	11	14	8	14	10	10	7	10	6	9	7	6	5	9	10	286	materials
load	66	50	61	47	56	39	48	38	44	40	23	38	31	29	25	29	19	27	24	32	29	29	42	866	load
natural environment	25	21	35	20	23	18	25	27	20	25	17	17	50	23	33	35	21	27	32	43	26	28	26	617	natural environment
other causal agent	11	14	12	10	14	10	13	7	8	12	5	1	10	10	11	10	4	6	7	10	4	7	18	214	other causal agent
no causal agent	38	30	26	37	24	20	25	24	32	29	19	19	37	36	22	31	25	22	32	27	21	31	30	637	no causal agent
unclassifiable		3	2	7		3	2	2	4	1	2	1	3	2	2	1				2	1	1		39	unclassifiable
total	760	650	736	688	673	641	628	548	584	542	466	443	557	513	476	478	446	462	476	544	509	469	556	12,845	total

Causal agents (small) of fatal and non-fatal accidents in fuel retail in 1999-2021

[illegible]

power transmission mechanism			4		4		1	3	2	2	1	2	2	1	4	2	1	3	1	1	1			35	power transmission mechanism
circular sawing machine			1		1		1		2	1	1		1	2	1						1		1	13	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			2						1						1								1	5	chain saw
other woodworking machines															2				1	1				4	other woodworking machines
leveling, transporting or loading machine			6		4		2	3	5	5	1	3	2	2	2	2	1	5	3	1	3	2	1	53	leveling, transporting or loading machine
excavating machine			8		3		6	3	6	4	4	3	5	4	5	6	4	4	3	5	6	7	7	93	excavating machine
foundation work machine							1					1							1					3	foundation work machine
hardening machine			1							1	1													3	hardening machine

[illegible]

equipment															1									1	equipment	
other welding equipment										2														2	other welding equipment	
kiln, caldron					1					1														2	kiln, caldron	
industrial dryer																									industrial dryer	
other kiln, caldron																									other kiln, caldron	
transmission																									transmission	
electric power facilities											1										1			2	electric power facilities	
other electrical equipment					1				1	1	1					2					2	1		1	10	other electrical equipment
human power cranes			4		2		4	4	2				1	2	1	1		1	1		1	1	1	1	26	human power cranes
human power hauling equipment			9		6		4	4	4	3	2	1	5	4	5	7	6	2	2	4	3	7	3	81	human power hauling equipment	
human power machine			3		1		1		1		1	1			1		1		1	1	2		1	15	human power machine	
hand tool			16		14		12	6	2	8	3	2	6		3	8	5	3	2	1	6	3	4	104	hand tool	
ladder			37		39		42	36	38	50	36	37	41	31	40	39	38	46	42	54	51	51	61	809	ladder	
slinging tool											1		1				2	1						5	slinging tool	
other tools			16		8		12	16	10	19	18	10	11	18	13	11	12	18	15	10	13	13	19	262	other tools	
other equipment, facilities			17		20		14	21	35	26	15	15	17	21	22	22	17	14	19	22	24	13	24	378	other equipment, facilities	
scaffolding			1		2		2	2	1	1						1	1	1		1	1	1		15	scaffolding	

timbering																										timbering
stairs, landing stage			15		26		23	23	16	23	17	15	16	15	20	8	16	10	23	22	21	19	18	346		stairs, landing stage
opening			5		2		6	1	6	2	4	4	4	2	4	8	5	1	7	3	1	3	4	72		opening
roof, beam, haze, crossbeam, principal rafter			2		4		3	2	2	3		3	5	3	3	3		4	3	4	3	1	1	49		roof, beam, haze, crossbeam, principal rafter
working platform, boot board			42		39		30	29	27	28	24	20	28	21	25	16	13	16	21	20	25	16	20	460		working platform, boot board
passage			69		66		68	69	62	47	60	57	79	87	71	49	63	69	69	84	86	65	82	1,302		passage
building, establishment			44		43		30	30	38	28	40	29	37	28	22	32	28	30	23	49	29	32	32	624		building, establishment
other temporary buildings, establishments			16		29		19	16	15	22	12	13	19	13	11	12	21	14	10	13	17	20	19	311		other temporary buildings, establishments
explosive substance					1																			1		explosive substance
inflammable substance			2		3		4	4	5	1		2	3			1	1		3	3		2	2	36		inflammable substance
inflammable gas			2		4		5		2	1	1		1	1		2		1	1	3		1		25		inflammable gas
harmful substance			1					1				1	2		1			1	1			2		10		harmful substance
radiation																										radiation
other hazards, harmful substances			11		3		2	3	1	1			1	4		2			1	2	1	2	4	38		other hazards, harmful substances
metal material			10		10		10	6	3	7	4	5	3	3	2	5		6	4	3	3	5	4	93		metal material
lumber, bamboo			2		1			1				2	3	3									1	13		lumber, bamboo

stone, sand, substance			1	3		1	2						2	1	2	1		1		1	2	1	18	stone, sand, substance
other materials			12	7		9	6	8	7	4	7	4	2	4	3	5	3	2	3	1	2	4	93	other materials
load			55	53		43	34	41	38	20	34	28	24	24	27	17	26	22	31	23	28	36	604	load
machine/equipment as load			6	3		5	4	3	2	3	4	3	5	1	2	2	1	2	1	6	1	6	60	machine/equipment as load
natural ground, rock			7	4		6	1	3	1	1	1	2	2	5	1	4	2	2	2	2	2		48	natural ground, rock
standing tree							1	1	1		1				1	1	2		1	1	2		12	standing tree
water			1	2		2		2	1			26						1		1	1		37	water
abnormal environment													1	1									2	abnormal environment
high/cold temperature environment			4	3		2	3	2	3	2	3	3	4	4	2	3		1	6	4	4	7	60	high/cold temperature environment
other environments			23	14		15	22	12	19	14	12	19	16	23	31	13	23	28	34	18	19	19	374	other environments
other causal agent			12	14		13	7	8	12	5	1	10	10	11	10	4	6	7	10	4	7	18	169	other causal agent
no causal agent			26	24		25	24	32	29	19	19	37	36	22	31	25	22	32	27	21	31	30	512	no causal agent
unclassifiable			2			2	2	4	1	2	1	3	2	2	1				2	1	1		26	unclassifiable
total			736	673		628	548	584	542	466	443	557	513	476	478	446	462	476	544	509	469	556	10,106	total

Workers age of fatal and non-fatal accidents in fuel retail 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	60	46	44	56	49	34	35	24	38	24	21	14	16	16	10	13	13	18	11	18	11	14	12	597	19 years old or less
20-29	243	211	237	197	207	192	178	142	117	106	108	88	88	103	96	85	59	69	62	62	65	56	70	2,841	20-29
30-39	145	115	160	125	124	128	145	117	136	126	106	108	132	115	96	107	93	85	75	94	82	60	74	2,548	30-39
40-49	133	116	122	123	114	111	97	94	111	86	74	66	114	108	104	107	111	113	91	118	112	103	126	2,454	40-49
50-59	140	128	139	129	131	127	134	105	116	123	95	95	115	96	92	95	88	98	107	126	124	120	130	2,653	50-59
60 years old or more	39	34	34	58	48	49	39	66	66	77	62	72	92	75	78	71	82	79	130	126	115	116	144	1,752	60 years old or more
total	760	650	736	688	673	641	628	548	584	542	466	443	557	513	476	478	446	462	476	544	509	469	556	12,845	total

Workers' number of workplace of fatal and non-fatal accidents in fuel retail 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	313	272	352	326	319	283	314	248	290	240	221	197	253	219	236	194	205	238	219	269	200	204	232	5,844	9 workers or less
10-29	255	227	221	218	219	221	179	178	170	200	165	164	190	197	155	185	152	165	175	197	198	194	231	4,456	10-29
30-49	63	57	58	62	59	66	54	55	45	43	33	36	49	41	35	44	39	24	35	40	45	27	52	1,062	30-49
50-99	66	62	56	47	43	44	46	35	42	34	21	24	33	33	30	35	30	24	20	19	28	20	26	818	50-99
100-299	60	22	41	25	24	20	23	24	28	22	23	20	26	17	18	16	14	9	23	17	35	21	11	539	100-299
300 workers or more	3	10	8	10	9	7	12	8	9	3	3	2	6	6	2	4	6	2	4	2	3	3	4	126	300 workers or more
total	760	650	736	688	673	641	628	548	584	542	466	443	557	513	476	478	446	462	476	544	509	469	556	12,845	total

Month of fatal and non-fatal accidents in fuel retail 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
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January	87	71	81	72	64	67	53	85	54	73	55	42	72	48	65	71	46	55	41	60	66	48	74	1,450	January
February	82	69	68	68	60	59	63	50	54	69	43	51	40	54	46	57	41	42	53	66	43	41	56	1,275	February
March	52	67	55	65	70	66	59	45	57	40	48	50	82	42	48	42	49	45	38	48	50	34	53	1,205	March
April	74	42	48	58	55	55	56	42	55	43	31	32	42	47	37	27	40	34	35	43	39	41	27	1,003	April
May	62	54	74	61	59	45	39	46	50	39	37	21	31	36	22	33	33	27	37	41	30	30	34	941	May
June	59	49	52	54	45	56	50	33	54	25	38	39	35	34	32	38	36	30	29	44	29	35	47	943	June
July	66	46	58	55	63	41	43	33	51	50	41	33	45	43	42	29	32	31	39	38	40	26	48	993	July
August	52	43	67	43	47	44	48	44	48	38	38	31	48	37	25	38	25	40	27	31	35	48	55	952	August
September	51	51	40	46	41	63	55	39	32	41	24	24	36	37	32	26	36	26	34	49	51	38	25	897	September
October	52	47	59	50	57	56	46	31	51	37	41	43	30	33	43	29	36	31	49	47	37	27	48	980	October
November	47	64	62	63	54	47	43	47	40	41	26	35	38	50	47	42	30	41	45	34	44	39	33	1,012	November
December	76	47	72	53	58	42	73	53	38	46	44	42	58	52	37	46	42	60	49	43	45	62	56	1,194	December
total	760	650	736	688	673	641	628	548	584	542	466	443	557	513	476	478	446	462	476	544	509	469	556	12,845	total

Prefecture of fatal and non-fatal accidents in fuel retail 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	50	51	60		46		57	45	37	44	29	27	41	23	27	40	25	31	32	44	42	45	44	840	Hokkaido
Aomori	17	9	13		12		14	13	14	4	8	7	16	16	15	14	7	16	18	8	12	7	6	246	Aomori
Iwate	16	14	12		13		11	11	12	10	12	6	18	8	14	9	6	15	13	8	12	5	14	239	Iwate
Miyagi	21	13	11		19		14	15	16	16	14	16	33	25	13	12	17	19	10	15	15	18	13	345	Miyagi
Akita	13	13	13		6		9	14	8	3	10	9	11	14	7	9	6	9	6	11	10	7	7	195	Akita
Yamagata	16	10	13		10		10	14	13	15	9	11	13	12	8	8	13	7	7	16	8	12	13	238	Yamagata

Fukushima	13	15	13		16		11	12	11	17	12	18	13	15	15	8	7	16	14	10	16	19	14	285	Fukushima
Ibaraki	28	17	7		20		15	12	15	11	13	10	11	13	9	12	16	13	14	12	9	11	7	275	Ibaraki
Tochigi	16	13	9		8		18	8	11	10	3	6	11	11	5	10	9	5	9	12	16	12	17	219	Tochigi
Gunma	15	8	11		19		14	10	9	14	13	8	9	8	8	10	10	8	7	12	9	12	14	228	Gunma
Saitama	16	11	26		27		14	15	14	11	9	16	14	18	18	23	21	17	11	19	20	10	18	348	Saitama
Chiba	28	26	27		23		10	16	22	20	16	14	19	16	18	19	15	15	22	13	15	12	24	390	Chiba
Tokyo	24	27	34		30		21	19	18	25	13	17	24	21	16	19	22	18	18	19	22	9	21	437	Tokyo
Kanagawa	54	41	35		22		33	37	22	33	22	29	28	32	17	13	19	21	25	23	21	23	23	573	Kanagawa
Niigata	15	12	13		11		14	11	22	14	14	12	18	9	13	11	15	10	17	15	14	6	14	280	Niigata
Toyama	6	11	10		5		5	6	1	7	10	3	6	9	10	2	6	4	3	2	8	8	4	126	Toyama
Ishikawa	12	1	2		6		6	7	7	8	9	6	4		8	9	8	3	8	7	9	6	9	135	Ishikawa
Fukui	3	3	14		5		3	5	2	4	7	3	6	8	1	4	4	6	3	5	6	4	2	98	Fukui
Yamanashi	1	1	4		2		3	3	6	4	2	1	3	3	1	3	2	5	7	6	8	2	3	70	Yamanashi
Nagano	14	10	12		15		18	16	21	14	12	15	14	10	12	13	13	15	10	15	15	19	28	311	Nagano
Gifu	18	10	22		15		18	16	12	13	7	12	12	9	9	15	9	9	14	12	10	10	13	265	Gifu
Shizuoka	20	17	10		20		18	11	26	18	13	8	16	16	18	16	12	19	13	26	22	18	18	355	Shizuoka
Aichi	33	37	27		18		27	25	28	23	26	24	18	29	21	26	19	22	18	28	23	33	22	527	Aichi
Mie	20	17	20		12		9	14	18	9	8	6	13	12	7	7	8	7	10	5	6	10	11	229	Mie
Shiga	3	7	12		6		8	8	6	4	8	5	5	8	5	8	7	6	2	3	2	4	2	119	Shiga
Kyoto	11	13	14		7		9	8	3	9	8	14	12	11	8	6	13	6	7	8	7	6	9	189	Kyoto
Osaka	30	18	32		19		23	15	24	20	8	17	8	11	7	17	10	13	10	20	12	12	16	342	Osaka
Hyogo	19	31	37		35		21	21	26	18	9	16	17	16	10	14	15	10	15	16	14	4	10	374	Hyogo
Nara	8	7	5		4		8	2	5	7	3	3	1	7	3	2	1	6	4	5	3	4	3	91	Nara

Wakayama	9	6	9		11		8	6	8	7	8		6	3	2	7	2	3	3	5	3	1	5	112	Wakayama
Tottori	7	4	7		4		5	1	4	4	1	3	2	3	6	5	6	3	5	1	7	4	2	84	Tottori
Shimane	8	7	12		7		4	2	6	1	3	3	5	4	10	3	4		7	6	5	9	8	114	Shimane
Okayama	15	12	12		7		11	14	8	11	7	10	14	6	17	7	10	8	7	15	9	11	10	221	Okayama
Hiroshima	30	21	30		24		24	10	22	11	20	10	20	15	17	10	11	8	17	20	20	11	14	365	Hiroshima
Yamaguchi	14	7	19		15		11	15	3	4	8	5	7	5	7	2	8	8	5	12	6	7	11	179	Yamaguchi
Tokushima	5	3	3		3		5	1	5	4	1		2	5	3	2	3	2		4	2	1	5	59	Tokushima
Kagawa	13	12	10		13		9	4	5	8	10	6	11	8	8	4	5	6	3	2	3	4	4	148	Kagawa
Ehime	10	12	9		21		11	6	9	9	9	6	11	8	11	7	5	5	7	11	9	7	11	194	Ehime
Kochi	8	8	7		11		6	5	3	3	3	2	4	3	1	2	2	6	3	3	4	2	3	89	Kochi
Fukuoka	35	37	40		35		31	25	18	18	22	19	19	21	21	22	19	15	21	19	16	22	30	505	Fukuoka
Saga	13	6	6		8		5	4	11	8	5	5	7	8	5	2	6	8	10	4	10	7	7	145	Saga
Nagasaki	7	8	10		12		8	5	6	6	5	3	5	6	8	6	3	3	1	10	3	11	9	135	Nagasaki
Kumamoto	12	8	12		8		12	5	5	6	7	6	10	2	4	5	3	13	11	6	3	7	5	150	Kumamoto
Oita	13	12	8		9		7	9	14	8	2	8	4	7	4	7	6	5	7	6	7	5	10	158	Oita
Miyazaki	8	9	8		10		6	6	10	5	10	4	3	4	3	6	8	8	9	6	7	3	6	139	Miyazaki
Kagoshima	10	9	11		18		18	13	10	15	12	11	12	9	15	15	10	5	10	14	4	6	12	239	Kagoshima
Okinawa	3	6	5		6		6	8	8	9	6	3	1	6	11	7		5	3	5	5	3	5	111	Okinawa
total	760	650	736		673		628	548	584	542	466	443	557	513	476	478	446	462	476	544	509	469	556	11,516	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 fuel retail in Japan in 1999-2021

fuel retail industry Code No.080204

Type of fatal accidents in fuel retail 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			2	1		1	2	1			1	1	2		1	2		1	1		1	2	1	20	fall from height
falling to same level			1				1														1			3	falling to same level
crash											1													1	crash
struck by flying or falling object		1					2																	3	struck by flying or falling object
collapse																									collapse
crashed by	1	1	1					1	1											1	1	1		8	crashed by
caught in/between	2	2	3				1	2	2		2	2	1			1				2	1		1	22	caught in/between
cut									1															1	cut
injury to the sole of the foot																									injury to the sole of the foot
drown											1		18									1		20	drown

contact to high/low-temperature																									contact to high/low-temperature
contact to harmful substance	1		1	1																				3	contact to harmful substance
electric shock																									electric shock
explosion	1																							1	explosion
burst															1	1		1						3	burst
fire													2											2	fire
traffic accident (public road)	6	7	9	2	2	1	6	5	1	2	2	1	1	1	1		2	2	3	1		1		56	traffic accident (public road)
traffic accident (others)				1																				1	traffic accident (others)
reaction to motion/improper motion																									reaction to motion/improper motion
others										1		1	8				1			1				12	others
unclassifiable						1						1												2	unclassifiable
total	11	11	17	5	2	3	12	9	5	3	7	6	32	1	3	4	3	4	4	5	4	5	2	158	total

Causal agents (large) of fatal accidents in fuel retail 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		1	3					1	1			1	1			1									9	machine
crane, conveying machine	9	8	10	4	2	1	7	7	4	2	5	2	1	1	1	1	2	3	3	4	3	1	1		82	crane, conveying machine
other equipment		2	2			1					1		1		1	2			1			1	1		13	other equipment
temporary buildings, establishments			1				2	1			1	1	1		1			1			1	1			11	temporary buildings, establishments
substance, material	2		1	1			1																		5	substance, material
load							1																		1	load
environment							1			1			28									2			32	environment
others						1						2					1			1					5	others
total	11	11	17	5	2	3	12	9	5	3	7	6	32	1	3	4	3	4	4	5	4	5	2		158	total

Causal agents (middle) of fatal accidents in fuel retail 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																									power transmission mechanism

[illegible]

human power machine, tools		1																					1	human power machine, tools	
tools			2			1				1		1			2			1			1	1	10	tools	
other equipments, facilities		1												1									2	other equipments, facilities	
temporary buildings, establishments			1				2	1			1	1	1		1			1			1	1		11	temporary buildings, establishments
hazards, harmful substances	2		1	1																				4	hazards, harmful substances
materials							1																	1	materials
load							1																	1	load
natural environment							1			1			28									2		32	natural environment
other causal agent																									other causal agent
no causal agent												1				1				1				3	no causal agent
unclassifiable						1						1												2	unclassifiable
total	11	11	17	5	2	3	12	9	5	3	7	6	32	1	3	4	3	4	4	5	4	5	2	158	total

Causal agents (small) of fatal accidents in fuel retail in 1999-2021

[illegible]

foundation work machine																									foundation work machine
hardening machine																									hardening machine
demolition machine		1																					1		demolition machine
vehicle for high lift work																									vehicle for high lift work
other construction machines																									other construction machines
lathe																									lathe
drill press, milling machine																									drill press, milling machine
grinding machine, buffing machine																									grinding machine, buffing machine
power press																									power press
forging pressure hammer																									forging pressure hammer
shearing machine																									shearing machine
other metal manufacturing machines																									other metal manufacturing machines
centrifugal machine																									centrifugal machine
mixer, grinder																									mixer, grinder
roll machine (except printingroll machine)																									roll machine (except printingroll machine)

[illegible]

[illegible]

[illegible]

[illegible]

harmful substances																									harmful substances
metal material							1																	1	metal material
lumber, bamboo																									lumber, bamboo
stone, sand, substance																									stone, sand, substance
other materials																									other materials
load							1																	1	load
machine/equipment as load																									machine/equipment as load
natural ground, rock																									natural ground, rock
standing tree																									standing tree
water													26										1	27	water
abnormal environment																									abnormal environment
high/cold temperature environment																									high/cold temperature environment
other environments							1			1			2										1	5	other environments
other causal agent																									other causal agent
no causal agent												1					1			1				3	no causal agent
unclassifiable						1						1												2	unclassifiable
total	11	11	17	5	2	3	12	9	5	3	7	6	32	1	3	4	3	4	4	5	4	5	2	158	total

Workers age of fatal accidents in fuel retail 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	5	1	3	1			1						1											12	19 years old or less
20-29	1	3	5				3	4	2		2	2	1	1	1									25	20-29
30-39		3	2	2		1	2		2				10					1						23	30-39
40-49	3	2	1		1	1		1	1		2		10		2	1		1		1				27	40-49
50-59	2	2	3	2	1	1	5	3		1	3	2	5			3	2	1	2	1	2	1	2	44	50-59
60 years old or more			3				1	1		2		2	5				1	1	2	3	2	4		27	60 years old or more
total	11	11	17	5	2	3	12	9	5	3	7	6	32	1	3	4	3	4	4	5	4	5	2	158	total

Workers' number of workplace of fatal accidents in fuel retail 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	4	7	7	3	1	1	8	7	2	2	6	4	22	1	1	4	1	4	2	3	4	4	1	99	9 workers or less
10-29	5	3	7	2	1	1	4	1	3	1	1	1	6		2		1		1	2		1		43	10-29
30-49	1	1	2			1		1					1				1		1				1	10	30-49
50-99	1		1																					2	50-99
100-299												1	3											4	100-299
300 workers or more																									300 workers or more
total	11	11	17	5	2	3	12	9	5	3	7	6	32	1	3	4	3	4	4	5	4	5	2	158	total

Month of fatal accidents in fuel retail in 1999-2021

[illegible]

Nara																									Nara
Wakayama								2																2	Wakayama
Tottori							1				1													2	Tottori
Shimane	1															1								2	Shimane
Okayama			1								1											1		3	Okayama
Hiroshima	1										1													2	Hiroshima
Yamaguchi								2																2	Yamaguchi
Tokushima									1															1	Tokushima
Kagawa							1								1									2	Kagawa
Ehime																									Ehime
Kochi																									Kochi
Fukuoka	1		1																					2	Fukuoka
Saga																						1		1	Saga
Nagasaki				1																				1	Nagasaki
Kumamoto			1																					1	Kumamoto
Oita	1							1						1										3	Oita
Miyazaki	1										1													2	Miyazaki
Kagoshima							1				1					1						1		4	Kagoshima
Okinawa												1												1	Okinawa
total	11	11	17	5	2	3	12	9	5	3	7	6	32	1	3	4	3	4	4	5	4	5	2	158	total

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

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